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HIGH FIDELITY'S
Buying Guide to Stereo Components

1980 Edition

5 KEYS TO SUCCESSFUL STEREO

• Which Components to Buy First
• How Much Should You Spend?
• What One Tape Type is Best?
• Secrets of Super-Sounding Stereo
• Simple System Repairs You Can Make

PLUS SPECIAL REPORT

How to Stretch Your Car Stereo Dollar
Ohm's Law 7:
Big bass sound can come from small bookshelf loudspeakers.

Among loudspeaker manufacturers, traditional wisdom has it that you need a big woofer in a big cabinet for really deep bass.

Once again, Ohm has defied the traditional laws of loudspeaker design.

The Ohm L is a compact, reasonably-priced, vented loudspeaker which rests comfortably on a bookshelf.

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But there's more to an Ohm L than superlative bass and high efficiency in an easy-to-live-with size. Using time/phase matched drivers, and Ohm's phase consistent crossover, the L achieves a highly coherent sound that many expensive, widely-advertised "phase aligned" systems can only envy.

Here's what the audio critics have said about the Ohm L:

High Fidelity Magazine:
"In listening tests, the Ohm L's aspirations exceeded those expected of its price class by a notable margin. The overall sound is solid, yet transparent and detailed: Deep bass is tight, with a sense of ease that is maintained to relatively high listening levels...Stereo imaging is excellent - to the point where the sound seems totally detached from the speakers."

Sound Advice:
"This speaker also rates high in depth, ambient reproduction, and airiness...the L is a very musical speaker, does a good job with the delicacy of orchestral and choral music, has great dynamic punch, is quite efficient (8 watts for 100 dB at 3'), sounds good in a small room... and absolutely blooms in a large room (output to spare)."

Stereo Review:
"The Ohm L, though diminutive beside many of the floor-standing or oversize 'bookshelf' speakers we have seen, sounded in every way like a full-size system. Blindfolded, one would never guess its compact dimensions." (Copyright 1977 by the Ziff-Davis Publishing Co. Reprinted from Stereo Review June, 1977 by permission. All rights reserved.)

Sound (Canada):
"...This is a loudspeaker which, despite its small size, manages to sound large...The high frequencies are crisp and one listener remarked that one could count the wires on the brushes. The low frequencies are well-controlled and there is a very good compromise between sensitivity, damping, and low bass. The lows are strong without deteriorating into the one note variety and deep without becoming lost by overdamping."

For 13 complete reviews, and full specifications, please write us at Ohm Acoustics Corp., 241 Taaffe Place, Brooklyn, N.Y. 11205.

We make loudspeakers correctly.
High Fidelity's Buying Guide to Stereo Components

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What’s in it for you? Plenty!

For this, our second edition of HIGH FIDELITY’S BUYING GUIDE TO STEREO COMPONENTS, our staff of top audio writers has focused on key information you should know to get the most from a stereo system—both when you buy it and after you get it home.

The first step, of course, is figuring out what equipment to buy, how much to spend on it, and where to buy it. Ivan Berger takes you step-by-step through the process of deciding how much money to apportion for each component. Then he suggests what is the best strategy to use when purchasing a stereo system that is keeping with your budget.

All the best equipment in the world won’t sound its best unless it’s connected and set up correctly. Simply reversing some wires or moving a speaker a few inches here or there may give your system a certain sparkle. Ed Foster has dozens of timely tips on this subject in his article “Secrets of Super Sounding Stereo.”

And what happens when you turn the power switch on and nothing happens? Before you repack your equipment and rush it off to the repair shop, consider some of the home remedies Howard Roberson discusses in “How to Troubleshoot Your Stereo System.”

If you plan to use a cassette recorder in your stereo setup, sooner or later you’ll have to decide what tape to use. It’s not just a case of buying the most expensive tape. That may be a waste of money. Larry Zide looks at the factors affecting your choice in “What One Tape Type is Best?”

Car stereo has literally exploded during the past year. It’s not difficult to spend as much on a system for your car as you have for your home. But you’re much more on your own with car stereo components, as Robert Angus points out in “The Right Way to Buy Car Stereo.”

Whatever you’re in the market for—audio, video, or car components—you need information on which to base your decisions. Our massive 200-page buying guide section gives you a head start.

Specifications have been collected on thousands of new products from hundreds of manufacturers and assembled into more than a dozen categories. Our introduction to the section explains how you can best make use of the material.

Many of you who purchased last year’s edition have written us, saying what a valuable buying/reference book it has proven. This year’s edition is even more comprehensive and fact-filled, and we think it will prove a worthy addition to your bookshelf. —WT
Bought expensive speakers?

Better not listen to ours!

However, if you’re looking for incredible sounding speakers at an affordable price, by all means do! You will find that for less money than you planned on spending you can get much better sounding speakers than you dreamed you could ever afford. Polk Audio loudspeakers have received worldwide praise because people recognize that they offer remarkable value. Critical acclaim such as the following makes it clear why Polk speakers have become famous for offering the best possible sound for the money.

"Polk Audio is a small, Maryland-based company whose speakers enjoy an enviable reputation among audiophiles who would prefer to own such exotica as the Beveridge System 2SW-1 ($7000 per pair) or Pyramid Metronome ($5200 per pair) but don’t have the golden wallets to match their golden ears." The Complete Buyer’s Guide to Stereo/Hi-Fi Equipment

"Audio experts know that the price of a speaker is not always directly proportional to its quality. Nowhere at CES was that fact more dramatically demonstrated than in room 900 of the Pick Congress where the folks from Polk Audio of Baltimore were demonstrating their speaker line..." High Fidelity Trade News

"They (Polk 10’s) are a high definition speaker system deserving the very best associated electronics. And at their price, they are simply a steal!" Audio Advisor-Audiogram

Polk Audio loudspeakers, starting around $125 each, are available at the world's finest hi-fi stores. Write us for complete information on our products and the location of the Polk Audio dealer nearest you. Polk Audio Inc. 1205 S. Carey St., Baltimore, Md. 21230 Dept. B6 Distributed in Canada by Edon Acoustics — Ottawa

CIRCLE 16 ON READER-SERVICE CARD
There is only one real pioneer
It's Sony.

In 1954, a fledgling Japanese tape recorder manufacturer visited America to investigate a new device called the transistor. At first, things were less than encouraging. "Transistors are only good for hearing aids," they were told. "And besides, they can't be mass produced."

Undeterred, the Japanese representatives returned to Tokyo. Thirty-six months later, the world saw its first pocket transistor radio. Followed by the world's first all-transistor FM radio.

And, partially as a sign of their continuing dedication to audio, the Tokyo Telecommunications Engineering Corporation adapted the Latin word for sound—"sonus"—and changed its name to Sony.

In the years that have followed, Sony has never faltered in its dedication to technological innovation. And we'd be loathe to estimate how often our advances have ended up on the circuit boards and front panels of our competitors' equipment as "technological breakthroughs."

But enough of the past. The hi-fi components featured here stand as eloquent proof that Sony—the company that virtually founded the era of transistorized high fidelity—is still at its very forefront.

The V5 receiver:
To this day, only Sony offers Sony quality.

Unlike hi-fi receivers designed to impress you with a facade of magic buttons and switches, Sony receivers are designed to impress you with rich sound.

Case in point: the V5.

In technical terms, the V5 delivers 85 watts per channel at 8 ohms from 20 to 20,000 hertz with no more than 0.07% total harmonic distortion.

In human terms, this means the receiver can reproduce every note of music any instrument can play with no audible distortion. And it can power two sets of speakers without straining.

But that's only the beginning.

Instead of using the mundane power transformers found in competitors' products, the V5 utilizes more expensive toroidal core transformers that provide richer bass.

A few Sony Audio firsts:
- 1949: Obtained patent on the basic magnetic tape-recording system.
- 1952: Developed stereo broadcasting in Japan.
- 1955: First consumer stereo tape recorder in Japan.
- 1959: Invented "Tunnel Diode," basis of all high-speed, low-distortion semiconductors.
- 1965: First all-silicon solid state amplifier.
- 1966: The first servo-controlled turntable. Forerunner of quartz-locked turntables.
- 1968: First electronic end of record sensor.
- 1973: Invented the ferrite tape head.
- 1973: First to manufacture ferrichrome tape.
- 1973: Dr. Esaki wins Nobel Prize in Physics for "Tunnel Diode."
- 1975: First turntable with carbon-fiber tone arm.
- 1975: The world's first consumer digital audio processor.
- 1977: First consumer amplifier with pulse power supply.
- 1979: Patented liquid crystal recording meters.

1957: The world's first pocket transistor radio.
1954: The first Japanese transistor.
1950: Japan's first tape recorder, the "Type G."
1979: The V5 receiver: Designed for people who appreciate value as much as they appreciate sound.
in high fidelity.

Instead of cutting corners by using a flimsy pressboard bottom, we've cut interference by encasing the entire receiver in metal.
And for better FM reception, instead of using the standard three- or four-gang variable-tuning capacitor, we've opted for a higher quality five-gang model.
All of which explains why if you pay a few dollars less for one of our competitors' receivers, it's probably because you're getting less receiver.

The new Sony cassette decks:
The state of the art, from the people who invented it.

Since we introduced tape recording to Japan in 1950, Sony has sold millions of tape decks.
A quick look at our new TC-K65 cassette deck will explain why.
Like all two-motor cassette decks, the TC-K65 is designed for low wow and flutter. Unlike others, however, we feature "brushless and slotless" motors that reduce this problem to the point of being inaudible.
Instead of using just any tape head material, the TC-K65 features Sony "Sendust and Ferrite" heads that combine wide response with extreme durability.
Instead of using an ordinary metering system, we've developed a 16-segment LED meter whose life expectancy far exceeds the fancy blue fluorescent models other companies are currently touting.
And there's also a "Random Music Sensor" for preprogramming tapes, settings for metal tape, remote control and timer capabilities, and the kind of high-quality D.C. tape head amplifier you'll find in almost no one else's tape decks.

But you really haven't heard anything yet.
Unfortunately, we don't have enough space here to tell you the complete Sony hi-fi story. Like the way a recent dealer survey rated our turntables #1 in value and performance.
Or the way our new separate tuners and amplifiers (not to mention micro components) utilize highly advanced light-weight pulse power supplies whose levels of distortion are virtually unmeasurable.
Or how they use a NASA developed "Thermo-Dynamic Cooling System" that eliminates heat, excess wire and the distortion and interference that normally accompany them.
If you'd like to hear more about the complete line of Sony hi-fi components (or if you need the name of your nearest dealer) write to Sony, P.O. Box CN 04050, Trenton, New Jersey 08650.
In the meantime, if somebody makes noise about innovations in high fidelity, think of the biggest pioneer in audio. And remember Sony.

SONY AUDIO
We've never put our name on anything that wasn't the best.
The high bias standard.

In the past few years, these fine deck manufacturers have helped to push the cassette medium ever closer to the ultimate boundaries of high fidelity. Today, their best decks can produce results that are virtually indistinguishable from those of the best reel-to-reel machines.

Through all of their technical breakthroughs, they've had one thing in common. They all use TDK SA as their reference tape for the high bias position. These manufacturers wanted a tape that could extract every last drop of performance from their decks and they chose SA.

Which makes SA the logical choice for home use; the best way to be sure you get all the sound you've paid for. But sound isn't the only reason SA is the high bias standard. Its super-precision mechanism is the most advanced and reliable TDK has ever made — and we've been backing our cassettes with a full lifetime warranty* longer than anyone else in hi-fi — more than 10 years.

So if you would like to raise your own recording standards, simply switch to the tape that's become a recording legend — TDK SA. TDK Electronics Corp., Garden City, NY 11530.

And to make sure that kind of performance is duplicated by each and every deck that comes off the assembly line, these manufacturers use SA to align their decks before they leave the factory.
A/B test  A listening test in which two similar audio devices (or program sources) are compared by rapidly switching between them while the rest of the system is unchanged, except for relative volume adjustment if needed. A/B tests are particularly germane in evaluating loudspeakers, although they also can reveal audible differences in any sound equipment.

alignment  In a tape recorder, the physical positioning of a tape head relative to the tape itself. Alignment in all respects must conform to rigid requirements in order for a recorder to function properly. In an FM tuner, critical circuit adjustments that are needed for optimum performance.

automatic reverse  Ability of some four-track stereo tape recorders to play the second pair of stereo tracks automatically, in the reverse direction, without need to interchange the empty and full reels after the first pair of stereo tracks has been played.

azimuth  The angle of a tape head's pole-piece slot relative to the direction of tape travel. See "alignment."

balanced output  An output, as from a microphone or antenna, in which the leads that carry the signal voltage are arranged symmetrically above and below a third neutral circuit or ground. This arrangement, in which a third conductor at ground potential is sometimes used, tends to cancel any noise picked up by long lengths of interconnecting cable.

bias  1. Antiskating; a force that counteracts a pivoted arm's tendency to swing inward. 2. A critical amount of voltage applied to a device to prepare it for correct performance. In tape recording, the bias is a steady-state magnetic field applied to the tape to enable it to respond more completely and more accurately to the fluctuating magnetic impulses of the audio signal. Although sometimes a DC (fixed-magnetic-polarity) field, the usual bias is provided by an ultrasonic alternating-polarity field of 50,000 Hz or higher frequency.

bidirectional microphone  A microphone which is equally sensitive to sounds arriving at it from in front or in back but discriminates against sounds arriving at it from the sides.

capstan  The motor-driven spindle that feeds a tape at constant speed past the machine's heads. The tape is usually gripped between the capstan and a soft-surfaced pinch wheel or "idler" to minimize slippage at the capstan.

capture ratio  A tuner's ability, expressed in decibels, to select the stronger of two signals at or near the same frequency. The lower the number, the better.

cardioid microphone  An essentially unidirectional microphone having a heart-shaped "polar pattern."

channel separation  The degree to which the signal in any one of a set of channels is kept apart from the signal in others. Expressed in decibels, the greater the number, the more the separation.

coercivity  A measure of the amount of applied magnetic field (of opposite polarity) that is necessary to restore a magnetized body to a state of zero magnetism. High-coercivity tapes exhibit less tendency toward self-erasure and thus have enhanced high-frequency response characteristics, but they are harder to erase completely.

compression  A device that narrows the dynamic range of a signal, the opposite of an expander.

decibel  Abbreviated dB, the decibel is a unit used to compare levels of signal power, defined so that power in decibels equal 10 times the logarithm (base 10) of the ratio of signal power levels. This equality of levels is stated as 0 dB, and 0 dB also indicates a reference level from which changes are measured. Note that a two-to-one ratio of power is 3 dB. The smallest change the ear can hear is said to be 1 dB, while a two-to-one change in apparent loudness is about 10 dB.

DIN  Letters stand for Deutsche Industrie Norm and designate performance standards followed in Europe as well as the type...
It survived acid rock, four years of college and two kids.
Now you’re ready for JVC.

Face it. Your old compact stereo has had it.

It played you some of the best music ever put on records, but now your ears and your bank account are ready for something better.

Not just shinier and louder, though. You want a stereo that gives you more sound quality. Not just more complication.

Now you’re ready for JVC.

Because while our competitors were concerned with outdoing each other, we’ve been concerned with giving you features you could use, performance you could afford, and durability that’s legendary in the hi-fi world.

Since we invented Quartz-Lock (the most accurate turntable drive system in the world), we can offer you one of the lowest price Quartz turntables on the market. We knew you weren’t a recording engineer so we developed a Multi-Peak L.E.D. metering system that lets anyone make perfect cassette recordings. And we packed our equipment with sensible safeguards like a Triple Power Protection circuit that keeps your speakers and amplifier from getting zapped. As well as circuitry that pulls in FM better than you’ve ever heard it on your compact.

So before you descend into the maelstrom of hype, hearsay and technojargon, call 800-221-7502 (in NY State call 212-476-8300) and discover your nearest JVC dealer. Or write to US JVC Corp., 58-75 Queens Midtown Expressway, Maspeth, NY 11378.

He’ll open up a world of sound so wide you may foresake TV and reading for the joy of discovering new sounds on your old records, and amazing sounds on new records.

When you’re ready for a world of music that real, you’re ready for JVC.

Shown: A separates system with the A-57 integrated amplifier (50w/ch 20-20kHz, 8-ohm, 0.05%THD), TD-5 AM/FM tuner, QL-2 Quartz-Locked turntable, KD-A3 Metal-compatible cassette deck, SK-700MK II 3-way speakers in an LK-C:342 roll-around rack with smoked glass door. A receiver system with the R-5S receiver (20w/ch, 20-20kHz, 8-ohms, 0.05%THD) L-A11 beltdrive automatic turntable, KD-10 Dolby® cassette deck, SK-500MK II 2-way speakers in an LK-G142 rack. *Dolby is a trademark of Dolby Laboratories.

CIRCLE 6 ON READER-SERVICE CARD
HEADPHONES THAT PUT THE MOST EXPENSIVE SPEAKER SYSTEMS TO SHAME.

When you listen to Sony headphones, you'll share an intimacy with the music you've probably never experienced before; you'll hear subtleties you've missed with most speakers. Admittedly, this may sound rather extraordinary. But then, so do our headphones.

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CIRCLE 4 ON READER-SERVICE CARD

HIGH FIDELITY'S BUYING GUIDE TO STEREO COMPONENTS
Kenwood has consistently made the significant technical advancements that make a difference you can hear. Like the first introduction of DC into integrated amplifiers.

And now, Kenwood does it again. Our exclusive Hi-Speed amplifier has actually changed the standards by which high fidelity is measured. It reacts much faster to changes in the music, particularly in the mid to upper frequencies. So all the subtleties of the music come through—even an individual singer in a backup vocal group.

In our tuners, we've developed Pulse-Count Detector circuitry to digitally reduce FM distortion by half while significantly reducing background noise. You'll hear the difference in your FM reception as a more distinct, clearer sound. And only Kenwood has it.

In fact, every Kenwood component has exclusive features that improve sound quality. Like turntables with resin-concrete bases that virtually eliminate unwanted vibrations, and an extra-heavy, high inertia platter that keeps the record speed constant. And our dual-belt cassette decks that use a unique, extra-heavy flywheel for constant tape speed and better reliability.

Your Kenwood dealer can demonstrate how these features actually improve the tonal quality of your music.

And that's what great performance is all about.

KENWOOD
For the Kenwood dealer nearest you, see your Yellow Pages, or write Kenwood, P.O. Box 6213, Carson, CA 90749
In Canada: Magnasonic Canada, Ltd.

CIRCLE 7 ON READER-SERVICE CARD
It's called The System, from Mitsubishi.

And we don't call it ritzy simply to justify its price.

Because as anyone who knows woofers from tweeters will tell you, there's more to ritzy than mere expense.

There's a pre-amplifier with complete dual-monaural construction and a built-in head amp for moving coil phonograph cartridges.

A 75 watt, 100 watt, or 150 watt amplifier, each capable of 80 dB inter-channel separation, a high signal-to-noise ratio and low distortion.

A Logic Control Turntable that breaks every record in the industry for completely automatic operation. Not to mention its specially designed high-resolution, low-resonance tone arm for faultless sound.

A three-head, closed loop, dual-capstan drive tape deck, complete with feather touch controls that let you record professional quality cassette tapes.

Impressed? There's more.

An AM/FM stereo tuner with a quartz-PLL synthesizer, plus LED's and digital readout, for the ultimate in tuning accuracy and convenience.

Peak meters that can dock with the amplifier and monitor your equipment channel by channel. So you can maintain perfect balance and protect the system from overload.

And last, but not least ritzy, our exclusive new MS-40 loudspeakers.

They completely eliminate the spurious vibrations caused by conventional paper cone speakers, because they aren't made from paper.

Instead, we make our cone with an aluminum honeycomb core in a sandwich of glass fiber. The honeycomb structure is rigid enough to maintain its shape, yet light enough to be exceptionally responsive.

Put each of these remarkable components together in one handsome rack, and you've got The System.

One name. One look. From one company, with one standard of quality. Excellence.

MITSUBISHI AUDIO SYSTEMS
extra-play Originally, all recording tapes were 1½ mils thick, and a 7-inch reel would accommodate about 1200 feet of this for a half-hour of continuous recording at 7½ ips. The later extra-play tapes are 1 mil thick, and allow for 45 minutes of recording, or 15 minutes “extra.”

flutter Rapidly-repeating fluctuations in tape or turntable speed that introduce spurious burbling, quivering or shimmering variations in the pitch of the reproduced sound. Flutter is effectively a more rapid form of “wow,” and modern measurements of flutter include the “wow” content.

frequency response The measure of ability to pass signals of different frequency without affecting their relative strengths. This is shown as a graph or “curve” which assumes input signals equally strong at all frequencies, and plots their output intensities against a decibel scale. The ideal “curve” is a straight line (perfectly “flat” response). Frequency response generally is stated with specific decibel limits indicating the maximum deviations from flat response. For instance, 30 Hz to 18 kHz, ±2 db means that the audio device or system will not change the relative intensities of any frequencies within that range by more than 2 dB above or 2 dB below the ideal zero-db (volume unchanged) point.

gain Any increase in the strength of an electrical signal, as takes place in an amplifier. Gain is measured as a ratio, often expressed in decibels. A gain of 6 dB increases an input voltage to an output twice as large or quadruples the power.

harmonic distortion A form of distortion characterized by the addition of harmonic overtones to the signal. Expressed as a percentage, the lower the number, the better.

impedance Essentially, opposition to the flow of alternating current and consisting of “pure resistance” combined with inductive or capacitive reactances. Impedance values are specified for some components (such as microphones or loudspeakers) when it is important for their proper functioning that the interconnection with another component provides the specified termination or load impedance, expressed in ohms.

intermodulation (IM) distortion The introduction of spurious signals (sum and difference frequencies and harmonics thereof) as the result of interaction between two or more simultaneously reproduced tones, causing a smearing or veiling of the sound. Expressed as a percentage; the lower the number, the better.

limiter An amplifier whose output signal has a constant amplitude when the input signal is above a certain reference level, sometimes used to reduce the intensity of very-short-duration peaks (transient peaks) in an audio signal without audibly affecting dynamic range.

loudness Generally synonymous with volume, which is the intensity of perceived sound. “Loudness compensation” refers to equalization applied to a signal according to its volume in order to compensate for the ear’s tendency to change frequency response at different listening levels. Loudness compensation typically boosts the bass, and sometimes the treble to a lesser degree.

monitor head A playback head that is separate from the record head, enabling the recordist to listen to what is coming off the tape a fraction of a second after it has been recorded. Without a monitor head, a tape must be recorded to its end and then rewound and played before the recordist can evaluate the tape.

peak bias That amount of bias current through the record head which produces maximum output from a tape at low and middle frequencies, for a given amount of audio signal to the tape.

phase-locked loop A device consisting of an oscillator locked in by a feedback control system so that it follows a reference (which may be an input signal), useful for FM demodulation, and stereo or CD-4 demodulation. It is extremely linear and wide-banded, and seldom needs realignment with aging.

power output The signal produced by an amplifier into a given load when fed with a given input signal. Power, expressed in watts, should be stated with reference to several qualifying factors—the impedance...
of the load: the frequency at which (or the range of frequencies over which) the power is derived; the amount of distortion present for a given power output level; whether the power stated is for one channel or the sum of all channels. The most accurate and rigorously derived power figure is for the average sine-wave power (also termed "continuous" or "RMS" power).

preamplifier A special amplifier that raises very low signal voltage (as from a microphone) to the more or less standard raises very low signal voltage (as from a power is derived: the amount of distortion of the load; the frequency at which (or the present for a given power output level; a bass reflex system uses a critically dimensioned port (and likewise a crossover to extend the bass response. An infinite baffle totally encloses the speaker to suppress its wave, thereby permitting the speaker to respond down to its inherent resonant frequency. An acoustic or air-suspension system is relatively smaller than the previous types and involves a very loosely suspended woofer whose resonance is raised to the audible range and whose diaphragm motion is controlled by air trapped within the enclosure. A folded horn adds a constantly expanding horn structure to the front and/or rear of a diaphragm to couple its output and "VTF tracks it" action to the room. A transmission-line system (actually a variation of the former labyrinth system) loads a diaphragm with a critically dimensioned duct that smooths the response and helps extend the low-frequency range.

rumble A low-frequency noise introduced by motor and/or transmission system of a recording system, measured as a minus-decibel figure with reference to a standard test-tone level; the lower the figure, the better.

selectivity Tuner's ability to choose a station despite strong signals on adjacent channels (0.02 MHz away on the dial) or on alternate channels (0.05 MHz away). Expressed in decibels, the higher the number, the better.

sensitivity A measure of a device's input signal requirement to produce a desired output. FM sensitivity refers to the RF (radio frequency) signal, in microvolts, needed to yield an audio output of a certain level and without exceeding a certain distortion; the lower this number, the better. Amplifier sensitivity refers to the audio signal, in volts or millivolts, needed to produce rated voltage or power output without exceeding a rated level. "High" sensitivity indicates a relatively low input signal requirement. For practical purposes, then, the term "sensitivity"—especially when applied to loudspeakers and headphones—can be regarded as indicating relative "efficiency." Thus, a "high-efficiency" loudspeaker needs relatively less amplifier signal than a "low-efficiency" speaker in order to produce a comparable output level.

separation The degree to which the signals in the various channels of a stereo or quadraphonic sound system are kept isolated from one another.

signal-to-noise ratio A ratio, often abbreviated as S/N, between a device's or system's output signal intensity and its accompanying noise content. In tape recording, for instance, the S/N ratio usually lies between the permissible limit of distortion due to saturation of the tape, and the background hiss of the tape and/or the recorder's circuitry. S/N is expressed in decibels, the greater the number, the better.

skating Tendency of a pivoted tonearm to pull toward the center spindle as a result of the friction between stylus tip and record surface. Antiskating bias or compensation adds sufficient force to overcome this tendency and reduces distortion.

speaker enclosure A structure or cabinet specifically designed to house a loudspeaker in order to load its output and generally aid in its response. A bass reflex system uses a critically dimensioned port (and likewise a crossover to extend the bass response. An infinite baffle totally encloses the speaker to suppress its wave, thereby permitting the speaker to respond down to its inherent resonant frequency. An acoustic or air-suspension system is relatively smaller than the previous types and involves a very loosely suspended woofer whose resonance is raised to the audible range and whose diaphragm motion is controlled by air trapped within the enclosure. A folded horn adds a constantly expanding horn structure to the front and/or rear of a diaphragm to couple its output and "VTF tracks it" action to the room. A transmission-line system (actually a variation of the former labyrinth system) loads a diaphragm with a critically dimensioned duct that smooths the response and helps extend the low-frequency range.

tracking angle, vertical The angle between the disc surface and an imaginary line drawn from the stylus tip to the cantilever pivot within the cartridge. The angle of 15 degrees has become the standard for the cutting, and thus the playing of records. The closer a pickup conforms to this angle, the better.

tracking force, vertical Sometimes abbreviated VTF, this is a measure, in grams, of the amount of downward force required by a phonograph pickup to accurately track a record groove. Insufficient VTF causes the stylus to lose contact with the groove, while "too VTF causes it to bear down too heavily. Either departure from the right amount of VTF causes distortion and hastens record and stylus assembly wear.

VU meter Strictly, a recording-level meter whose indicator needle's motion is damped according to a specified standard, to allow it to respond at a certain speed to sudden impulses without overshooting the mark by more than a certain amount. The term is loosely applied to practically any record-level indicator that uses an indicator needle.

wavelength The distance between the beginning and the end of a complete cycle of any spatial periodic phenomenon. In acoustics it is the distance occupied by one cycle of a repetitive sound traveling through the air at a velocity of about 1,100 feet per second. A 1 kHz tone has a wavelength of one foot. In magnetic recording, it refers to the length of tape occupied by a full cycle of recorded signal. For instance, at 7½ ips tape speed, a recorded frequency of 1 kHz has a wavelength on the tape, of 0.0075 inches.

wow A relatively slow variation in the pitch of a reproduced signal, due to similar variations in the speed of the tape or disc. Wow may be triggered by general speed of a tape transport or turntable, or sometimes by tone arm's inability to fully track a severely warped disc. See also "flutter."
Sansui is breaking up a very successful relationship. The TU-717 has a new mate: The AU-719.

Sansui has just introduced an exciting new integrated amplifier, the AU-719. It represents the very latest developments in audio and electronics technology. It is so good, in fact, that it has replaced its rave-reviewed, best-selling predecessor as the partner of the TU-717 tuner.

The TU-717’s performance has been extravagantly praised by professional critics and knowledgeable consumers alike. With advanced features like switchable IF bandwidth and specs like 81dB signal-to-noise ratio and 0.06% THD, it’s only natural.

We expect the tuner’s new mate to receive a tremendous reception and set industry amplifier standards for a long time to come. Here’s why.

**INTRODUCING DD/DC**

What particularly distinguishes the new AU-719 amp is Sansui’s patent-pending DD/DC (Diamond Differential/DC) circuitry that provides the extremely high drive current needed to reduce THD by adding large amounts of negative feedback without compromising slew rate or adding TIM.

Slew rate refers to an amplifier’s ability to respond to rapidly changing musical signals. The slew rate of the AU-719 is an astounding 170V/μSec.

**MAGNIFICENT MUSIC**

Many modern amplifiers have extremely low total harmonic distortion specs. And that’s important. But THD is measured with steady test signals and is not really representative of an amp’s ability to decl with music. Sansui alone, with its DD/DC technology, is able to provide both low THD and lowest TIM simultaneously. Instead of the harsh metallic sound you sometimes get on a conventional amp when the musical signals are complex, with the AU-719 you hear only magnificent music.

THD is less than 0.015% at full rated power of 90w/channel, min. RMS, both channels into 8 ohms from 10 - 20,000 Hz. Overall frequency response is awesome: DC - 400,000 Hz, +0, -3dB. Hum and noise are a super-silent - 100dB on aux and - 88dB on phono. The phono equalizer, which adheres to the standard RIAA curve within ±0.2dB from 20 - 20,000 Hz, also uses our unique DD/DC circuit for record reproduction that’s second-to-none.

**CONTROL YOURSELF**

The unit is equipped with a full complement of versatile controls and connections to create the system and sound that’s right for you, including two phono and two tape inputs, defeatable tone controls with switchable center frequencies, deck-to-deck tape dubbing and a very convenient 20 dB muting switch.

Audition the new AU-719 and matching TU-717 at your authorized Sansui dealer. We think it will be the start of a very successful relationship.
Buying your first stereo system, or just considering some additions or replacements to your current setup? Either way, you probably already
realize that knowing what to spend and how to spend it conflict with each component's demands for your hi-fi dollar. Spend a little more on one piece and there's less to spend elsewhere. And prices for a particular component type—speakers, for example—can cover a wide range, from $100 or so to several thousand. So how do you begin?

Start by setting up a temporary budget for the entire system. If this is your first system, keep it as basic as possible. Remember, you want good sound; you can add extras later. A good rule of thumb is to allocate one-third of your budget to your speaker system (the most critical element), one-third to a receiver, one-fourth to your turntable and phono cartridge, and the remaining for accessories, etc. (If you're getting a separate amplifier and tuner instead of a receiver, spend about one-fourth of your budget on the speakers, one-fourth on the amplifier, one-fourth on the tuner, one-fifth on the turntable and cartridge, and the remainder on miscellaneous.) Use these figures as a starting point—but only that. Components rarely cost exactly what you've allocated for them.

No question, the more places you shop for your hi-fi equipment, the more you'll learn from exposure to different flavors of opinion. But visiting too many is like seeking advice from a crowd—it's difficult to find a consensus. Sampling several should give you a reasonable idea.

But what kind of a dealer should you consult: an audio salon, a mail-order house, or a discount or department store? All have something to offer.

Discount and department stores offer low prices, with discounters often being the lower of the two. But remember, low prices result in part from low overhead. This may translate into less elaborate listening facilities, less knowledgeable clerks and less sophisticated in-house service facilities. Department stores usually stock fewer models than discounters. Although they too are unlikely to have service facilities, they usually are more helpful, since they want your business in their other departments.

Audio salons are, on the whole, the most informative of all hi-fi equipment sources. They have elaborate listening facilities with (in most cases) good acoustics; their salespeople know something about what they're selling; and they have the best service facilities. They also offer a wide selection, including many brands you won't find at discount or department stores, and are a good source for used-equipment bargains, usually with warranties. All this costs money, which means that you'll end up paying more. But it's worth it. In general, the more information and assistance you need, the more you should consider buying from an audio dealer.

If there are no dealers near you, then mail-order is your only choice. Mail-order prices are frequently low; on the other hand, their prices do not include shipping costs, and if your components ever need servicing, you won't have a specific dealer to go to.

Your first purchase should be a pair of speakers. They will be the heart of your system. It's not merely enough to spend one-third of your hi-fi budget on them; try to budget about half your shopping time as well. Listen to the best speakers available, regardless of whether or not you can afford them. Analyze what you hear, and how it differs from what you hear from less expensive, but quality speakers.

Judge how each speaker handles the bass, midrange, and treble, both separately and together. Bass should be clean and firm, but not omnipresent. Beware of speakers that seem to have "lots of bass" at all times. This is a sign of an overemphasized upper-bass resonance, and you'll quickly tire of it. If possible, listen to the speaker while using a record with a descending run of notes in the low bass (organ, cello, or string bass are good

Listen to the best speakers available, regardless of whether or not you can afford them.
sources). Reject the speaker if the notes stay at one pitch instead of gradually lowering until they die away.

If you want a lot of bass, you will have to compromise on some other aspect of speaker performance. Designers must trade off bass performance against speaker efficiency (which governs the power—and hence the cost—of your amplifier) and speaker size (which governs the cost of the speaker itself). That’s one reason speakers with the best bass tend to cost more.

Treble should be high, clean, and “airy,” with no tendency to spit, crackle, or sound harsh. (But listen to several records and sound sources to be sure that a particular problem isn’t occurring elsewhere in the system.) Voices and solo instruments are good tests of midrange response—they should neither jump out at you (a sign of too much midrange “presence”) nor recede into the background. Also, they should not sound hollow or nasal.

Wide-band noise is a good test of overall frequency balance. And every dealer demo setup has just such a noise source—an FM tuner. Set it to a frequency between stations, turn the muting off, and the interstation noise becomes, in effect, a crude noise generator. While you’re listening to this noise source, walk across the speakers’ sound field. If the sound appears to change only at the far edges, the speaker system has good high-frequency dispersion; if high frequencies fade out quickly once you leave their on-axis “beam,” or if the highs fade in and out at several locations, reject the system.

Use these preliminary screening tests to determine which speakers are worth listening to more closely. Once you narrow your choice, restrict your listening to only two speakers at a time, and don’t audition more than three or four speakers per session. This avoids mental confusion. During each comparison, try to verbalize how each speaker sounds—it’s easier to remember that way. It also helps to write down your impressions. And don’t forget that the speaker system you choose will bear directly on what amplifier you’ll need. Thus, it’s a good idea to check out your final choice with a number of different amps to make sure you’ll be pleased with the combination.

You can, of course, save money on speakers if you buy them in kit form, as a used pair, or a model that has been damaged or discontinued. How do such buys stack up?

Kit speakers, of course, are hard to evaluate, unless you can find someone with a finished pair that you can listen to. Actual construction generally requires little electrical skill and knowledge, but you do need some skill in wood handling and finishing. Some kits include only the drivers and crossover kits, and you must construct the enclosures from scratch. So make sure you know whether or not you’re getting one that includes precut wood panels.

Used speakers are probably the safest used-equipment buys. Speakers seldom “wear out” gradually—they usually suffer a component failure, such as blown drivers or rubbing voice coils. So a used speaker that sounds as good as a new one probably is, although it may not be covered by warranty, and may have a few scratches on its cabinet. New speakers are sometimes marked down because of scratches. But they don’t affect the sound. If a speaker drops in price because it is being replaced, you can expect the replacement to sound better. But if you like the sound, why not buy it?

Amplifiers aren’t perfect, but they are the most perfected components in the hi-fi chain. You can therefore narrow down your search to amplifiers with the power and the features that you need without worrying too

Don’t forget that the speaker system you choose will bear directly on what amplifier you will need.
There's no such thing as too much power—only too much for your budget.

That doesn't mean that all amplifiers sound alike. There are subtle differences between them. If one sounds substantially different from the others, however, there's usually something wrong with it.

Let's start with just how much power you need. Your best bet is an amplifier falling somewhere in the upper half of your speaker's recommended power range. Amplifiers with less than the minimum recommended power are no bargain: you're more likely to run an underpowered amplifier at or near its clipping point, where it generates harmonics that not only sound harsh but can overload and burn out a tweeter.

There's no such thing as too much power—only too much for your budget. All music contains transient peaks far higher than the average sound level. Every dBW of amplifier power over and above the amount needed to reproduce the average power levels cleanly means fewer peaks will be distorted. But small peaks are more common than large ones, so doubling the power once does more to clean up the sound than would doubling it a second time. Jumping from 25 watts (14 dBW) to 50 watts (17 dBW) per channel may make an easily perceptible difference in listening fatigue; a jump from 50 to 100 watts (20 dBW) will be less perceptible. And so on.

Using our rather inefficient speakers, we've found the best sound values are in amplifiers delivering 50 to 100 watts per channel. But your ears, your listening levels, your room, and your speakers will be different.

The louder the listening levels, the longer you listen at that level; the bigger your room; the more sound-absorbent its furnishings; and the less efficient your speakers, the more power you will need. Bear these factors in mind when comparing what you hear from an amplifier in the showroom with what you can expect to hear when you listen to that amplifier at home.

One man's frill is another man's necessity when it comes to amplifier features. For example, you'll need a volume control and an input selector switch. Make sure that the selector switch gives you the right number and kind of inputs for all your foreseeable needs. Most people don't need more than one RIAA phono input; some need two or more, some need a moving-coil input. You may need "external processor" loops for use with noise reducers, expanders, equalizers, or other such devices. You can also use tape-monitor loops with these devices. But will that interfere with the way you plan to use them and your tape equipment? Will you need one tape monitor or two? And if two, will you need one- or two-way tape-dubbing facilities?

Bass and treble controls are standard equipment too. But perhaps you'll want something more elaborate—a three-control setup that includes midrange presence; bass and treble controls with switch-selectable turnover frequencies; or even a built-in equalizer.

Built-in five-band equalizers are about as complex as you'll want for tone-control use. More elaborate separate equalizers are better used for adjusting system and room response, then left alone. If you have a separate equalizer, you will not, of course, need tone controls.

Other amplifier features, such as filters and loudness compensation switches, also affect tone. High filters cut down tape hiss, record scratch, and some distortion. Ideally, they should start fairly high (around 12 kHz, and certainly not below 10 kHz) and roll off steeply—12 dB per octave. Otherwise, they are no more effective than your treble control. Low filters come in two types: "infrasonic" (which eliminates the effects of record warps and similar problems) and "low" (which reduces AC hum, turntable rumble, and some rumble on the discs themselves). Infrasonic problems occur in all systems; the others occur in some.
Most integrated amplifiers have speaker switches, so you can turn on a second set of speakers in another room, or turn all speakers off when using headphones. If you plan to use two pairs of speakers simultaneously, make certain that they are rated at 8 ohms impedance, at the very least. Lower-rated speakers will cause problems with your amp in this situation.

**What matters most in tuners** is how easily and precisely you can tune in a station. A station that is mistuned only slightly, loses all the benefits of superior circuitry and specifications to distortion. If you can’t afford a digital-synthesis tuner (which only hits the FM channel frequencies, skipping the irrelevant frequencies between them), look for one with quartz or some other frequency-lock system. (If it’s AFC, make sure you can switch it off, or you may be unable to receive weak stations that are adjacent to strong ones on the dial.) A center-channel tuning meter helps too—if it’s properly calibrated (not all such meters are). Signal-strength meters are more useful in aligning your antenna than in precise, distortion-free tuning. Multipath, or signal-quality meters help even more.

A good antenna, especially a directional one that can be aimed for the cleanest signal pickup, is a must. A few dollars spent on that will pay off more than double that amount spent on a better tuner. That’s especially true of rooftop antennas. If multipath is a problem in your area, you might consider a tuner with a high-blend switch, which takes out some of the high-frequency distortion without reducing stereo entirely to mono. Some tuners let you switch between wide IF response (for better fidelity on the uncrowded sections of the band) and narrow IF response (to filter out adjacent-station interference in more crowded sections).

The importance of the different FM tuner specs varies according to reception conditions in your area. If all the stations you’ll want to listen to are nearby, you won’t need ultra-high sensitivity. The greater the number of stations away from your immediate area, the more you’ll need good sensitivity. If there are many FM stations nearby, you’ll need a tuner with more selectivity than if the FM signals are few and widely spaced along the dial.

Multipath may be a problem if you live near tall buildings (as in cities) or near mountains. In this case, consider a tuner with the highest possible AM suppression and the lowest possible capture ratio. Image rejection is most important for those who live near airports, where interference from air-to-ground radio can be a problem. Spurious response rejection counts most when you live near a very strong signal source (within a mile of a transmitter, for instance).

Some tuner specifications are equally important everywhere: specifically, signal-to-noise ratio and distortion, which should be as high and as low as possible, respectively. And pay more attention to the stereo than the mono S/N and distortion specs.

**Sure, a receiver costs less** than a separate integrated amp and tuner, and saves you more money than a tuner plus a separate amp and preamp. But is it always your best buy? No, not always.

Receivers cost less because they use a single power supply and cabinet instead of two or three smaller ones. And they offer you a carefully balanced set of characteristics—a medium-performance tuner with a medium-power amp, a high-performance tuner with a high-power amp, and so on.

But suppose that balance isn’t what you need either now or in the future? Separates give you the option of putting together a super tuner and a modestly-powered amp, for example, or a kilowatt and amplifier with a very modest tuner. They also let you start with moderate performance...
and build up to higher performance, component by component. With a receiver, you'd have to trade in everything at once.

As with speakers, used, discontinued, and kit-built amplifiers, and tuners cost less. Are they worth buying? Used electronics are almost as good a buy as used speakers.

Discontinued models are apt to sound much like the new models that replace them, though the new ones may have additional features. The performance of a tuner is more likely to improve with each succeeding model than the performance of the amplifier, but the difference still may not be that significant.

Kits for amplifiers and turners take longer to build than do speaker kits, which means they have more steps and are more complicated. This kind of kit-building requires slow and careful work, so be certain you can handle the task before you choose to build a kit. Companies offering kits include Heath and Hafler.

If you have to choose between tape and a turntable, the turntable is usually a better bet. You'll find a lot more music available on disc—and with better sound and lower prices too. And a good turntable costs a lot less than a high-quality tape deck.

The main turntable specifications to worry about are wow and flutter, and rumble, which should be as low as possible. With cartridge specs you should check compliance, mass, and frequency response. A reliable dealer's recommendation is well worth considering in deciding which arms and cartridges work best together.

Where a manufacturer makes manual, semiautomatic, and fully automatic versions of essentially the same turntable, the price usually increases with the degree of automation. A "best buy" here would be the semiautomatic, which raises the arm when the record ends.

Oddly, manual operation is to be found in the most expensive turntables, while multiplay operation is found in least expensive models.

Buying a tape recorder is more complex. Here, the correlation is closer between what you spend and the sound quality and features you receive. A good quick test of record/playback quality is to record FM interstation noise, then compare the taped version to the original. The smaller the audible difference, the better the sound quality. But, of course, check the machine with some music too.

Recording is easier if the deck has wide-range level meters or bar-graph displays (the usual 20 to 25 dB range is a little limited) and switchable limiters to keep transients within bounds. Recording quality will also improve if your tape deck has a bias fine-adjust control and some means of calibrating the deck for best results with any tape.

Kits are rare in this department. Closeouts, however, are worth looking into—the march of new technology is currently a little faster here (especially in tape). This may mean that performance differs substantially between old and new models, but it often means more significant price reductions.

Used equipment? Well, anything with moving parts will wear, and the more complex the unit, the more likely it is that some part inside will need replacing soon. Direct-drive manual turntables (and, to a slightly lesser extent, belt-drive ones) are fairly good bets, as are automatic versions that use separate tonearm motors. Tape decks with three motors seem to last the longest, followed by two-motor decks; They're actually simpler in design than single-motor types.

Some final tips: Don't buy much more performance than you need, but never buy less. A hi-fi system that you don't enjoy is no bargain. Shop carefully and take your time. Get acquainted with the prices that prevail. That way, you'll know a bargain when you see one.
by Edward J. Foster

Secrets of Super-Sounding Stereo

Straight facts on how to set up your components for top performance

If you find that your new system, once it has been hooked up, does not sound as exciting as it did in the showroom, it’s a good idea to check it over to make sure that everything is properly connected and that the speakers are placed in locations that will give you the best performance possible.

Hooking up your system requires a number of interconnections. Invariably, equipment sold in America is interconnected via cables that terminate on both ends with male RCA-phono plugs (sometimes called “pin plugs”). Some equipment also is fitted with multi-pin DIN connectors, but in general you’re best off using phono-plug cables, which are available in high-fidelity stores or radio-parts outlets. These cables come in various lengths, with the plugs molded onto the wire for security. Each cable—consisting of a center conductor and an overlaid shield—handles one stereo channel, but usually two cables (with color-coded plugs) are molded together to form a stereo pair. Which color to use for which channel is unimportant. What is important is consistency. Once you’ve designated a color for a channel, use that throughout your system, otherwise you can easily end up reversing left for right.

Cables are usually supplied with the equipment, but sometimes they are either too short or are of inferior construction. When buying a cable, pick one of suitable length—long enough to let you move the equipment and check back-panel connections, but not too long for your particular setup. Avoid cables with an extra-long center pin; on some jacks, they don’t seat all the way in. The center pin should extend about 5/16 inch beyond the split-ring outer portion. (Long ones protrude about 1/2 inch.) The outer ring should grip the jack sleeve firmly to assure a good connection. If it doesn’t, remove it, squeeze it gently, and try again. (A loud hum on one channel may indicate a bad connection on the outer ring, which grounds the system.) Inserting and removing phono jacks with a twisting motion will scrape off oxide that can impair the connection. Clean a badly tarnished connector with steel wool or fine-grit sandpaper, but don’t leave scraps of steel wool in the connector. And always

1980 Edition
Most interconnections in a stereo system are made with single-conductor—shielded cables that terminate in male RCA-phono plugs. However, loudspeakers must be connected with heavy gauge cable. Two cables—often molded together as a single entity—are used for each hookup. One carries the left-channel signal, the other the right. They are distinguished by color-coded plugs. Tape recorders require two sets of cables: one to carry the signal to them for recording, the other to conduct the playback signal to the preamp. A single ground wire is used to connect the turntable frame to the chassis of the preamp.

External devices such as signal processors and equalizers may be connected between the preamp output and the power amp input or in a special external-processor loop. Sometimes they are connected in lieu of one of the tape recorders (not shown).

Grip the cable by the molded plug. Yanking it may break the internal wiring.

Several "special" cables featuring gold-plated connectors and/or low-capacitance wiring are available. Gold is an excellent, tarnish-resistant, electrical conductor; it’s also expensive. Gold needn’t (and shouldn’t) be physically abraded; you can count on it to remain a good conductor indefinitely. But best results are obtained only when gold-plated plugs are used on gold-plated jacks. While gold connectors are not a requirement, they do assure the best transfer of the very low signal levels generated by a phono cartridge.

Low-capacitance cables between high-level inputs and outputs are usually not required, unless your cable runs are very long (say, over 10 feet). However, if a piece of equipment has a high output impedance (greater than 5,000 ohms), low-capacitance cables may be needed to assure full high-frequency response on a 10-foot run. Fixed-coil phono cartridges are sensitive to the amount of capacitive loading they "see," and low-capacitance cables between turntable and preamp are often required. Most modern turntables have permanently affixed cables that should be sufficiently long enough to reach the preamp. However, if you must lengthen them, use female-to-female splicing connectors. We do not recommend lengthening the turntable cable unless absolutely necessary and then only if low-capacitance wiring is used.

The proper sequence of interconnections is fairly obvious and is always clearly illustrated in owners’ manuals. Leads from the turntable connect to the left and right phono inputs. A third (single) wire that serves to ground the turntable frame to the system is usually supplied, and it is connected to the ground post that normally is near the phono inputs on the preamp. (Occasionally, connecting this ground wire increases the hum level rather than reduces it. If hum occurs only on the phono input, try removing this wire.)
A choice of phono inputs is available on most preamps and many receivers. Fixed-coil (moving-magnet, induced-magnet, moving-iron, variable-reluctance and similar) cartridges should be connected to the "normal" phono input. Typical moving-coil cartridges require a matching transformer or pre-preamp to make the signal level compatible with standard preamps. Some preamps have this circuitry built in and can accept moving-coil cartridges directly. Your owner's manual should tell you how your system handles this type of cartridge. Some high-output, moving-coil cartridges are designed to feed the normal phono input. The cartridge data sheet should indicate this fact.

Some preamps have more than one phono input. One might be for moving-coil cartridges, the other for the fixed-coil type. Obviously, use the one that is suitable for your cartridge. On many preamps, though, the inputs are the same, and you may choose either one for a fixed-coil cartridge. Others afford a choice of cartridge loading on one of the inputs.

If the value of the fixed-load input matches that of your cartridge, it may be the better choice, since less internal wiring and switching often yield slightly lower noise. However, if the fixed-load value isn't suitable, use the selectable input. Most fixed-coil cartridges require a 47-kilohm resistive termination; ideal capacitance can range from under 200 pF to as much as 450 pF. The cartridge data sheet will tell you what's best. Total load capacitance is the sum of the preamp input capacitance and the capacitance of the turntable/tonearm wiring, so select a preamp capacitance that is equal to the desired capacitance minus that of the tonearm wiring.

Double-ended phono cables are also used to connect the tuner and tape deck(s) to the preamp. One set of cables is used to feed signals from the preamp to the deck for recording; a second set to feed signals from the deck to the preamp for playback. Usually the preamp's TAPE OUT jacks supply signal for recording and are wired to the deck's LINE IN jacks. The
Preamp capacitance should be equal to cartridge capacitance minus that of the tonearm wiring.
you can’t locate the position of the sound, if it seems to be diffuse and directionless, the system is out of phase. Turn it off and reverse the leads at either (but not both) of the speakers (or at the amp), but not at both the amplifier and the speaker. Again, check the sound. It should be easily located.

**Your hookup is now complete**, but a few hints may help you to get better performance. First, route input leads away from output leads and away from all power cords. This helps minimize hum pickup, especially on phono wiring. Reversing the power plug in its socket will sometimes reduce hum. Flip the power plugs over one at a time and select the orientation that results in lower hum. You’ll have to listen to the system after each reversal. **Be sure to turn off the power** and wait a few seconds before each switchover.

Most preamps, integrated amps, and receivers have convenience outlets to accommodate the power plugs of other equipment. Some outlets are “switched” (controlled by the amp’s on/off switch), others are always “live.” An automatic turntable’s cord usually is plugged into an unswitched outlet so it can complete its cycle even if you turn the amp off. Most other equipment is handled more conveniently by the switched outlets. Make sure that the ancillary equipment does not draw more power than the outlets are rated for.

Turntables and tape decks are highly sensitive to hum generated by the AC magnetic fields that frequently surround power transformers and motors. In general, the more power a device consumes, the greater the magnetic field created by its transformer. So keep the turntable and tape decks away from the power amp. System hum may be cured by relocating the components.

**External shock and vibration** also affect record players. Place your turntable on a solid platform away from the loudspeakers. While playing a record under reasonably loud conditions, lightly place your finger on the turntable frame. If the frame vibrates in sympathy with the music (an effect most noticeable on passages with a lot of deep bass), the system is receiving “acoustic feedback.” Under severe conditions, the system may oscillate the “howl” much like an ill-adjusted public-address system. If this happens, try a different location for the turntable—one that is more remote from the speaker and/or provides a more secure support. If this doesn’t help, try removing the dust cover entirely. (It acts like a big microphone and picks up the sound waves that vibrate the turntable.) Turntable isolation pads (or feet) are often helpful in reducing vibration transmitted through the turntable’s own isolation system.

Heat adversely affects the reliability of electronics. Place your gear away from a radiator and any window that receives direct sunlight. Make certain that components—particularly the power amp—are well ventilated. Don’t block off air flow and remember that heat rises. A power amp placed below other equipment will cook the gear up on top. Vinyl records soften and deform under heat, so store them—vertically and under slight pressure—in a cool place. Tapes too should be stored in a cool, relatively dry area, and also well away from stray magnetic fields that can erase their contents.

The size, shape, and furnishings of your listening room color the sound that reaches your ears, as does the placement of your speakers vis-à-vis walls, floor, ceiling, and corners. Listening position relative to the speakers also affects the uniformity of the sound you hear and the quality of the stereo image.

Standing waves are created in any room. How severely they affect the
Ideally, you'd want a listening room without parallel walls.

Sound quality depends largely on the shape and dimensions of the room. Under standing-wave conditions, sound at certain frequencies is concentrated in certain areas of the room and is missing in others. A standing wave is created between every pair of parallel, reflecting surfaces at every frequency at which the spacing between the walls is an integral number of half wavelengths of the sound. For example, since sound travels through the air at a speed of approximately 1,130 feet per second, the first standing wave along a 12-foot dimension will be at 47 Hz. Others will occur at 94 Hz, 141 Hz, etc. In fact, there is another eigenmode every 47 Hz. At high frequencies, the standing waves are clustered so close together (relative to the logarithmic music scale) that they’re not noticeable. At low frequencies, they are.

An ideal listening room is one without parallel walls—concert halls and recording studios are so constructed. (A room with a cathedral ceiling at least avoids the floor-ceiling eigenmodes.) But most rooms are rectangular. You can help “break up” standing waves with room furnishings. Anything that will make the walls irregular will help—bookcases, room dividers, etc.

If you have a choice of listening rooms, try to pick one whose dimensions are not either integrally related or have a common submultiple. This avoids the possibility of having the three sets of standing waves (set up between the two opposite pairs of walls and between floor and ceiling) accumulate at the same frequencies. One set of room-dimension ratios that assure that eigenmodes won’t coincide is 1:1.26:1.59. With a typical 8-foot ceiling, this work out to a 10’1” x 12’9” room—which is rather small. Fortunately, you can double or triple any of these dimensions and still have correct acoustics. Height, width, and length are irrelevant. For example, you can double the “width” measurement listed above (10’1”) and use that value (20’2”) for the “height” of a room 12’9” wide by 8’ long.

The “liveness” or “deadness” of a room also affects the sound quality, particularly at the high end of the spectrum. A heavily carpeted room, furnished with overstuffed chairs and heavy draperies, will sound dull because the treble will be absorbed by the soft material more thoroughly than the bass. Advancing the tweeter-sensitivity control on your loudspeakers or boosting the treble on the preamp may help to achieve a more pleasing balance. To add liveness to a room, you can open the drapes or hang mirrors or other hard reflecting surfaces. The sound in a sparsely furnished room with bare wood floors and hard walls is likely to be too bright. Adding some absorbent material will help. While you can follow these general guidelines to ascertain which way to go, it’s basically a matter of adjusting the individual room elements until you get a pleasing sound.

Speaker location vis-à-vis its immediate surroundings has a strong impact on how smooth the speakers’ bass and midrange response will be and on the effectiveness of the stereo image. Some speakers are designed for specific placement, i.e., in the corner, against a wall, raised above the floor or standing on the floor. The speaker should be placed where it was designed to go. With those whose manufacturers do not specify an ideal placement, you may need to experiment.

An old adage says that placement at the floor-wall interface increases bass response; corner placement increases it further. In general this is true, since sound reflects from these nearby surfaces and strengthens the radiation at very low frequencies. However, at higher frequencies (in the midbass), the reflected sound may become out of phase with the direct sound and reduce the sound-pressure level. So although bass response may be strengthened on average by placing the speaker near the wall,
floor, or in the corner, midbass response may become quite irregular (colored). Exactly where frequency irregularities occur depends upon the distance from the active driver to the reflecting surface. That, in turn, depends upon the size of the enclosure, the placement of the driver within the enclosure, and the distance from the wall (or floor) to the system.

Again, the word is experiment, but we can offer you some guidelines. Unless the system is designed specifically for corner placement, don't put it there. A tower-type speaker is meant to stand on the floor, but it may perform better at some distance from the wall. Place each speaker at a different distance from the side walls and keep each of them at least a couple of feet away from those walls.

**Measure the distance from** the center of the woofer to the floor and place the speakers so that the distance from the center of the woofer, around the cabinet, to the rear wall is not the same as the distance from the woofer to the floor. Nor should the distance to the sidewall be a multiple of the distance from the woofer to any other reflector. The idea is to avoid having each of the reflected sound waves end up out of phase at the same frequencies.

Bookshelf-sized speakers are generally not meant for floor placement, but this is far from certain. Some speakers seem to be designed in a compact format simply because such speakers sell well. Sometimes raising a small speaker on a speaker stand smooths out the bass noticeably.

In general, speakers should be placed so that the midrange and tweeter drivers are at ear level (when you’re seated) and so that the sound coming from them is not muffled by interposing furniture. For the best stereo image, the speakers should be roughly the same distance apart as either of them is from your listening position. The best setup is essentially an equilateral triangle with a speaker at each corner and you at the apex. Sometimes imagery is improved by pivoting each speaker toward you so that you’re more on the axis of the high-frequency drivers. If this improves the illusion but makes the sound too hot on the high end, try turning down the tweeter sensitivity.

A **graphic equalizer** can help smooth out room-induced response irregularities. But perfect compensation seldom can be realized and certainly never at all places in the room. Furthermore, a complete equalization job requires test instruments and a flexible parametric equalizer. So it’s best to count on your equalizer simply for fine-tuning and to first experiment with speaker location and room furnishings to obtain a good-sounding system.

One of the newer high-fidelity accessories is the so-called “ambience simulator” or “ambience-restoration” device. Such systems strive to extract or synthesize the ambience (or hall sound) from the program material and present the reconstructed concert-hall “reflections” via a second set of speakers. Another power amp and another pair of speakers are required, and these are sometimes included in the system package. These speakers need not be as good as the primary set, for most present-day ambience systems do not go much beyond 7 kHz. Contrary to popular belief, the best place for these secondary speakers usually is not behind the listener but to the sides of the listener, and frequently, slightly to his front. Again, for best results consult your owner’s manual and experiment.

Setting up a high-fidelity system is as quick and easy as you wish to make it. Within an hour or so, you can have everything out of the boxes, set up, and, more likely than not, sounding good. Those bitten by the experimenter’s bug can obtain even better performance from their system—and gain a basic understanding of acoustics—by spending the time to experiment with the arrangement until the best is achieved.
How to Troubleshoot Your Stereo System

Simple, money-saving steps you can take to prevent and fix the most common problems

by Howard Roberson

Silence. Sometimes golden; other times troublesome. Let’s be specific. Say you bought your stereo system within the past year or so. At first you didn’t worry about things going wrong because the warranties covered most problems. Now you’re probably outside the warranties. If you were to flip the power switch and all you heard from your stereo system was silence, what would you do?

You have two main courses of action: fix the problem yourself or take your system to a repair shop. What you may not realize is that many problems are less serious than they first appear to be, and may be easily fixed at home. We’ve outlined below two “home remedies,” including how to prevent problems from occurring in the first place. Then we suggest what to do when you must seek professional repairs.

A preventive maintenance plan is a must for any stereo system. Regular inspections and cleaning not only eliminate common trouble spots, but assure that your system is delivering the best sound it can.

In the case of turntables and tape recorders, cleanliness is important. Both employ transducers that must contact a moving surface to generate the small electrical signals they produce. Keep these contact areas clean. The effects of dirt as noise or dropouts are magnified by the necessary preamplification.

Even if your discs are kept immaculate, a brush specifically made to clean a stylus should be employed as often as close inspection dictates. Don’t use any “handy little brush”; it may damage the stylus mounting.
You should clean the heads of a tape recorder regularly to prevent accumulation of oxide particles and other material deposited by the tape. Some machines and tape types will require cleaning much more frequently than others. Do it regularly. At the same time, clean other areas where dirt is accumulating, especially the capstan and its idler. Examine all arms, lifters, flutter filters, guides—anything over which the tape must pass.

Isopropyl alcohol and cotton-tipped swabs, both available in drugstores, are a good combination for most cleaning tasks, including removal of oxide particles that build up around the heads. Do not use rubbing alcohol, which has additives that will goo things up. Special cleaning solvents for recorders may do a better job and not attack plastic parts or head varnish, as alcohol sometimes does. Try to keep pressure pads clean by brushing them; solvents like alcohol could loosen the mounting glue. Demagnetize (with a degausser designed for the purpose) the heads, guides, etc., after several hours of operation and immediately before any recording of particular interest.

Signal sometimes is lost because controls and switches have not been moved from day to day. The majority have contacts that are designed to scour, so to speak, as they are used. Without this scouring action, corrosion can develop right around the point of contact, causing the control to become intermittent in the very setting where you want to keep it. To forestall this eventuality, regularly rotate all switches and controls through all positions (and activate all levers and pushbuttons), whether you normally use them or not. Don’t overlook those that are built into your speakers. Do this with the power off, perhaps once a month—more or less, depending upon your local pollution rating. You also should check the indexing of the knobs and tighten any that are loose.

Less frequently, perhaps twice a year, examine all power and signal cabling, and its connectors, for evidence of damage or poor contact. Don’t forget to check the FM antenna, downlead, and rotator. Clean, repair, or replace according to need. Unplug the cartridge shell and examine the mating contacts of the shell and arm. Clean as needed, using a soft, pencil-type eraser (such as Faber No. 7066), being careful not to leave debris in contact areas. Tools made for cleaning battery contacts may also work, but take care not to bend the “fingers” or scratch contact points. Check the stylus mounting for evidence of damage. (Note: The normal nonplaying position of the cantilever may slope steeply downward.) It is possible to detect gross damage with a pocket microscope, but this is not an adequate means to check for wear. In fact, it is difficult to examine styli with many microscopes because of poor resolution and mechanical positioning. If your dealer has a good inspection setup, take advantage of it. If not, it is probably best to replace the stylus every six months to a year, depending on use. Having a spare stylus is a good idea; a sudden change in record quality may indicate damage, which may be confirmed or ruled out by substituting the spare.

Most turntables and recorders require some oil periodically on rotating shafts, so adhere rigidly to the lubrication schedules in your manuals. Observe strictly the cautions on excessive oiling, which can cause the transfer of oil to surfaces that must be kept clean and dry. At the same time you do this, look for signs of bent parts, rubbing, or wear—particularly in tape heads. If you find any, maintenance may be called for to prevent deterioration of performance.

Periodic, but less frequent, cleaning and lubrication are required for the mechanisms inside a recorder or turntable to assure top performance. First, with the aid of your manuals and the dealer, find out whether any
Draw Your Own Troubleshooting Map

A homemade "map" of your stereo system can be a big help when you come to troubleshoot it. In this basic collection of separates we are assuming a turntable, tuner, and tape deck; a separate preamp with fairly simple controls; a power amplifier with its own gain controls; and a pair of speakers. Your diagram should show all elements—including any speaker controls—that may affect the signal path in ways that you can check. To show how you might use such a diagram, let's suppose that, when you turn on the system to play FM, you find the right speaker dead. You might check the speaker first and work backward (any systematic approach will do), but let's begin at the input to the control preamp.

Is the tuner not feeding it a right-channel signal, or is it killing the right-channel input for any source?

Fig. 1) Put a record on the turntable and rotate the selector switch. The phono right channel is dead too, so the problem is not peculiar to the tuner and appears to be after the selector switch. You set up the tape deck to record and find that the meters indicate a right-channel signal for both tuner and phono. You have established that the fault is after the tape-recording feed. Perhaps the mode switch or the use of headphones at the preamp's output will help pinpoint the fault.

Fig. 2) The right speaker remains dead in both positions of the mode switch, but both earpieces are live in both switch positions. The fault therefore is somewhere between the headphone connections and the speaker. It could be at the very output of the preamp, at the input of the power amp, or at its output.

Fig. 3) You can narrow the field by adding masking tape "flags" to the demonstrably faultless left-channel cable from the preamp output to the amp input and interchanging it, at the power-amp input, with the right-channel cable. Suddenly (when you restore power) it is the left channel that has gone bad, and the right speaker has revived. That eliminates the power amp and the speakers as the source of the system's trouble.

Fig. 4) The fault may be at the output of the preamp, or it may be in the right-channel cable. Switch the other ends of the cables, this time at the preamp, so that the questionable unflagged cable now runs from the left preamp output to the left power-amp input. The left speaker remains dead. You can now deduce that the problem is in the cable and the cure easy: Buy a new cable.
measures are recommended. Those not explained in the manual should not be attempted by the neophyte and will require the step-by-step instructions provided in a service manual, which sometimes can be obtained directly from the manufacturer by writing to the address on the warranty card. Expect to pay a nominal charge. Radio parts stores will have the Howard Sams Fotofact series on various types of equipment. Each manual covers more than one unit, but it is well worth the cost if you are bent on doing this sort of work. Remember that even simple removal of a chassis from a cabinet can quickly become a disaster if the wrong screws are loosened. If you do take steps to bare the guts of your machine, take the time to examine the various mechanisms and learn the function of all the clutches, belts, and so on.

If you're feeling a little adventurous and want to get some reference data to help you in later troubleshooting, your tape recorder's meters can be used to measure levels throughout a system that is operating correctly at present. If, for example, you have a separate tuner, you can compare its direct output to that normally delivered via the tape-recording output of your preamp or integrated amp. The levels may be worth recording both for your favorite station and for interstation noise. You can note the differences in dB that the two hookups deliver with the same type of signal and recording-level setting, or you can adjust levels for the same meter reading and note the settings required. You can make a similar check on the output from the turntable (using the mike input), noting the level settings for a 0-VU meter reading. The output from a preamp can be checked for normal listening level, or whatever. There are other variations, of course, but the idea is to get some data on your “standard” levels, noting control settings to permit rechecking in the future. But don’t forget to turn off the power whenever you change a connection in the signal path.

And never, under any circumstances, switch from one source to the other with the volume control turned up. The resulting transient can be very damaging both to the power amplifier and to the speakers. It is true that you might be able to get away with the practice most of the time, but it takes just one misadventure to cause a lot of damage, including a noticeable assault on your wallet. Don’t forget: If you have tubed equipment, you should test the tubes perhaps once every two years, depending on use. This is most important for rectifier and power-output tubes, which may become emission-limited, if maximum performance is to be maintained.

When something goes wrong with the sound of your system, the change will occur in one of two basic ways: Either the quality will deteriorate over a period of time or the change will be abrupt. If the latter is the case, ask yourself a couple of questions. First, what did you do last? Second, what might someone else have done? There are many so-called cockpit errors that we miss if we don’t stop and think. Here are some examples: You forgot to turn the circuit-breaker back on after replacing a wall switch; someone turned off a wall switch that no one “ever” turns off; perhaps someone inadvertently pushed a normally unused tape monitor or remote speaker switch. It also is possible that a knob has slipped, giving an incorrect indication of system settings. Mr. Nobody is responsible for many such goofs, so be prepared for anything.

If there is no sound at all from your system, check the pilot lights. If they are all dead, see whether the turntable will operate or use a lamp to make certain the wall outlet has power. If necessary, use an extension cord to feed power to the system. If it remains dead, turn off the power switch and check the condition of the various fuses—line, B+, and speaker—that protect circuitry. Manuals normally give fuse locations.

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1980 Edition

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If one channel is working, that's good news from a troubleshooting standpoint.

You may find that there is a fuse inside some equipment; before you check it, be certain of two things: that the power plug is disconnected from the outlet and that you understand the procedure of disassembly required. Before replacing blown fuses, check the condition of the connections, particularly the amplifier outputs to the speakers. Clean up poor connections, making certain there are no stray bared wires that could short an output. If replacement fuses blow immediately, a trip to a service agency is in order.

If all of the pilot lamps are on, listen very closely to the speakers, one at a time. If there is complete absence of sound from either of the speakers, even with the volume control all the way up, double-check for shorted amplifier outputs or blown B+ or speaker fuses. If these seem in order, disconnect the output cables from the amplifier. It is doubtful that the speakers could have been blown out without your knowing about it, but you can check them by alternately making and breaking connections from a flashlight battery to the speaker leads. Current passing from the battery through the voice coils should produce a noticeable "clunk" with each make or break.

A "positive" speaker test means that you must now use logic to localize the problem—keeping in mind the signal routing in your system. A good signal at the headphone jack may prove, for example, that signals are normal most of the way through the amplifier or only through the preamp, depending on the circuit point from which the headphone signal is taken. It may be helpful to use your recorder as a diagnostic tool—with the headphones in its jack and your eye on the meters, you can monitor whatever the recorder is connected to. You can, for instance, compare the signal at the normal TAPE-OUT jacks with those at the PRE-OUT connections.

If one channel is dead, that's bad news; but it also means that one channel is working, and that's good news from a troubleshooting standpoint. Set the selector switch to each of the possible sources to confirm that the condition affects all of them. Now, if your preamp has a MONO/STEREO mode switch, work it back and forth several times to clear a possible intermittency and then leave it in MONO if the defective channel remains silent. The PRE-OUT connections normally will be the next "checkpoint" in the signal path after this switch. If, when you monitor PRE-OUT, there is normal sound in both sides, switch back to STEREO. If the signal now disappears on one side, the problem is at or before the mode switch. If the signal, even in MONO, is on only one side, the break in signal flow is after the mode switch.

Of course, it is possible that the break in the signal path is in the cables from preamp to amplifier or from amplifier to speakers. If your cables are not coded, mark each end of the good-channel cables with pieces of masking tape so you don't lose track of them when you change connections. Let's say that the left channel is good. Disconnect the cables from the preamp at the amplifier's left and right inputs (power off!) and reverse them. If sound still comes from the left speaker when you turn the power back on, and the right one remains silent, the break in the signal flow occurs after the right input connection on the amplifier. If the live and dead speakers have switched positions, the signal loss is before the end of the "dead" cable to the amplifier and after any earlier point that is working correctly. Interchanging the connections at the preamp end of the stereo cable will show whether the failure is in the cable itself.

Drawing a block schematic of your stereo system will help diagnose the problem. Your drawing should show all the units with their switches and other controls that affect the signal path, together with all inter-
connect points. By penciling in the temporary connections, you can see what the path should be as an aid in deducing where the fault lies. And as you eliminate one possibility after another, you can check it off on the diagram.

Sometimes poor contact between a cable plug and the jack creates a problem. Whenever you change connections for any reason, look to see whether either would benefit from cleaning with the eraser. If there is a loud buzz in one channel, it might be caused by poor contact between the jack shell and the tabs on the plug. With the power off, pull out the plug and bend down the tabs to hold the jack shell tightly upon reinsertion. If the tabs will not hold, replace the cables with a quality product that will make such contact tightly.

Any switch or control in the signal paths can cause a loss of sound from your speakers. A volume control will rarely break the path over its entire rotation, though its wiper may lose contact at some point. When it does, it is time to use a control cleaning solvent—best applied with the knob removed. After application, rotate the control over a large arc to aid in the cleaning. If the control remains intermittent, perhaps even after you have removed its cover to spray cleaner directly into the elements, it will have to be replaced. Switches that lose contact can also be treated with cleaner in a similar fashion, but the cover or cabinet must be removed so you can gain access to the contacts.

Sometimes the contacts of a rotary switch will make and break when you push back and forth on the shaft. With careful observation, you may be able to pinpoint what the problem is. Dirty contact areas, warped switch wafers, and cold-solder joints on connecting wires are among the possibilities. Follow the general rule that contact areas are to be worked on only when the power is off. A blade-type burnishing tool may restore contact, but it must be used with care or it may bend contact fingers. If you are inclined to repair, be ready with your pencil soldering iron (not a gun, which can too easily damage delicate parts) for the suspicious connections. Finally, remember that the cleaner is needed only on pot elements and switch contacts; do not spray anywhere else.

Gradual deterioration in sound quality can be caused by such things as a dirty or worn phono stylus, dirty or worn tape recorder heads, and various electronic components—including, of course, aging vacuum tubes. A sneaky one for FM listeners is the loosening of antenna clamps and the rotation of the antenna to an undesired (and unknown) orientation. A drop in level of the highest audio frequencies could be caused by loss of contact in the tweeter’s level control. A sudden drop in the maximum output level, perhaps in just one channel, could be caused by the failure of an output transistor. In rare instances, the corrosion in a control makes it behave like a semiconductor: There is no sound in the output until the voltage at the contact point reaches a critical value, and thus the sound jumps in, so to speak, at a medium to high level out of silence. The cure is contact cleaner and rotation to help buff off the corrosion.

What do you do if you can’t fix the problem yourself? Perhaps you have proven to your own satisfaction that in the tuner’s left channel the signal path is broken with the preamp. Even though you have not been able to find the exact point of the failure, you know which unit is at fault. Your observations will be an aid to a professional, saving him time and perhaps minimizing the charges.

There are two basic repair categories: warranty and nonwarranty. Almost invariably, warranty work must be done at an authorized repair station. Not only will most manufacturers refuse to pay for work done anywhere else, but many warranties stipulate that they become void if such work is done. It can be very frustrating to have the original dealer tell you
Be sensible and logical to get the best out of a repair service.

As in doing your own servicing, you must be sensible and logical if you are to get the best out of a repair service. It is all too easy, for example, to be suspicious about whether the charges represent fair value. Perhaps you feel that the hourly rate for labor is too high, but remember that the overhead costs for servicing high fidelity equipment are higher than those for most comparable businesses. These costs include the investment not only in parts inventory, but in test equipment: $10,000 is common for the latter, but the tab can easily run $5,000 or more for each test bench. The parts investment, too, can vary greatly—up to $50,000 or more. These costs must be covered by the income from service charges, a good proportion in the labor charge and some applied to parts. Understand that the technician working on your amplifier does not get the $20 per hour, but only what is left after the overhead costs are covered.

The high investment in sophisticated instrumentation is required to test to the specifications you find in the advertisements and in your owner’s manuals—and included in more and more warranties. Even one expensive, recently introduced FM alignment generator hardly meets the specs of new tuners and receivers. So, in general, it is difficult for a dealer to be enthusiastic about warranty work. Most feel that reimbursements by many of the manufacturers are inadequate to cover the high costs involved.

One hopes that your repairman will be patient with you, realizing that you are being deprived of more than an assembly of transistors and switches: You are without music. But understanding the problems he encounters will help you to be patient with the time and money service will cost you. Patience will encourage maximum help when you need it—and may even save you from seeking help when you don’t.
The Right Way to Buy Car Stereo

Shopping for a car stereo system used to be both reasonably inexpensive and easy. For less than $100 you could buy a single unit incorporating a tape deck, an FM stereo tuner and a rudimentary amplifier, plus a pair of wedge speakers. Today you can spend that much for just the speakers. With that in mind, here's what we think is the most intelligent way to select the system that fits your type of car. We assume, of course, that you're interested in quality sound.

First, collect as much product literature as possible. (You might use the postage-free bind-in card in this magazine, for example.) If you take a quick glance at the names of car stereo manufacturers, you may think you've stumbled into the world of high fidelity in microcosm, and in a sense you have. There are familiar names like James B. Lansing Sound and Rotel, Jensen and Advent, Marantz and Bose, and so on. Many of the products look like miniature home components (some, like ADS loudspeakers and Uher tape decks, the Rotel receiver and JVC mini-speaker, actually were designed originally for home use). The array of components includes power amplifiers and preamps, separate tuners and tape decks, woofers and tweeters, and equalizers.

A car stereo system, like a home audio system, consists of three main parts: one or more program sources (in this case, the most common ones are an FM stereo tuner and tape deck), a control center (i.e., amplifier and preamp), and loudspeakers. Systems come in as few as three pieces or as many as 13. The first decision you will have to make is whether you want an all-in-one unit or separate components.

More than personal taste should enter into your final decision. Cars such as the VW Rabbit, for example, have very limited room for mounting separate speakers and components, and many smaller cars don't have a separate trunk, so that rules out an entire family of speaker systems designed to use the trunk as a baffle. In other words, the type of car you drive bears directly on your choice of components. And it's not just size and physical shape that are important but age, value, and the length of time you plan to own the car. Also, your listening habits must be taken into consideration, as well as where you drive (country road vs. freeway), and, of course, how much money you have to spend.

Okay. Let's be specific. For our first example we'll use a six-year-old Ford. It has a roomy interior, and you could install anything from a simple under-dash tuner/amp unit with rear deck speakers to a preamp/tuner/cassette deck with external amp, trunk-mounted woofers, in-dash tweeters, and door-mounted midrange speakers. But if you intend to sell your car in the not too distant future, a simple, easy-to-remove system is a more logical choice.

Cars, such as the Rabbit, have limited interior space and don't have a

Knowing which questions to ask is the most important factor.
Before you buy any car stereo component, make certain that what you have in mind will fit in your car. The only way to determine this is to sit in your car and visualize where the components and speakers would be installed. Be certain that you can reach all the controls easily from the drivers seat, so that you won’t have to take your eyes off the road to install a tape or change a control setting.

rear deck for speaker mounting. You may prefer Bose 1401s or Jensen Triaxials, but circumstances dictate having to settle for lower performance speakers which are thin enough to fit into the door panels. Fitting a separate cassette deck and tuner under the dash would be very difficult, although you could tuck a remote power amp under one of the front seats. Smaller cars also tend to have less soundproofing than larger ones, so a more powerful amp is generally best. Also, quadrophonic sound or a time delay system is generally more effective in a larger car. Vans have almost unlimited space for stereo installations. Remember, though, that interior carpeting will soak up a lot of high frequencies; this may mean that your best choice is a high-power amp.

Now it’s time to go out and sit in your car for a few minutes. Look around. Ask yourself where you would install a complete receiver, or whatever you’re considering—separate amp, preamp, tuner, tape deck. Can you mount the units so that you can change tapes for FM stations easily while driving? Where would the speakers go for ideal listening? Are there locations for separate woofer, tweeter and midrange drivers, or for self-contained mini acoustic suspension systems? Do rear-deck cutouts already exist for oval coaxes or two-way or three-way systems mounted on a plate? Does the dash panel have a cutout for mounting a radio?

Armed with a good idea of what you could possibly install in your car, you’re ready to start reading the product literature. Discard everything that is obviously impractical for your car. If you don’t have a rear deck or trunk, forget about rear-deck trunk-loaded speakers, for example. Remain open-minded about specific brands and models, but decide whether you’re shopping for all-in-ones or separate electronic components, whether you want component speakers, complete systems, or something in between, and if you want tape, FM (or both) or such extras as short wave or CB.

One factor that is often neglected is a proper antenna. If you’re driving an older-model car, the factory-installed antenna may not have been designed for stereo FM. No FM tuner will perform well without a strong signal, a fact your dealer may overlook. Try to determine the quality of your current antenna. New ones, designed specifically for FM stereo, cost
Car stereo specialists (right) tend to have better selections than discount stores (left), but neither can offer a realistic demonstration of how your car system will sound; that can occur only in a car driving on the highway.

between $10 and $85 depending on features such as an electric motor to retract it when not in use. Retractable models are often useful in urban and suburban areas where antenna vandalism is common. So, remember that a good portion of the cost of a retractable model is due to the motor, and that price may not be directly related to better performance.

Now you're ready to go shopping. These days you can buy car stereo equipment at discount department stores, at marinas, from autosound experts doing business in abandoned gas stations, from audio salons, and even through the mail. But where can you see the greatest selection, receive the most intelligent answers to questions, and experience the most realistic demonstration?

To answer the last question first, virtually nowhere, because acoustic conditions in stores—even in a demonstration car parked outdoors—aren't like those on the road at 55 miles per hour. FM reception is different too. Among the worst demonstration facilities are those in discount houses and auto supply shops, where a panel loaded with speakers and a variety of car stereo units attempts to create the illusion of an automobile dashboard. The speakers must compete with store noise, whose character is entirely different from that of road noise. You might just as well save time and skip the demonstration.

Discount houses and auto supply shops are less likely, anyway, to carry audiophile auto components. Your best bet for these is a hi-fi dealer who advertises and maintains a substantial car stereo department, or an autosound specialist whose showroom includes a reasonable selection of car components. Advertisements will give you some idea of the kind of autosound department to expect. If you can't find a car stereo dealer in your area, write to the manufacturers of the components you're considering. Such companies as Clarion, Altec Lansing, Bose, and Jensen will send you a list of retailers in your area. In addition, some companies maintain toll-free phone numbers to supply this information. Check with 800 Information (800-555-1212) for telephone numbers.

Where you buy your equipment should not be based solely on price. Discount stores may be less expensive, but in most cases they also provide
no post-sale services. Dealers who service what they sell—primarily audio retailers and the larger or older audiosound stores—may charge more initially, but in return you usually receive a store warranty in addition to that given by the manufacturer. This means that you need only return a malfunctioning unit to the store instead of having to drive to a factory-authorized service center or ship the unit back to the manufacturer. And remember, fully-installed systems cost about the same. If a dealer who both sells and installs equipment quotes a lower price than his competitor, be sure the “savings” won’t be compensated for in slightly higher installation costs. In short, find out what the price tag includes.

Mail-order dealers obviously can’t offer installation, and usually offer no additional warranty. In return, however, they may offer very low prices. And the better ones offer a wide range of brands and models than most retailers can carry. One of the largest, Crutchfield, in Charlottesville, Va., regularly publishes an excellent catalogue, which not only covers much of the information to be gleaned from a dozen manufacturers’ spec sheets, but also provides excellent advice on how to buy, how to install, and how to upgrade. Unlike some others, Crutchfield maintains a technical department with a toll-free WATS line to dispense advice to customers.

At each store, tell the salesperson what model car you drive, the kind of sound system you’re considering (i.e., component or all-in-one electronics, separate woofer and tweeter separately mounted, drop-in rear-deck plate, enclosed acoustic suspension speakers, which program sources, power requirements, etc.), and something about your budgetary limits. Listen to his suggestions. If he recommends a different approach or different brands or models than your plan calls for, ask him why, and note down his answers. Ask to see and operate the system he recommends as well as the system you were interested in, so that you can note any differences for yourself.

If you’re not sure whether to accept his recommendations, find out whether or not other dealers agree with him. Even better, ask a friend who’s familiar with car stereo systems and who already owns one. Ask before you buy. If you’ve done your homework, you’ll have questions about which speakers can be used with which amplifiers, etc. Most important, determine: (1) the store’s warranty policy—must you deal directly with the manufacturer; will the dealer do it for you; or will the dealer handle service problems himself? Is there a separate store warranty that offers additional services, such as an extra three months on labor or parts? (2) Who will do the actual installing? Does the dealer maintain his own installation setup; does he recommend an independent expeditor; or are you on your own?

If you’re not prepared to do your own installation, and if the store you settle on doesn’t offer that service, ask for the names of a few local installers. Verify that they will put in equipment you’ve bought elsewhere. Most dealers with quality audiosound departments have a working arrangement with one or more installers. Of course, you could install the equipment yourself. The question is, should you?

If you feel at home with electronics and don’t mind working within the confines of your car, you can save a sizable amount of money by doing the job yourself, particularly if your car is an older model. If your system is relatively simple (two speakers to drop into rear-deck cutouts and a receiver to install where the car radio was, for example), the job should take considerably less than an hour and require nothing more than a wire stripper, wrench, and screwdriver. If your car is brand new and you’re going all the way with components, let an expert do the job. He’s generally neater, and it’s possible to blow an amplifier and damage other components if the speaker leads short or there’s an incorrect hookup some-
Should you install your own car stereo system? That depends on whether you're handy with tools, and whether you're ready to accept the possibility that if you connect something incorrectly and damage a component, the repairs may not be covered by the warranty. Professional installers often assume the liability for any damage to your system. Many dealers also offer installation services. At left, installer works behind cramped dashboard of a van to install an amp/equalizer.

where. You may void any warranty coverage by installing it yourself. Generally, if a professional damages the equipment—particularly if he's employed by a franchised dealer or authorized service agency—his company must replace it.

In the beginning we told you to forget about in-store listening demonstrations. So what happens if you get a system that falls below your expectations once it's installed? Some dealers permit you to exchange components, but find out what the dealer's policy is before you buy. Exchanging a component, however, may be expensive, especially if yours is a custom installation in a new car. The component must be very carefully removed—probably by a custom installer—since no dealer will take something back that he can't resell. The cost of initial installation, removal, and installation of the substitute could equal or exceed the cost of the component itself.

Some dealers maintain cars with demonstration systems already installed. This type of field test is certainly better than nothing, and by all means take advantage of such opportunities. Make sure that the demonstration isn't held in the parking lot; you'll want to hear how the FM tuner operates while you're in motion, and what effect road and car noise have on the overall system. Although these demonstrations are not directly relevant to your situation unless your car is very similar in passenger compartment size and acoustics, and the system you're going to buy is identical, they do offer some guidance.

One final suggestion. If you're a little uncertain whether the system you've selected will sound good in your car, you should consider an equalizer. While it's not a cure-all, it does an excellent job of tailoring the sound of everything—especially speakers—to the acoustical peculiarities of your car and the road.

As you can see, planning for and buying a car stereo system is similar in many ways to purchasing a home stereo system. In other ways, though, you're on your own a lot more. Take your time. Choose wisely and carefully. Remember that car stereo specifications are not regulated by the FTC as are those of home components. Remember too that sound demonstrations are basically worthless. You can have an excellent system, but as the adage goes: "There's no free lunch."
One thing is certain: the "best" tape depends on more than one thing. Two primary considerations are what tape your cassette recorder has been adjusted for at the factory and what type(s) of recording you plan to do. But first it's helpful to know how the tape and machine interface and what each tape formulation is composed of.

Modern cassette decks are generally outfitted with switches for changing bias and equalization, thereby providing some versatility in the types of tapes that can be used. Essentially, the controls tailor the electronics of the deck to the tape. To better understand these controls, let's look at the theory behind tape recording.

Some years back, it was a rule that a tape system's high-frequency limit in kHz was equal to the speed at which the tape was traveling. A tape running at 15 ips was capable of flat response to about 15 kHz; one running at 7 1/2 ips experienced high-end dropoff at 7.5 kHz. In short, recording density was limited to about 1,000 cycles per inch of tape.

By this logic, the use of a cassette at 1% speed would be impossible. This isn't the case, of course. Improvements in tape formulation and in magnetic-head design now make it possible to record at densities upwards of 10,000 cycles per inch, and we see cassette recorders capable of 20-kHz response at 1% ips. All this does not negate the truism that the more information one tries to crowd on the tape, the harder the task becomes. The main tool used to overcome tape's inherent short-wavelength losses is record equalization—a form of high-frequency boost.

While specifications might lead you to think that wide-range, flat frequency response is independent of speed considerations, this is true only at relatively low recording levels. At 15 ips, almost no high-frequency boost in the record circuit is needed; at slower speeds, increasing amounts are required.

But equalization doesn't solve everything. Tape has a limited maximum recording level. Once the signal you are putting on the tape is raised beyond that level (by recording pre-emphasis) the tape becomes magnetically saturated (can take no more magnetism) and the signal distorts. Distortion increases gradually from the point where signal level rises above the noise floor, but once saturation is reached, distortion jumps to double-digit numbers.

Tape-recorder manufacturers recognized this fact and set the maximum recording level at a point well below tape saturation. In an open-reel machine, operating at 15 ips, 10 to 15 dB (and even more) of head-
room can exist between the manufacturer's zero VU on his meters and the saturation level of the tape. And since little high-frequency boost was used, this headroom is virtually the same at all frequencies.

What happens at the 1½-ips speed used by cassette decks? The slow speed means that a good deal of record high-frequency boost (10 to 15 dB at 10 kHz) is needed. Therefore, if a manufacturer has provided 6 dB of headroom at 1 kHz, he has run out of headroom (and into saturation) at 10 kHz at zero level. This explains why, when you see a frequency-response curve run at zero VU on a cassette, high frequencies roll off significantly. A response curve run on a cassette at -20 dB avoids high-frequency saturation and so frequency response may "spec" as good as a professional open-reel deck. But with the professional deck, you can achieve 20-kHz response at zero dB.

The amount of recording equalization needed to produce "flat" high-frequency response depends not only on the tape speed but on the characteristics of the tape and heads used. And a key ingredient is bias. The bias level affects both distortion and high-frequency response. Too much bias reduces high-frequency sensitivity; therefore, more recording boost is needed to compensate. That, of course, means even less high-frequency headroom. Too little bias results in greater low-frequency distortion. Suffice it to say that different tapes require different amounts of bias current in order to perform at their best. Improperly set bias affects high-frequency response, headroom, and distortion.

Now, what about the tape itself? Standard tape, both open-reel and cassette, has always been composed of a backing coated with gamma-ferric-oxide particles as the magnetic medium. This finely powdered rust has been the mainstay of the tape industry, and while it continues to serve the open-reel industry well, cassette manufacturers are finding it less than ideal. The first "improved" (high-energy) cassette tapes added very minute amounts of cobalt to the ferric oxide. These tapes had higher "coercivity" and provided better dynamic range (saturation level to noise) especially at high frequencies. The slight performance advantage required a slight change in bias—one that deck manufacturers could easily achieve.

The shape of the frequency response curve depends on the level at which measurements were taken. Response curves shown here were made at -20 dB, -10 dB, 0 dB (or 0 VU), and +10 dB. Note that recording at -20 dB avoids high-frequency saturation, and that the higher the level of recording, the sooner high-frequency rolloff occurs.
Metal-particle tapes offer significant improvement in dynamic range over conventional and chrome tape formulations. Graph compares 3M's Metafine metal tape with its Master II tape and a conventional chrome tape. Essentially, metal tapes allow you to record at higher levels without driving the tape into saturation.

Then DuPont introduced a tape coated with chromium dioxide, a new magnetic formulation, and the revolution in cassette began. Chrome offered a significant improvement in dynamic range at the slow cassette speeds. But it required substantially higher bias, as well as a change in equalization, to provide best frequency response and signal-to-noise ratio. Accordingly, cassette decks were equipped with a switch for chrome recording to increase the bias and to change the equalization appropriately. The "standard" playback equalization setting, which is still used for ferric tapes, is commonly referred to as 120-microsecond equalization; the new equalization required for chrome tapes has been established at 70 microseconds, which continues to be referred to as such.

Advances in technology have yielded improved ferric-oxide formulations, some of which are "chrome-equivalent" and use similar bias and equalization. One tape—ferrichrome—is double-layered, with a ferric-oxide base and a chrome coating over it. It offers the better high end of chrome, along with the extremely good low end of ferric-oxide materials. It requires yet another choice of bias and equalization.

Today's most talked about formulation is a new metal-particle tape. This tape, which essentially uses pure iron alloys (not in oxide form) as the magnetic medium, offers a significant improvement in dynamic range. It requires less high-frequency record equalization than other tapes, but it needs considerably more bias current to record the signal on the tape. Metal tapes promise substantial improvements in signal-to-noise ratio and in high-frequency freedom from saturation.

The industry has settled on the "chrome-standard" 70-microsecond playback equalization for metal tape so that any standard cassette deck with the 70-microsecond (chrome) position can play back this type of tape. However, the bias and recording equalization that are required are so radically different that new cassette decks with metal-record capability must be employed to record on it.

If there were only one manufacturer of tape in the world, matching a tape to a cassette deck would be simple. But there are dozens of manufacturers, and while each manufacturer has a tape that will work with a particular deck, that operative word "work" needs some explaining.
The construction of cassettes is less a factor than it once was. Typical quality construction is visible in this TDK cassette. Tape pancake (A) feeds past molded stud (B) and idler assembly (C), which consists of a stainless-steel pin or axle (D) and a flanged plastic wheel (E). Screws (F) hold shell halves together via molded holes. Hub (G) has, in this case, a C-clamp tape-end lock (H). Shield (I) is a plain rectangle of mumetal; pressure pad (J) is felt, mounted on a metal spring assembly. Viewing window is a separate piece of clear plastic, neatly and securely attached to shell. Slip sheet (L) covers all of both pancakes, with cutouts only for hubs and windows. Ribs (M) not only stiffen shell, but help guide tape onto idler wheel.

Even so-called "standard" tapes—those meant for use with "normal" or "ferric" bias settings—differ substantially from manufacturer to manufacturer. When a manufacturer offers more than one ferric tape, you can rest assured that they will differ in sensitivity and the amount of bias and equalization needed for optimum performance. One tape may be +2 dB at 10 kHz, another, -2 dB. How well a particular tape works on your machine depends on how the deck's manufacturer set the internally-fixed bias and equalization. Frequently, you can only adjust your deck to one of several fixed positions. Thus, any given cassette deck can actually perform differently depending on the type and brand of tape—even though the tapes were designed for the same settings. For optimum performance, it is important to find out what type and brand of tapes your deck was set up for.

Some modern decks have been designed to get around this problem by providing a separate bias adjustment—a kind of vernier control of bias amount around the nominal settings of the switch. Even more advanced are the decks that incorporate microcomputers to automatically set the bias to conform with the type of tape being used. When both recording equalization and bias are microcomputer-adjusted, you have the ultimate in performance potential.

The construction of the cassette itself is less a factor than it once was. Some years ago, a controversy existed over whether internal roller bearings or fixed bearings allowed the best tape motion. Because the mechanical construction of the cassette can profoundly affect overall performance, particularly as regards flutter and the stability of high-frequency response, all quality cassettes now use roller bearings. All manufacturers of quality tape seem to have achieved sufficient reliability, regardless of their approach, so that the cassette shell itself no longer is a significant factor in the purchase of tape. This, of course, does not apply to the so-called "white-box" brands, which we recommend you do not buy.

Should you, then, always use the best tape you can get? No, if only because it can be a considerable waste of money much of the time. It all depends on the types of recordings you plan to make. At one end there is baby's first coo (or cry); at the other end, sophisticated on-location mate-
rial. Four basic categories (recording speech, copying from radio, copying from discs, and recording live music) cover most situations. We'll take these one at a time.

The demands of speech recording require good signal-to-noise but not extended frequency response (as it applies to high-frequency headroom). Accordingly, you can use standard ferric-oxide formulations. For most speech applications, the second line offered by premium manufacturers works well. More exotic formulations offer no particular additional benefits. Stick with name-brand manufacturers; you still want a reliably made cassette shell as well as good quality tape.

If you're thinking of off-the-air taping and your source will be rock radio stations, you can use the premium-ferric type of tape. Most rock stations process their signal via compressors, equalizers, and other devices to reduce dynamic range to a virtual zero. Actually, any tape system with a 30-dB dynamic range will capture most rock and all disco.

A few stations are attempting to offer greater dynamic range. Classical-music stations are the leaders here, but even rock stations have discovered that listeners want quality. Some stations (WNCN in New York and WFMT in Chicago, for example) offer signal-to-noise figures in excess of 70 dB, but they are clearly the exception. All stations are limited to approximately 15 kHz at the high end, because they must suppress the audio to prevent it from interfering with the 19-kHz stereo-pilot signal.

For high-quality, wide-dynamic-range signals, we suggest the chrome (or chrome-equivalent) tapes. One note of caution when recording rock music: Don't modulate the audio at zero on your tape deck; use -10 dB as a reference. This will better control the middle-high-frequency accenting of some rock stations, and prevent further distortion.

Until recently, we would have recommended that you use the same tapes for recording from discs as you would for taping from the radio, with the additional warning that the high energy on the discs at high frequencies can overload the tape unless you lower the record level somewhat.

The new technology of direct-to-disc and digital mastering of the discs has altered this recommendation. If you plan to copy such audiophile discs, begin with the premise that you will not be able to transfer to any cassette the full dynamics and frequency response of the disc. The best copy will be that which follows the suggestions for live-music recording.

What we suggest here encompasses a solo guitarist or other soloist recorded at home, to a rock band, to a chamber orchestra, and to a full symphony orchestra. Let's begin with the understanding that any recording of live music requires more dynamic capability than any tape can give you. A noise-reduction system, such as Dolby-B, which is standard on virtually all quality cassette decks, increases the dynamic-range capability of the tape and should always be used.

In live recording, or in audiophile-disc dubbing, you want the best tape possible. Metal tape seems to be the ultimate choice because of its performance superiority at cassette speeds. There are certain instruments you should beware of, notably those that are percussive or plucked, such as piano and guitar. They produce intense spikes that overload any tape if the level is too high, and therefore should not be recorded at zero recording level even on high-speed open-reel decks. If you bring the level down to about -12 dB or so, a metal-equipped cassette deck can, and will, produce a master tape with impressive sound.

Which tape is best? By this time, you may have answered that question for yourself. Always buying the best tape can result in overkill. Sure you can use a metal-particle tape to record the baby's first word, but will you get a better recording? The only certainty is that you will be recording on a more expensive tape. **HF**
Buying Guide to more than 3,000 Stereo Components

There are literally thousands of stereo components available today, and as we've pointed out elsewhere in this magazine, one of the best ways to select the units you want is to compare what's available. We think this special buying guide section is a good place to begin. Here's how to use it to your best advantage.

First, we make no claims that we have tested any of the equipment listed here, nor that the specs represent lab results. In compiling the information, we faced a problem: since not all manufacturers rate their equipment in the same way, and since it would be impossible for us to test every piece of equipment, how could we come up with comparable data that would allow you—the buyer—to use this information effectively?

We settled on a series of guidelines, which we sent to the manufacturers and asked them to adhere to when providing the performance specs. If they deviated from the guidelines, we asked them to state how they had obtained their particular measurements. Where a particular spec does not appear, it means that the manufacturer did not supply it. N/A, or "not available," is generally re-
served for new products on which complete information was unavailable at press time. Prices were supplied by the manufacturer, and may vary from area to area and among stores. Because of space limitations, not every model produced by every manufacturer has been fully listed. Those on which complete specifications do not appear are summarized below. And may vary from area to area and among stores. The information was unavailable at press time. Some noise-reduction devices are special-purpose components that compress dynamic values for recording or broadcast and supply reciprocal expansion for playback or reception. With only rare exceptions, the same system must be used in both "encoding" (compression) and "decoding" (expansion) if dynamic values—and, often, other sound properties—are to be restored accurately. This makes most systems mutually incompatible. The amount of compression and/or expansion is expressed as a ratio.

**Power Amplifiers.** Manufacturers were asked to specify power in watts (and dBW) delivered on a continuous basis into a specified resistance in ohms over a specified frequency range at a specified percentage of total harmonic distortion (THD). An intermodulation distortion (IM) rating was requested as a percentage at a specified output in watts. Frequency response was to be reported over a frequency range of the manufacturer's choice, plus or minus a dB figure, also of the manufacturer's choice. Signal-to-noise ratio (S/N) was to be expressed in dB with a specified weighting relative to a specified output in watts.

**Preamplifiers.** Specifications requested included frequency response, output in volts, THD expressed as a percentage, IM expressed as a percentage, sensitivity of both phono and high-level inputs expressed in millivolts, the no-overload point in millivolts, and phono equalization specifications. Also requested were bass, midrange (if available), and treble control ranges, along with high- and low-filter turnover points and slopes.

**Integrated Amplifiers.** Because these combine the characteristics of power amps and preamps, all of the above specifications were requested.

**Turntables.** Five types are covered: manual (single-play, no automatic features on tonearm); semiautomatic (raises and returns arm at end of play); fully automatic (positions arm at lead-in groove automatically and returns arm to rest at end of play); automatic repeat (fully automatic with repeat-play capability); and changer (fully automatic with multiple-record capability). All turntables are presumed to have cueing levers, unless otherwise indicated. Manufacturers were requested to specify rumble in dB, referenced to a specific standard, wow and flutter in percent, and the specific measuring method, the recommended tracking force range, and the range of tracking error in degrees and minutes.

**Tonearms.** Length is measured from pivot to stylus. Friction is specified in milligrams. Resonance point is specified in Hz with reference to a specific cartridge.

**Phono Cartridges.** Both lateral and vertical compliance were requested. Output was to be referenced to a certain number of centimeters-per-second at a specific frequency. Separation was to be measured at 1 kHz.

**Open-Reel Decks.** Reel size refers to the largest reel the deck can accommodate. Flutter and frequency response were requested for each of the deck's playing speeds. Separation and erasure were to be measured at 1 kHz. Each manufacturer was asked to specify a = 1 recommended tape and a = 2 recommended tape, and to supply performance specifications using the recommended tapes.

**Cassette Decks.** The same information was requested for cassette decks as for open-reel decks.

**Speaker Systems.** Manufacturers were requested to designate the design of the speaker system, the number and type of drivers, the system's response with reference to a certain number of dB SPL measured at one meter at one watt, the recommended minimum and maximum power in watts and dBW, the crossover points, and any special controls.

**Equalizers.** "Bands" refers to the number of equalization points in each channel, and "range" specifies the degree (in dB) to which each band can be adjusted. A parametric equalizer is one in which the center frequency of the bands can be adjusted.

**Signal Processors.** These include both noise-reduction units, and what might be called a variety of signal-enhancement devices. An expander (sometimes called a "dynamic range enhancer") exaggerates loudness differences in the program source and is used to compensate for the compression system often used in recording and broadcasting. While compression can help prevent distortion in the loudest signals (and masking of the quietest by noise), it can also complicate the program material, sometimes dramatically. Expansion can restore the original dynamics precisely only when the compression characteristics are known and the expander is designed to react reciprocally to them. Compressors offer both compression and expansion of signal dynamics, usually with options of "expanding" the program in one of two modes of operation.

**Accessories.** Essentially, this is a wide-open category where manufacturers were simply requested to "describe" the item. In most cases the listings represent only a sampling of a company's entire accessory line. Complete catalogues generally are available directly from the particular company.
# Amplifiers

## (including Power Amps, Preamps, and Integrated Amps)

### ACE
Ace Audio Co.
532 5th St.
East Northport, N.Y. 11731

### 3100 Preamplifier
- **Price**: $325 (wired)
- **Dimensions**: 2¼H x 14¼W x 7D (separate power supply, 3½ x 3 x 2)
- **Weight**: 5 lbs.
- **Inputs**: Phono, 2 tape; tuner; aux
- **Response**: 20 Hz to 20 kHz, ±0.1 dB
- **Output**: 10V
- **THD**: 0.02%
- **IM**: 0.02%
- **Sensitivity**: 1 mV (phono); 100 mV (high level)
- **Overload**: 90 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.5 dB
- **Features**: Two-way tape dubbing; separate power supply for lowest possible hum and noise on phono

### 35x2 Super Power Amplifier
- **Phono EO**
- **Overload**
- **Sensitivity**
- **IM**: 0.02%
- **THD**:
- **Output**
- **Response**
- **Inputs**
- **Weight**
- **Dimensions**
- **Price**: 3100 Preamplifier
- **Price**: $189; 2 or more $185 each

### Analogue
- **515 Moving-Coil Cartridge Preamplifier**
- **Price**: $225
- **Dimensions**: 4½H x 9¼W x 3¼D
- **Weight**: 4 lbs.
- **Inputs**: Phono
- **Response**: 10 Hz to 30 kHz, ±0.5 dB
- **Output**: 0.05V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 0.005 mV (phono)
- **Overload**: 35 mV (phono)

### Models also available
- Analogue 610 Power Amplifier, $850

### AGI
Audio General, Inc.
1631 Easton Road
Willow Grove, Pa. 19090

### 51A Preamplifier
- **Price**: $495
- **Dimensions**: 5½H x 14W x 10D
- **Weight**: 13 lbs.
- **Inputs**: Phono; 2 tape; tuner; aux
- **Response**: 20 Hz to 20 kHz, ±0.1 dB
- **Output**: 5V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 5.1 mV (phono); 230 mV (high level)
- **Overload**: 160 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.25 dB
- **High filter**: 12 dB/octave at user-specified frequency
- **Low filter**: 12 dB/octave at user-specified frequency
- **Features**: Two-way tape dubbing; "Tone Sand" button for external equalizer; 250V/microsecond phono slew rate; optional high-gain phono at no extra charge; optional filter, $50

### AiWA
Aiwa America
35 Oxford Dr.
Moonachie, N.J. 07074

### 511A Preamplifier
- **Price**: $395
- **Dimensions**: 5½H x 14W x 10D
- **Weight**: 3 lbs.
- **Inputs**: Phono; 2 tape; tuner; aux
- **Response**: 20 Hz to 20 kHz, ±0.1 dB
- **Output**: 5V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 5.1 mV (phono); 230 mV (high level)
- **Overload**: 160 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.25 dB
- **High filter**: 12 dB/octave at user-specified frequency
- **Low filter**: 12 dB/octave at user-specified frequency
- **Features**: Two-way tape dubbing; "Tone Sand" button for external equalizer; 250V/microsecond phono slew rate; optional high-gain phono at no extra charge; optional filter, $50

### Models also available
- Analogue 610 Power Amplifier, $850

### AEA
Analog Engineering Associates, Inc.
520 Park Ave., S.
Winter Park, Fla. 32789

### Analogue 620 Power Amplifier
- **Price**: $340
- **Dimensions**: 7½H x 19W x 16¼D
- **Weight**: 78 lbs.
- **Power**: 350 watts (25.5 dBW) continuous into 8 ohms from 10 Hz to 40 kHz at no more than 0.08% THD
- **IM**: 0.02% at 350 watts
- **Response**: 10 Hz to 40 kHz, ±0.5 dB
- **S/N**: 110 dB (A-weighted re 350 watts)
- **Features**: Slow rate, 65V/μs; peak-reading meters; overload protection

### Analogue 520 Preamplifier
- **Price**: $600
- **Dimensions**: 4¾H x 14W x 11¾D
- **Weight**: 11 lbs.
- **Inputs**: 2 phono, 2 tape; tuner; aux
- **Response**: 10 Hz to 60 kHz, ±0.5 dB
- **Output**: 1V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 1.7 mV (phono); 100 mV (high level)
- **Overload**: 125 mV (phono)
- **Phono EQ**: 20 Hz to 60 kHz, ±0.5 dB
- **Bass control**: +12 dB at 50 Hz
- **Trebly**
- **High filter**: 6 dB/octave above 7.5 kHz
- **Low filter**: 12 dB/octave below 15 Hz
- **Features**: All components to NASA specifications

### Analogue 515 Moving-Coil Cartridge Preamplifier
- **Price**: $225
- **Dimensions**: 4½H x 9¼W x 3¼D
- **Weight**: 4 lbs.
- **Inputs**: Phono
- **Response**: 10 Hz to 30 kHz, ±0.5 dB
- **Output**: 0.05V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 0.005 mV (phono)
- **Overload**: 35 mV (phono)

### Models also available
- Analogue 610 Power Amplifier, $850

### AA-8700U Integrated Amplifier
- **Price**: $850
- **Dimensions**: 6 3/16H x 18 9/16W x 14 13/15D
- **Weight**: 38 lbs. 6 oz.
- **Inputs**: 2 phono, tape; tuner; aux
- **Power**: 75 watts (18.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
- **IM**: 0.02% at 75 watts
- **Response**: 5 Hz to 100 kHz, ±0.3 dB
- **Sensitivity**: 2.5 mV (moving magnet); 220 mV (moving coil), 150 mV (high level)
- **Overload**: 280 mV (phono)
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Power</th>
<th>S/N</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SA-P22U Power Amplifier</strong></td>
<td></td>
<td>$210</td>
<td>5 7/16H x 8 5/16W x 3 1/16D</td>
<td>6 lbs.</td>
<td>30 watts (14.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.06% THD</td>
<td>0.1%</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>SA-C22U Preamplifier</strong></td>
<td></td>
<td>$140</td>
<td>2 13/16H x 8 5/16W x 6 1/6D</td>
<td>3 lbs.</td>
<td>0.01% at 200 watts</td>
<td>350 watts (25.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD</td>
<td>0.01%</td>
</tr>
<tr>
<td><strong>Holman Amplifier</strong></td>
<td></td>
<td>$493 (East coast), $502 (West coast)</td>
<td>3 1/16H x 15 1/32W x 8 1/5D</td>
<td>20 lbs.</td>
<td>450 watts (28.00 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.006% THD</td>
<td>0.005% at 185 watts</td>
<td>0.005% at 350 watts</td>
</tr>
<tr>
<td><strong>1 Power Amplifier</strong></td>
<td></td>
<td>N/A</td>
<td>3 1/8H x 15 1/32W x 10 1/4D</td>
<td>80 lbs.</td>
<td>200 watts (23 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD</td>
<td>15 Hz to 40 kHz, ±3 dB</td>
<td>106 dB (unweighted re 1 watt)</td>
</tr>
<tr>
<td><strong>AM-2850 Integrated Amplifier</strong></td>
<td></td>
<td>$475</td>
<td>7 1/10H x 17 3/10W x 6 9/10D</td>
<td>105 lbs.</td>
<td>500 watts (30.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD</td>
<td>350 watts (22.75 dBW) continuous into 8 ohms from DC to 50 kHz at no more than 0.005% THD</td>
<td>Fans; meters; relays and logic for load protection, industrial grade components and construction; rated for commercial service</td>
</tr>
<tr>
<td><strong>ARMSTRONG</strong></td>
<td></td>
<td>$3,250</td>
<td>10 1/4H x 19W x 17 1/4D</td>
<td>85 lbs.</td>
<td>350 watts (25.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.25% THD</td>
<td>75 watts (18.75 dBW) continuous into 4/8/16 ohms from 20 Hz to 20 kHz at no more than 1% THD</td>
<td>Vacuum tube amplifier; meters; fans, level controls; industrial grade components and construction</td>
</tr>
<tr>
<td><strong>D-350B Power Amplifier</strong></td>
<td></td>
<td>$3,500</td>
<td>10 1/8H x 19W x 17 1/4D</td>
<td>21 lbs.</td>
<td>40 watts (16 dBW) continuous into 8 or 16 ohms from 20 Hz to 20 kHz at no more than 0.08% THD</td>
<td>20 Hz to 20 kHz, ±1 dB</td>
<td>100 watts (15 dBW) continuous into 8 ohms from 1 Hz to 20 kHz at no more than 0.25% THD</td>
</tr>
<tr>
<td><strong>D-79 Power Amplifier</strong></td>
<td></td>
<td>$1,495</td>
<td>7 1/4H x 19W x 10 1/2D</td>
<td>44 lbs.</td>
<td>100 watts (20 dBW) continuous into 8 ohms from 1 Hz to 20 kHz at no more than 0.25% THD</td>
<td>40 Hz to 20 kHz, ±1 dB</td>
<td>20 Hz to 20 kHz, ±1 dB</td>
</tr>
<tr>
<td><strong>D-100B Power Amplifier</strong></td>
<td></td>
<td>$1,995</td>
<td>7 1/4H x 19W x 10 1/2D</td>
<td>44 lbs.</td>
<td>100 watts (20 dBW) continuous into 8 ohms from 1 Hz to 20 kHz at no more than 0.25% THD</td>
<td>40 Hz to 20 kHz, ±1 dB</td>
<td>20 Hz to 20 kHz, ±1 dB</td>
</tr>
</tbody>
</table>
A Note on Prices
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

AUDIOPHILE by
SUPEREX
Supercy Electronics Corp.
151 Ludlow St.
Yonkers, N.Y. 10705

1500 Power Amplifier
Price $775
Dimensions 5H x 19W x 12D
Power 85 watts (19.25 dBW) continuous into 8 ohms from 8 Hz to 150 kHz at no more than 0.1% THD
IM 0.1% at 85 watts
Response 8 Hz to 150 kHz, ±0.5 dB
S/N 115 dB (A-weighted re 85 watts)
Features Class A design

1550 Power Amplifier
Price $550
Dimensions 5H x 19W x 12D
Power 50 watts (17 dBW) continuous into 8 ohms from 8 Hz to 150 kHz at no more than 0.1% THD
IM 0.1% at 50 watts
Response 8 Hz to 150 kHz, ±0.5 dB
S/N 115 dB (A-weighted re 50 watts)
Features Class A design

Audiomatics
Audiomatics of Oregon
10950 S.W. 5th St.
Building 160
Beaverton, Ore. 97005

BA-150 Power Amplifier
Price $2,950
Dimensions 10 x 19 x 14
Weight 85 lbs.
Power 150 watts (21.75 dBW) continuous into 8 ohms from 8 Hz to 20 kHz at no more than 0.1% THD
IM 0.25% at 150 watts
Response 30 Hz to 30 kHz, ±0.5 dB
S/N 90 dB (weighted re 150 watts)
Features Hybrid analog/digital design with patented tube output stage allowing cool operation; all bias functions controlled by digital computer

BP-1 Mono Power Amplifier
Price $499
Dimensions 5 x 19 x 14

Models also available
D-110B Power Amplifier, $2,750;
D-528 Power Amplifier, $1,195;
SP-4A Preamplifier, $1,195

BEDINI
Bedini Electronics, Inc.
13000 San Fernando Rd.
Sylmar, Calif. 91342

1980 Edition
### 203 Preamplifier

**Price**: $710  
**Dimensions**: 5½H x 19W x 11½D  
**Weight**: 18 lbs 8 oz  
**Inputs**: 2 phone, 2 tape, 1 tuner, 2 aux  
**Response**: 20 Hz to 20 kHz, ±0.25 dB  
**Output**: 4V (rated) (8V max into 600 ohms)  
**THD**: 0.01%  
**IM**: 0.01%  
**Sensitivity**: 1.35 mV (phone), 10V (high level)  
**Overload**: 100 mV (phone)  
**Phone EQ**: 20 kHz to 20 kHz, ±0.25 dB  
**Bass control**: ±18 dB at 50 Hz (in precise 3 dB steps)  
**Treble**: ±18 dB at 15 kHz (in precise 3 dB steps)  
**High filter**: 18 dB/octave above 12 kHz  
**Low filter**: 18 dB/octave below 20 Hz  
**Features**: One-way tape dubbing, two-way tape dubbing, seven-position mode control; Class A circuitry; individual channel tone controls; precision detented volume and balance controls, separate power and preamp power switches; provision for 12V relay signal; front panel dubbing jacks (phone stage gain is 42 dB, line amp gain is either 22 dB or 10 dB); to produce 2 volts output at the main output terminals with full gain the input required; would therefore be 1.3 or 5 millivolts, front panel gain switch therefore accommodates a wide range of cartridges  
**Dimensions**: 5½H x 19W x 11½D  
**Price**: $756  
**Response**: 20 Hz to 20 kHz  
**Impedance**: 100 mV (phone)  
**Output**: 20 kHz to 20 kHz  
**Features**: One-way tape dubbing, equalized tape outputs; separate bass and treble for each channel; all-silicon discrete circuitry  

### 929 Preamplifier

**Price**: $940  
**Dimensions**: 5½H x 17½W x 12D  
**Weight**: 46 lbs  
**Power**: 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.2% THD  
**IM**: 0.2% at any wattage below 150 watts  
**Response**: 20 Hz to 20 kHz, ±0.1 dB  
**IM**: 0.01%  
**Sensitivity**: 2.5 mV (phone), 250 mV (high level)  
**Output**: 10V  
**THD**: 0.1%  
**IM**: 0.1%  
**Sensitivity**: 2.5 mV (phone), 250 mV (high level)  
**Output**: 10V  
**Features**: DC protection; input-level controls; thermal protection; all-silicon circuitry; direct-reading power meters  

### Models also available

TC-225 Power Amplifier, $390  
BOZAK功率放大器，$325  
919 Preamplifier, $785; 939 Power Amplifier, $550  
CMA-10-2DL Stereo Mixer/Preamplifier

**Price**: $625  
**Dimensions**: 5½H x 17½W x 6½D  
**Weight**: 21 lbs  
**Inputs**: 2 phone, 2 tape, 1 tuner, 2 aux  
**Response**: 20 Hz to 20 kHz, ±0.25 dB  
**Output**: 2.5 V (±24 dBm maximum)  
**THD**: 0.2%  
**IM**: 0.1%  
**Sensitivity**: 1 mV (phone), 140 mV (high level)  
**Overload**: 100 mV (phone)  
**Phone EQ**: 30 Hz to 15 kHz, ±0.5 dB  
**Bass control**: ±10 dB at 50 Hz  
**Treble**: ±10 dB at 10 kHz  
**Features**: One-way tape dubbing, equalized tape outputs; separate bass and treble for each channel; all-silicon discrete circuitry  

### Models also available

919 Preamplifier, $785; 939 Power Amplifier, $550  

### BRYSTON

Bryston Vermont (Distributor)  
RFD 4, Berlin  
Montepelier, Vt. 05602

### 3B Power Amplifier

**Price**: $785  
**Dimensions**: 5½H x 19W x 9D  
**Weight**: 35 lbs  
**Power**: 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  

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**BERNING**  
Precedent Audio Products, Inc.  
306 E. Oliver St.  
Baltimore, Md. 21202

**TF-10 Preamplifier**  
**Price**: $1395  
**Dimensions**: 3½H x 19W x 12D  
**Weight**: 6 lbs  
**Inputs**: 3 phone, 2 tape, 1 tuner, 2 aux  
**Response**: 10 Hz to 100 kHz, ±0.05 dB  
**Output**: 8V (into 10k)  
**THD**: 0.5%  
**IM**: 0.5%  
**Sensitivity**: 0.8 mV (phone), 60 mV (high level), ref 1V out  
**Overload**: 130 mV (phone)  
**Phone EQ**: 20 Hz to 20 kHz, ±0.25 dB  
**Features**: One-way tape dubbing, two-way tape dubbing, remote mute, passive RIAA local feedback only; monitoring of any input, individually buffered tape outputs for each tape out

**BEVERIDGE**  
Harold Beveridge, Inc.  
505 E. Montecito  
Santa Barbara, Calif. 93103

**RM-1 Preamplifier**  
**Price**: $2,000  
**Dimensions**: 3½H x 19W x 9¼D  
**Inputs**: 2 phone, 2 tape, 1 tuner, 1 aux  
**Response**: 0.15 Hz to 600 kHz, ±0.05 dB  
**Output**: 1V  
**THD**: 0.05%  
**IM**: 0.05%  
**Sensitivity**: 20 mV (phone), 100 mV (high level)  
**Overload**: 1,000 mV (phone)  
**Phone EQ**: 0.15 Hz to 600 kHz, ±0.005 dB  
**High filter**: 6/12/18 dB/octave above 20 kHz (progressive)  
**Low filter**: 1/36 dB/octave below 20 Hz (progressive)  
**Features**: Two-way tape dubbing; separate power supply

**BGW**  
BGW Systems, Inc.  
13130 S. Yukon Ave.  
Hawthorne, Calif. 90250

**410 Power Amplifier**  
**Price**: $879  
**Dimensions**: 5½H x 19W x 11½D  
**Weight**: 35 lbs  
**Power**: 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.07% THD  
**IM**: 0.02% from 20 Hz to 200 watts  
**Response**: 3 Hz to 100 kHz, ±0.3 dB  
**S/N**: 110 dB (unweighted re 200 watts)

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**Models also available**  
TC-225 Power Amplifier, $390
### 1B Preamplifier

**Price** $395  
**Dimensions** 31/4 H x 19 W x 10 D  
**Weight** 25 lbs.  
**Power** 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM** 0.025% at 220 watts  
**S/N** 100 dB (unweighted re 220 watts)  
**Response** 10 Hz to 20 kHz, ±0.25 dB  
**Output** 200 mV (phone); 200 mV (high level)  
**Phono EQ** 100 mV (phone)  
**Light filter** 6 dB/octave above 50 Hz  
**Model available** C-500 Power Amplifier, $689

### 2B Power Amplifier

**Price** $1,495  
**Dimensions** 74 H x 19 W x 14 D  
**Weight** 55 lbs.  
**Power** 220 watts (23.5 dBW) continuous into 8 ohms from DC to 20 kHz at no more than 0.05% THD  
**IM** 0.002% at 220 watts  
**Response** DC to 100 kHz, ±1 dB  
**S/N** 115 dB at full rated output  
**Features** Two-speed fan cooling (inaudible); remote mute; stereo mono switch; four on-board computers that analyze demand and immediate history of amplifier and load to deliver maximum safe output power; walnut veneer or rosewood cabinets available; IOC Music Distortion Indicator

### CM-920 Power Amplifier

**Price** $999  
**Dimensions** 7 x 19 W x 10 D  
**Weight** 50 lbs.  
**Power** 225 watts (23.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD  
**IM** 0.1% at 225 watts  
**Response** 5 Hz to 100 kHz, ±1 dB  
**S/N** 100 dB (unweighted re 225 watts)  
**Features** LED output indicators; input level controls; speaker-protection relays

### CM-300 Preamplifier

**Price** $549  
**Dimensions** 5 1/4 H x 19 W x 17 D  
**Weight** 30 lbs.  
**Power** 20 Hz to 20 kHz, ±0.25 dB  
**IM** 0.05%  
**Sensitivity** 0.1 mV (phone); 50 mV (high level)  
**Response** 20 Hz to 20 kHz, ±0.02 dB  
**Output** 100 mV (phone)  
**Phono EQ** 20 Hz to 20 kHz, ±0.5 dB  
**Light filter** 6 dB/octave below 50 Hz  
**Model available** CM-914a Power Amplifier, $499; CM-610 Preamplifier, $399

### CM-620 Preamplifier

**Price** $499  
**Dimensions** 10 1/4 H x 19 W x 7 D  
**Weight** 16 lbs.  
**Power** 3 phone, 2 tape; 1 tuner; 2 mic; 1 aux  
**IM** 0.05%  
**Sensitivity** 0.5 mV (phone); 50 mV (high level)  
**Response** 20 Hz to 20 kHz, ±0.2 dB  
**Output** 10V  
**Phono EQ** 20 Hz to 20 kHz, ±0.1 dB  
**Light filter** 6 dB/octave above 50 Hz  
**Model available** CM-914a Power Amplifier, $499; CM-610 Preamplifier, $399

### CM-301 Preamplifier

**Price** $250  
**Dimensions** 1 1/4 H x 19 W x 8 D  
**Weight** 5 lbs.  
**Inputs** Phone, tape; tuner; aux  
**IM** 0.01%  
**Sensitivity** 1.6 mV (phone); 200 mV (high level)  
**Response** 2 Hz to 80 kHz, ±0.5 dB  
**Output** 2V (rated 10V max)  
**Phono EQ** 20 Hz to 20 kHz, ±0.25 dB  
**Light filter** 6 dB/octave below 50 Hz  
**Model available** CM-914a Power Amplifier, $499; CM-610 Preamplifier, $399

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**Models also available** CM-914a Power Amplifier, $499; CM-610 Preamplifier, $399

**CROWN**

**Crow International**

**Address** 1718 W. Mishawaka Road  
**City/State** Elkhart, Ind. 46514

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**SA-2 Power Amplifier**

**Price** $1,495  
**Dimensions** 74 H x 19 W x 143/4 D  
**Weight** 57 lbs.  
**Power** 220 watts (23.5 dBW) continuous into 8 ohms from DC to 20 kHz at no more than 0.05% THD  
**IM** 0.002% at 220 watts  
**Response** DC to 100 kHz, ±1 dB  
**S/N** 115 dB at full rated output  
**Features** Two-speed fan cooling (inaudible); remote mute; stereo mono switch; four on-board computers that analyze demand and immediate history of amplifier and load to deliver maximum safe output power; walnut veneer or rosewood cabinets available; IOC Music Distortion Indicator

**PSA-2 Power Amplifier**

**Price** $1,495  
**Dimensions** 74 H x 19 W x 143/4 D  
**Weight** 57 lbs.  
**Power** 220 watts (23.5 dBW) continuous into 8 ohms from DC to 20 kHz at no more than 0.05% THD  
**IM** 0.002% at 220 watts  
**Response** DC to 100 kHz, ±1 dB  
**S/N** 115 dB at full rated output  
**Features** Two-speed fan cooling (inaudible); remote mute; stereo mono switch; four on-board computers that analyze demand and immediate history of amplifier and load to deliver maximum safe output power; walnut veneer or rosewood cabinets available; IOC Music Distortion Indicator
### Power Line One Power Amplifier
**Price**: $499  
**Dimensions**: 3⅜h x 19w x 2⅛d  
**Weight**: 15 lbs.  
**Features**: Separate phono preamp module; precision-stepped gain control in 2 dB steps; preamp overload indicators; stepped rotary balance control; handles standard, walnut or rosewood cabinets optional.

### SPA Preampifier
**Price**: $1,399 (with head amp)  
**Dimensions**: 3⅝h x 19w x 13d  
**Weight**: 20 lbs.  
**Features**: Separate phono preamp; high current buffer amplifier; precision stepped gain control in 2 dB steps; preamp overload indicators; precision stepped rotary balance control; handles standard, walnut or rosewood cabinets optional.

### DBR-15A Preamplifier
**Price**: $799.95 (requires DB-2 power supply, $62)  
**Dimensions**: 3⅜h x 9⅞w x 7d  
**Weight**: 5 lbs.  
**Inputs**: 2 aux  
**Response**: 2 Hz to 50 kHz, ±0.1 dB  
**Output**: 10V  
**THD**: 0.0008%  
**IM**: 0.001%  
**Sensitivity**: 1.8 mV (phono); 120 mV (high level)  
**Overload**: 150 mV (phono)  
**Phono EQ**: 10 Hz to 40 kHz, ±0.07 dB  
**Bass control**: ±15 dB at 50 Hz  
**Treble**: ±15 dB at 15 kHz  
**Features**: One-way tape dubbing, spectrum balance control.

### DB-4A Pre-Preamplifier
**Price**: $175  
**Dimensions**: 2⅛h x 6⅛w x 4⅛d  
**Weight**: 1 lb.  
**Inputs**: Moving-coil cartridge  
**Response**: 10 Hz to 100 kHz, ±0.1 dB  
**Output**: 1V (max)  
**THD**: 0.008%  
**IM**: 0.001%  
**Sensitivity**: 0.001%  
**Features**: Three gain settings.

### DM-73S Power Amplifier
**Price**: $1,000  
**Dimensions**: 8H x 14W x 14D  
**Weight**: 50 lbs.  
**Power**: 35 watts (15.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD  
**IM**: 0.05%  
**Response**: 20 Hz to 20 kHz  
**Features**: Tube design.

### Antares Power Amplifier
**Price**: $450  
**Dimensions**: 5¼h x 19⅞w x 8d  
**Weight**: 35 lbs.  
**Models also available**:  
SFS Mk 3 Preamplifier, $599

### DB SYSTEMS
**P.O. Box 187**  
**Jaffrey Center, N.H. 03454**

### DB SYSTEMS
**P.O. Box 187**  
**Jaffrey Center, N.H. 03454**

### SIRIUS PREAMPLIFIER
**Price**: $350  
**Dimensions**: 1¼h x 19⅞w x 6d  
**Weight**: 6 lbs.  
**Inputs**: 1 phono, 1 tape, 1 tuner, 1 aux  
**Response**: 0 Hz to 100 kHz, ±0.1 dB  
**Output**: 5V  
**THD**: 0.001%  
**IM**: 0.001%  
**Features**: One-way tape dubbing, plug-in crossover (2 or 3 way) available, 40 or 60 dB selectable phono gain.

### DENON
**American Audioport, Inc.**  
**1407 N. Providence Road**  
**Columbia, Mo. 65201**

### POA-1003 Power Amplifier
**Price**: $900  
**Dimensions**: 200mm H x 410mm W x 280mm D  
**Weight**: 48 lbs 6 oz.  
**Power**: 85/100 watts (19.25/20 dBW) continuous into 8/4 ohms from 20 Hz to 20 kHz at no more than 0.03% THD  
**IM**: 0.02% at 85 watts into 8 ohms  
**Response**: 0 Hz to 100 kHz +0, -1 dB  
**S/N**: 119 dB (A-weighted re 85 watts)  
**Features**: Two separate power-supply transformers; damping factor of 200; golden RCA connectors; large peak meters; inboard protection; A/B speaker switching for each channel.

### PMA-850 Integrated Amplifier
**Price**: $800  
**Dimensions**: 164mm H x 434mm W x 400mm D  
**Weight**: 37 lbs. 6 oz.  
**Inputs**: 3 phono, 2 tape, 1 tuner, 1 aux  
**Power**: 85 watts (19.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD  
**IM**: 0.02% at 85 watts  
**Response**: 5 Hz to 100 kHz, ±0.1 dB  
**S/N**: 320 mV (high level), 0.37 mV/40 ohms (moving coil input)  
**Features**: Separate power-supply transformers; damping factor of 200; golden RCA connectors; large peak meters; inboard protection; A/B speaker switching for each channel.

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**High Fidelity's Buying Guide to Stereo Components**
## Carver C-4000

- **Power Output**: 100 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **Sensitivity**: 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **IM**: 0.02% at 80 watts
- **Power**: 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **IM**: 0.02% at 80 watts
- **Price**: $399.95
- **Dimensions**: 5.54 x 17.13 x 13.35 in
- **Weight**: 22 lbs
- **Inputs**: 2 phono; 2 tape; 1 aux
- **Outputs**: 2 phono; 2 tape; 1 aux
- **S/N**: 105 dB (A-weighted re 100 watts)
- **Features**: Full 2-way tape dubbing; 5-band graphic equalizer ±10 dB at 50 Hz, 250 Hz, 1 kHz, 4.5 kHz, 15 kHz; large power meters; 6-position tape selector

## Crown SA-2

- **Power Output**: 100 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **Sensitivity**: 100 dB (aux); 65 dB (phono moving coil)
- **Power**: 200 mV (phono); 6 mV (phono moving coil)
- **S/N**: 2030 mV (phono); 6 mV (phono moving coil)
- **Price**: $399.95
- **Dimensions**: 213 x 14 Lassen St.
- **Weight**: 22 lbs
- **Inputs**: 2 phono; 2 tape; 1 aux
- **Outputs**: 2 phono; 2 tape; 1 aux
- **S/N**: 10 dB at 50 Hz, 250 Hz, 1 kHz, 4.5 kHz, 15 kHz
- **Features**: 14-channel preamp; selectable tone control; controls for mono 150 watts into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD

## Eumig M-1000

- **Inputs**: 2 phono; 2 tape; 1 mic; 1 aux
- **Response**: 10 Hz to 50 kHz, ±1 dB
- **THD**: 0.01%
- **IM**: 0.01%
- **Sensitivity**: 2.1 mV (phono); 0.2 mV (high level)
- **Overload**: 115 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.5 dB
- **Bass control**: ±10 dB at 50 Hz
- **Trebles**: ±10 dB at 15 kHz
- **High filter**: 15 dB/octave (~10 dB at 10 kHz)
- **Low filter**: 6 dB/octave (~4 dB at 10 Hz)
- **Features**: Two-way tape dubbing; moving-coil cartridge phono input
- **Price**: $750
- **Dimensions**: 213 x 14 Lassen St.
- **Weight**: 22 lbs
- **Inputs**: 1 phono; 2 tape; 1 aux
- **Outputs**: 2 phono; 2 tape; 1 aux
- **S/N**: 105 dB (A-weighted re 100 watts)
- **Features**: compact size

## EDINBURGH WIRELESS CO.

- **Import Audio 13430 Clayton Rd. St. Louis, Mo. 63131**

## Models also available

- **PMA-630 Integrated Amplifier**, $450; **PMA-501 Integrated Amplifier**, $340

## Dynaco/Dynakit

- **Dynaco, Inc. P.O. Box 612 Needham, Mass. 02198**

## Dynaco C-600 Power Amplifier

- **Price**: $300 (assembled)
- **Dimensions**: 6 1/2 in x 10 1/2 in x 10 in
- **Weight**: 28 lbs
- **Power**: 60 watts (17.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **IM**: 0.03% at 60 watts
- **Response**: 8 Hz to 50 kHz, +1 dB
- **S/N**: 100 dB (unweighted re 100 watts)
- **Features**: Bridge circuit for mono 150 watts rms at 8 ohms; LED peak-clipping indicator

## GAS Thalid

- **Input**: 2 (1 moving-coil, 1 moving-magnet)
- **Price**: $340
- **Dimensions**: 5 1/2 in x 17 1/2 in x 13 in
- **Weight**: 22 lbs
- **Inputs**: 1 phono; 2 tape; 1 aux
- **Outputs**: 1 phono; 2 tape; 1 aux
- **S/N**: 2.5 mV (phono)
- **Features**: Full 2-way tape dubbing; 5-band graphic equalizer ± 10 dB at 50 Hz, 1 kHz, ±4.5 kHz, 10 kHz; large power meters; 6-position tape selector

## EDINBURGH WIRELESS CO.

- **Import Audio 13430 Clayton Rd. St. Louis, Mo. 63131**

## A-50 Integrated Amplifier

- **Price**: $750
- **Inputs**: 2 phono (1 moving-magnet; 1 moving-coil)
- **Power**: 50 watts (17 dBW) continuous into 8 ohms at no more than 0.03% THD
- **Features**: Compact size

## EUMIG

- **Eumig USA, Inc. Lake Success Business Park 225 Community Drive Great Neck, N.Y. 11020**

## M-1000 Power Amplifier

- **Price**: $795
- **Dimensions**: 5 1/4 in x 19 x 11 in
- **Power**: 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.0075% THD
- **Response**: DC to 150 kHz, ±1 dB
- **S/N**: 105 dB (A-weighted re 100 watts)
- **Features**: slew rate of 172V/microseconds; dual 12-segment peak-power LED display with switchable 10:1 attenuator; 30 dB muting switch; 2-system speaker selector with headphone jack; champagne or matte-black finish; rack-mountable

## PAT-6 Preamp Amplifier

- **Price**: $300 (assembled)
- **Dimensions**: 3 1/4 in x 15 1/2 in x 10 in
- **Weight**: 13 lbs.
GLI
Division of VSC Corp.
Long Island City, N.Y. 11101

SA-2125 Power Amplifier

Price $675
Dimensions 5½H x 19W x 15D
Weight 27 lbs. 8 oz.
Power 120 watts (21 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 120 watts
Response 20 Hz to 20 kHz, ±0.25 dB
S/N 100 dB (unweighted re 100 watts)
Features Circuit breakers for each channel; plug-in circuit boards; cooling fan; clipping lights; thermal overload light and auto reset

3990 Preamplifier

Price $615
Dimensions 7H x 19W x 4D
Weight 15 lbs.
Inputs 3 phono, 3 aux
Output 12V (at 10K ohms clipping)
THD 0.01%
IM 0.01%
Sensitivity 2 mV (phono); 500 mV (high level)
Overload 320 mV (phono)
Phono EQ 20 Hz to 20 kHz, ±0.25 dB
Low filter 18 dB/octave below 18 Hz (infrasonic on phono input)
Features Mixing of all inputs; mc talkover; complete input cabling; companion unit to Model 1010

1010 Preamplifier/Processor

Price $310
Dimensions 3½H x 19W x 4D
Weight 7 lbs.
Inputs 2 tape
Response 20 Hz to 20 kHz, ±0.25 dB
Output 1.5V (12V clipping)
THD 0.01%
IM 0.01%
Bass control 12 dB at 20 Hz
Midrange 6 dB at 12 kHz
Treble 6 dB at 15 kHz
Features Two-way tape dubbing; stereo blend, balancing; calibrated meters; stereo mode switching; defeatable tone controls; companion piece to Model 3990

Model also available
PMX-9000 Preamplifier, $400

GREAT AMERICAN SOUND
Great American Sound Co.
20940 Lassen St.
Chatsworth. Calif. 91311

Godzilla (Class A) Power Amplifier

Price $3,500
Dimensions 7H x 19W x 19½D
Weight 100 lbs.
Power 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 90 watts
Response DC to 350 kHz, ±3 dB
Features Class A monolithic, servo-controlled, balanced-bridge output; ±8 dB at 20 kHz
Bass control ±12 dB at 20 kHz
Midrange ±6 dB at 12 kHz
Treble ±6 dB at 15 kHz
Features Two-way tape dubbing; stereo blend, balancing; calibrated meters; stereo mode switching; defeatable tone controls; companion piece to Model 3990

Models also available
CA-2320 Integrated Amplifier, $399.95; CA-2120 Integrated Amplifier, $329.95

GREAT WHITE WHALE
Great White Whale Distrib., Inc.
348 E. 84th St.
New York, N.Y. 10028

625 Power Amplifier

Price $1,150
Dimensions 6H x 18W x 13D
Weight 55 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05%
Response 1 Hz to 150 kHz
S/N 110 dB

846 Preamplifier

Price $395
Dimensions 2½H x 18W x 7D
Weight 20 lbs.
Inputs 1 phono; 1 tape, 1 tuner; 1 aux
Response 1 Hz to 150 kHz
Output 10V
THD 0.001%
IM 0.001%
Sensitivity 0.1 mV (phono); 0.1 mV (high level)
Overload 500 mV (phono)
Features One-way tape dubbing

308 Pre-Preamplifier

Price $80
Dimensions 2H x 7W x 5D
Weight 5 lbs.
Response 1 Hz to 1 mHz
Output 8V
THD 0.001%
IM 0.001%
Sensitivity 0.1 mV (phono); 0.01 mV (high level)
Overload 200 mV (phono)

Models also available
615 Power Amplifier, $750

HAFLER
David Hafler Co.
5817 Roosevelt Ave.
Pennsauken, N.J. 08109

DH-200 Power Amplifier

Price $299.95 (kit); $399.95 (assembled)
Dimensions 4¾H x 16W x 9¼D
Weight 30 lbs.
Power 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
Response 10 Hz to 40 kHz, ±0.5 dB
S/N 100 dB (unweighted re 100 watts)
Features MOSFET output stage, rack-mountable; mono strapable 300W into 8 ohms

A Note on Prices
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.
<table>
<thead>
<tr>
<th><strong>DH-101 Preamplifier</strong></th>
<th><strong>Price</strong></th>
<th>$199.95 (kit), $299.95 (assembled)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>3¼H x 13¼W x 8¾D</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>9 lbs</td>
<td></td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2 phono; 2 tape; 1 tuner; 1 aux</td>
<td></td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>20 Hz to 20 kHz, ± 0.25 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>3V</td>
<td></td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.001%</td>
<td></td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>2.8 mV (phonos); 200 mV (high level)</td>
<td></td>
</tr>
<tr>
<td><strong>Overload</strong></td>
<td>180 mV (phonos)</td>
<td></td>
</tr>
<tr>
<td><strong>Phono EQ</strong></td>
<td>30 Hz to 20 kHz, ± 0.5 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Bass control</strong></td>
<td>± 12 dB at 50 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Treble</strong></td>
<td>± 10 dB at 20 kHz</td>
<td></td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>One-way tape dubbing, two-way tape dubbing, accessory moving coil pre-amp; accessory rack-mount kit, black knob set and wooden cabinet</td>
<td></td>
</tr>
</tbody>
</table>

**HAPI**

Hegeman Audio Products, Inc.
176 Linden Ave.
Glen Ridge, N.J. 07028

**HAPI Two Preamplifier**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>1¼H x 19W x 9D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>5 lbs</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>1 phono; 1 tape; 1 tuner; 1 aux</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>2 Hz to 350 kHz</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>6V (rms)</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.03%</td>
</tr>
<tr>
<td><strong>IM</strong></td>
<td>0.02%</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>2 mV (phonos); 100 mV (high level)</td>
</tr>
<tr>
<td><strong>Overload</strong></td>
<td>300 mV (phonos)</td>
</tr>
<tr>
<td><strong>Phono EQ</strong></td>
<td>2 Hz to 100 kHz, ± 0.1 dB</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>One-way tape dubbing</td>
</tr>
</tbody>
</table>

**HAPI One Preamplifier Control Unit**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$720</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>3½H x 5½W x 9D (control unit); 1¼H x 2¼W x 7D (preamp)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>4 lbs</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>1 phono; 1 tape; 1 tuner; 1 aux</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>2 Hz to 350 kHz</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>6V (rms)</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.03%</td>
</tr>
<tr>
<td><strong>IM</strong></td>
<td>0.02%</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>2 mV (phonos)</td>
</tr>
<tr>
<td><strong>Overload</strong></td>
<td>300 mV (phonos)</td>
</tr>
<tr>
<td><strong>Phono EQ</strong></td>
<td>2 Hz</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>One-way tape dubbing</td>
</tr>
</tbody>
</table>

**HARMAN KARDON**

Harman Kardon
55 Ames Court
Plainview, N.Y. 11803

**Citation 16A Power Amplifier**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$699 (with power LEDs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>9¼H x 19W x 14D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>55 lbs</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD</td>
</tr>
<tr>
<td><strong>IM</strong></td>
<td>0.05% at 150 watts</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>4 Hz to 120 kHz, ± 1.5 dB</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>100 dB</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Two separate power supplies; DC coupled; available without power LEDs as Citation 16S ($599)</td>
</tr>
</tbody>
</table>

**Citation 17 Preamplifier/Equalizer**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$499</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>4¼H x 16W x 12D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>20 lbs</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2 phono; 1 tape; 1 tuner; 3 aux</td>
</tr>
</tbody>
</table>

**Citation 175 Preamplifier**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$175</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>4¼H x 16W x 12D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>20 lbs</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td>2 phono; 2 tape; 1 tuner; 3 aux</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>3 Hz to 270 kHz, ± 1.5 dB</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>14V</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.002%</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>2.8 mV (phonos); 200 mV (high level)</td>
</tr>
<tr>
<td><strong>Overload</strong></td>
<td>180 mV (phonos)</td>
</tr>
<tr>
<td><strong>Phono EQ</strong></td>
<td>20 Hz to 20 kHz, ± 0.25 dB</td>
</tr>
<tr>
<td><strong>Bass control</strong></td>
<td>± 12 dB at 50 Hz</td>
</tr>
<tr>
<td><strong>Treble</strong></td>
<td>± 12 dB at 8 kHz</td>
</tr>
<tr>
<td><strong>High filter</strong></td>
<td>12 dB/octave above 8 kHz</td>
</tr>
<tr>
<td><strong>Low filter</strong></td>
<td>12 dB/octave below 20 Hz</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>One-way tape dubbing; two-way tape dubbing; five-band equalizer; 4-stage, fully discrete phono preamp; detented controls</td>
</tr>
</tbody>
</table>

**Citation 191 Power Amplifier**

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th>AA-1640 Power Amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Price</strong></td>
<td>$430 (kit)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>7¼H x 19W x 18D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>58 lbs</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD</td>
</tr>
<tr>
<td><strong>IM</strong></td>
<td>0.1% at 200 watts</td>
</tr>
</tbody>
</table>

**HEATHKIT**

Heath Co.
Benton Harbor, Mich. 49022

**Model also available**

Citation 19 Power Amplifier, $499; HK-503 Integrated Amplifier, $279

**HA-5700 Integrated Amplifier**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$429.95</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>8¼H x 17¼W x 12¾D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>58 lbs</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td>5 Hz to 100 kHz, ± 0.1 dB</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>2.5 mV (phonos)</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>83 dB (phonos); 90 dB (aux)</td>
</tr>
<tr>
<td><strong>Overload</strong></td>
<td>± 12 dB at 50 Hz</td>
</tr>
<tr>
<td><strong>Treble</strong></td>
<td>± 12 dB at 20 kHz</td>
</tr>
<tr>
<td><strong>Low filter</strong></td>
<td>12 dB/octave below 20 Hz</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Power MOSFET output devices; LED power indicators</td>
</tr>
</tbody>
</table>

**HCA-8300 Preamplifier**

<table>
<thead>
<tr>
<th><strong>Price</strong></th>
<th>$350</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>6H x 17¼W x 12¼D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>14 lbs 6 oz.</td>
</tr>
<tr>
<td>Model</td>
<td>Price</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>HMA-6500 Power Amplifier</td>
<td>$350</td>
</tr>
<tr>
<td>HA-4500 Integrated Amplifier</td>
<td>$249.95</td>
</tr>
<tr>
<td>HA-3500 Preamplifier</td>
<td>$900</td>
</tr>
<tr>
<td>JA-S44 Integrated Amplifier</td>
<td>$340</td>
</tr>
<tr>
<td>JSH Laboratories, Inc.</td>
<td>$900</td>
</tr>
<tr>
<td>A-C9 Integrated Amplifier</td>
<td>$795</td>
</tr>
</tbody>
</table>
### L-07M Mark Two Mono Power Amplifier

**Price:** $600  
**Dimensions:** 6 3/8 x 15 11/32 x 13 3/32  
**Weight:** 30 lbs. 11 oz.  
**Power:** 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.003% THD  
**IM:** 0.003% at 150 watts  
**S/N:** DC to 600 kHz, +3 dB  
**Features:** High-speed circuitry

### KA-701 Integrated Amplifier

**Price:** $499  
**Dimensions:** 6 x 6 3/8 x 17 10/32 x 16 9/32  
**Weight:** 29 lbs. 13 oz.  
**Inputs:** 2 phono; 2 tape; 1 tuner; 1 aux  
**Power:** 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.003% at 80 watts  
**S/N:** DC to 400 kHz, +3 dB  
**Sensitivity:** 2.5 mV (phono); 200 mV (high level)  
**Overload:** 220 mV (phono); 110 mV (aux)  
**Phono EQ:** 20 Hz to 20 kHz, +0.2 dB  
**Bass control:** +7.5 dB at 3 kHz  
**Treble:** +7.5 dB at 1 kHz  
**High filter:** 6 dB/octave above 8 kHz  
**Low filter:** 6 dB/octave below 18 Hz  
**Features:** One-way tape dubbing, high-speed design; dual power supply

### KA-601 Integrated Amplifier

**Price:** $399  
**Dimensions:** 6 x 6 3/8 x 17 10/32 x 16 9/32  
**Weight:** 21 lbs. 6 oz.  
**Inputs:** 2 phono; 2 tape; 1 tuner; 1 aux  
**Power:** 60 watts (17.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.004% at 60 watts  
**S/N:** DC to 400 kHz, +3 dB  
**Sensitivity:** 2.5 mV (phono); 200 mV (high level)  
**Overload:** 220 mV (phono); 110 mV (aux)  
**Phono EQ:** 20 Hz to 20 kHz, ±0.2 dB  
**Bass control:** +7.5 dB at 3 kHz  
**Treble:** +7.5 dB at 1 kHz  
**High filter:** 6 dB/octave above 8 kHz  
**Low filter:** 6 dB/octave below 18 Hz  
**Features:** One-way tape dubbing, high-speed design; dual power supply

### KA-305 Integrated Amplifier

**Price:** $399  
**Dimensions:** 5 1/2 x 6 3/8 x 11 25/32  
**Weight:** 15 lbs.  
**Inputs:** 1 phono; 1 tape; 1 tuner; 1 mic; 1 aux  
**Power:** 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.08% THD  
**IM:** 0.003% at 80 watts  
**S/N:** DC to 100 kHz, +1 dB  
**Sensitivity:** 3 mV (phono); 300 mV (high level)  
**Overload:** 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.008% at 100 watts  
**S/N:** 120 dB (IHF A-weighted)  
**Features:** Direct-current, direct-coupled design; illuminated power meters; separate power supplies for each channel; amplifier- and speaker-protection circuitry; terminals for electrostatic speakers; available without meters as 5M-20 at $1,095

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**Kenwood L-07C MkII**  
**Price:** $1,095  
**Dimensions:** 5 3/4 x 17 3/4 x 16 3/4  
**Weight:** 29 lbs. 6 oz.  
**Inputs:** 2 phono; 2 tape; tuner; 2 aux  
**Power:** 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.008% THD  
**IM:** 0.003% at 100 watts  
**S/N:** 120 dB (IHF A-weighted)  
**Features:** Direct-current, direct-coupled design; illuminated power meters; separate power supplies for each channel; amplifier- and speaker-protection circuitry; terminals for electrostatic speakers; available without meters as 5M-20 at $1,095

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**Luxman L-09M Mark Two Power Amplifier**  
**Price:** $700  
**Dimensions:** 5 x 4 x 14  
**Weight:** 42 lbs.  
**Inputs:** 2 phono; 2 tape; 1 tuner; 1 aux  
**Power:** 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.008% at 100 watts  
**S/N:** DC to 100 kHz, +0.1 dB  
**Features:** Direct-current, direct-coupled design; illuminated power meters; separate power supplies for each channel; amplifier- and speaker-protection circuitry; terminals for electrostatic speakers; available without meters as 5M-20 at $1,095

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**KANWOOD**  
**Kenwood Electronics, Inc.**  
**75 Seaview Drive**  
**Secaucus, N.J. 07094**

---

**KA-907 Integrated Amplifier**  
**Price:** $1,000  
**Dimensions:** 6 11/32 x 18 1/4 x 18 7/32  
**Weight:** 56 lbs. 14 oz.  
**Inputs:** 3 phono; 2 tape; 1 tuner; 1 aux  
**Power:** 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM:** 0.0045% at 150 watts  
**S/N:** DC to 400 kHz, -3 dB  
**Sensitivity:** 2.5 mV (phono); 200 mV (high level)  
**Overload:** 230 mV (phono); 105 mV (aux)  
**Phono EQ:** 20 Hz to 20 kHz, +0.2 dB  
**Bass control:** ±7.5 dB at 150 Hz  
**Treble:** ±7.5 dB at 3 kHz  
**High filter:** 12 dB/octave above 8 kHz  
**Low filter:** 6 dB/octave below 18 Hz  
**Features:** Two-way tape dubbing, separable power and preamp, high-speed DC amp, dual power supply

---

**L-07C Mark Two Preamplifier**  
**Price:** $300  
**Dimensions:** 3 15/16 x 19 3/16 x 13 3/4  
**Weight:** 20 lbs.  
**Inputs:** 2 phono; 2 tape; 1 tuner; 1 aux  
**Sensitivity:** 2.5 mV (phono); 140 mV (high level)  
**Overload:** 450 mV (phono)  
**Phono EQ:** 20 Hz to 20 kHz, ±0.2 dB  
**Bass control:** ±7.5 dB at 100 Hz  
**Treble:** ±7.5 dB at 10 kHz  
**Low filter:** 12 dB/octave below 18 Hz  
**Features:** Two-way dubbing

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**5L-15 Laboratory Reference Series Integrated Amplifier**  
**Price:** $995  
**Dimensions:** 5 1/4 x 17 1/4 x 16  
**Weight:** 29 lbs. 5 oz.  
**Inputs:** 2 phono; 1 tape; 1 tuner; 2 aux  
**Power:** 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.02% at 80 watts  
**S/N:** DC to 100 kHz, +1 dB  
**Sensitivity:** 3 mV (phono); 300 mV (high level)  
**Overload:** 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.008% at 100 watts  
**S/N:** 120 dB (IHF A-weighted)  
**Features:** Active below 17 Hz (infrasonic)
Features
Two-way tape dubbing; separable power amp and preamp, volume attenuator for instant muting; terminals for electrostatic speakers; illuminated power meters with adjustable sensitivity; direct-current, direct-coupled design

**5C-50 Laboratory Reference Series Preampifier**

**Price** $895  
**Dimensions** 4H x 17 1/4 W x 16 D  
**Weight** 18 lbs.

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Response</th>
<th>Output</th>
<th>THD</th>
<th>Sensitivity</th>
<th>IM</th>
<th>Overload</th>
<th>Phones</th>
<th>High filter</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 phonos; 2 tape; tuner; aux</td>
<td>0.5 Hz to 200 kHz, +0.0 to -0.5 dB</td>
<td>1V (rated) (18V max)</td>
<td>0.005%</td>
<td>2.5 mV (phone); 150 mV (high level)</td>
<td>0.05% at 87 watts</td>
<td>220 mV (phone)</td>
<td>92 dB (phone); 98 dB (aux) (A-weighted 87 watts)</td>
<td>10 Hz to 20 Hz, +0.2 dB</td>
<td>One-way tape dubbing, two-way tape dubbing, dual LED power meters; dual 5-band graphic equalizer; true power DC amplifier; moving-coil cartridge head amp, independent record mode selector; detented volume control</td>
</tr>
</tbody>
</table>

**PM-700 Integrated Amplifier/Equalizer**

**Price** $420  
**Dimensions** 5H x 16 1/4 W x 13 D  
**Weight** 26 lbs. 14 oz.

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Power</th>
<th>Response</th>
<th>S/N</th>
<th>Sensitivity</th>
<th>IM</th>
<th>Overload</th>
<th>Phones</th>
<th>High filter</th>
<th>Low filter</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 phonos; 2 tape; 1 tuner; 1 aux</td>
<td>87 watts (19.5 dB) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.05% THD</td>
<td>10 Hz to 70 kHz, ±1.0 dB</td>
<td>2.8 mV (phone); 150 mV (high level)</td>
<td>0.05% at 87 watts</td>
<td>10 Hz to 20 kHz, ±0.2 dB</td>
<td>20 Hz to 20 kHz, ±0.2 dB</td>
<td>6 dB/octave above 9 kHz</td>
<td>20 Hz to 20 kHz, ±0.2 dB</td>
<td>One-way tape dubbing, two-way tape dubbing, dual LED power meters, dual 5-band graphic equalizer, true power DC amplifier, moving-coil cartridge head amp, independent record mode selector; detented volume control</td>
<td></td>
</tr>
</tbody>
</table>

**PM-300 Integrated Amplifier/Equalizer**

**Price** $235  
**Dimensions** 5H x 16 1/4 W x 9 1/16 D  
**Weight** 13 lbs. 12 oz.

<table>
<thead>
<tr>
<th>Power</th>
<th>Response</th>
<th>S/N</th>
<th>Sensitivity</th>
<th>IM</th>
<th>Overload</th>
<th>Phones</th>
<th>Bass control</th>
<th>Midrange</th>
<th>Treble</th>
<th>Low filter</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 watts (15.75 dB) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.08% THD</td>
<td>15 Hz to 50 kHz, ±0.1 dB</td>
<td>2.8 mV (phone); 150 mV (high level)</td>
<td>0.08% at 38 watts</td>
<td>10 Hz to 70 kHz, ±0.5 dB</td>
<td>±10 dB at 100 Hz</td>
<td>±3 dB at 10 kHz</td>
<td>+10 dB at 10 kHz</td>
<td>±10 dB at 10 kHz</td>
<td>One-way tape dubbing, dual LED power meters; true power direct coupled; detented volume control; loudness control</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

PM-500 Integrated Amplifier/Equalizer, $330

McINTOSH McIntosh Laboratory, Inc.  
2 Chambers St.  
Binghampton, N.Y. 13903

**C-32 Preampifier**

**Price** $1,499  
**Dimensions** 5H x 16 W x 13 D  
**Weight** 27 lbs.

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Power</th>
<th>Response</th>
<th>S/N</th>
<th>Sensitivity</th>
<th>IM</th>
<th>Overload</th>
<th>Phones</th>
<th>High filter</th>
<th>Low filter</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 phonos; 3 tape; tuner; aux</td>
<td>20 Hz to 20 kHz, +0.0 to -0.25 dB (10 Hz to 100 kHz, +0.5 dB)</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
<td>100 mV (phone)</td>
<td>6 dB/octave above 9 kHz</td>
<td>12 dB/octave below 50 Hz</td>
<td>Two-way tape dubbing; low-noise phono-amp, loudness contour, precision-step attenuator volume control; system on/off power control circuit; switch-type tone controls, Panloc mounting, turntable-actuated system on/off power control circuit</td>
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</tbody>
</table>

**MC-502 Power Amplifier**

**Price** $699  
**Dimensions** 3H x 16W x 14 D  
**Weight** 27 lbs.

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Power</th>
<th>Response</th>
<th>S/N</th>
<th>Sensitivity</th>
<th>IM</th>
<th>Overload</th>
<th>Phones</th>
<th>High filter</th>
<th>Low filter</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 phonos; 1 tuner; 2 aux</td>
<td>75 watts (19 dB) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
<td>100 mV (phone)</td>
<td>6 dB/octave above 9 kHz</td>
<td>12 dB/octave below 50 Hz</td>
<td>Two-way tape dubbing; low-noise phono-amp, loudness contour, precision-step attenuator volume control; system on/off power control circuit; switch-type tone controls, Panloc mounting, turntable-actuated system on/off power control circuit</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Models also available**

MC-2300 Power Amplifier, $1,799;  
MC-2205 Power Amplifier, $1,499;  
MC-2125 Power Amplifier, $1,099;  
MC-2150 Power Amplifier, $899;  
C-27 Preampifier, $749

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A Note on Prices  
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.
### 3865 Integrated Amplifier

**Price**: $400  
**Dimensions**: 5 1/4 x 13 7/8 W x 11 13/16 D  
**Weight**: 41 lbs.  
**Input**: 1 phone, 1 tape; 1 tuner; 1 mic; 1 aux  
**Power**: 65 watts (18 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM**: 0.02% at 20 watts  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel, can be used with inexpensive receivers to increase output power.

### 101 Preamplifier

**Price**: $465  
**Dimensions**: 21 x 5 1/16 W x 12 1/4 D  
**Weight**: 4 lbs.  
**Input**: 1 phone, 1 tape; 1 tuner  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel.

### Powermaster 90 Power Amplifier

**Price**: $499  
**Dimensions**: 5 1/4 x 12 W x 13 1/4 D  
**Weight**: 20 lbs.  
**Power**: 155 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.008% at 150 watts  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel.

### Powermaster 75 Power Amplifier

**Price**: $449  
**Dimensions**: 7 1/4 x 9 1/16 W x 12 1/4 D  
**Weight**: 85 lbs.  
**Power**: 164 watts (25.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.05% at 350 watts  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel.

### METRON

**MCS SERIES**  
**Price**: $699  
**Dimensions**: 4 1/4 x 11 W x 12 D  
**Weight**: 26 lbs.

**Power**: 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD  
**IM**: 0.1% at 35 watts  
**Response**: 20 Hz to 20 kHz  
**S/N**: 90 dB (C/UR-weighted)  
**Features**: Separate power supplies, one for each channel.

**Models also available**: 3845 Integrated Amplifier, $240

### MEGA

**Mega Electronics, Inc.**  
**12737 Garvey Ave.**  
**Baldwin Park, Calif. 91706**

**Add-On Power Amplifier**  
**Price**: $499  
**Dimensions**: 4 1/4 x 19 W x 17 D  
**Power**: 150 watts (22 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM**: 0.05% at 150 watts  
**S/N**: 120 dB  
**Features**: Can be used with inexpensive receivers to increase output power.

### METEOR

**Hammond Industries, Inc.**  
**155 Michael Drive**  
**Syosset, N.Y. 11791**

**Powermaster 90 Power Amplifier**  
**Price**: $499  
**Dimensions**: 5 1/4 x 19 W x 13 1/4 D  
**Weight**: 20 lbs.  
**Power**: 155 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.008% at 150 watts  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel.

**Powermaster 75 Power Amplifier**  
**Price**: $449  
**Dimensions**: 7 1/4 x 9 1/16 W x 12 1/4 D  
**Weight**: 85 lbs.  
**Power**: 164 watts (25.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.05% at 350 watts  
**Response**: 20 Hz to 20 kHz, ± 0.5 dB  
**S/N**: 0.1% at 20 watts  
**Features**: Separate power supplies, one for each channel.

**Models also available**: 3845 Integrated Amplifier, $240

### MITSUBISHI

**Melco Sales, Inc.**  
**3030 E. Victoria**  
**Compton, Calif. 90221**

**DA-A15DC Power Amplifier**  
**Price**: $700  
**Dimensions**: 6 1/4 x 16 W x 11 1/4 D  
**Weight**: 30 lbs.  
**Power**: 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.008% at 150 watts  
**Response**: 20 Hz to 20 kHz, ± 0.1 dB  
**S/N**: 123 dB (A-weighted re 150 watts)  
**Features**: Separate power supplies, one for each channel.

**M-A01 Micro Power Amplifier**  
**Price**: $500  
**Dimensions**: 5 1/4 x 10 1/16 W x 9 1/4 D  
**Weight**: 22 lbs.  
**Power**: 70 watts (18.5 dBW) continuous into 8 ohms from 15 Hz to 20 kHz at no more than 0.01% THD  
**IM**: 0.008% at 70 watts  
**Response**: 20 Hz to 20 kHz, ± 0.1 dB  
**S/N**: 123 dB (A-weighted re 70 watts)  
**Features**: Separate power supplies, one for each channel.

**M-P01 Micro Preamplifier**  
**Price**: $370  
**Dimensions**: 2 1/4 x 10 1/16 W x 9 1/4 D  
**Weight**: 7 lbs.  
**Input**: 2 phone, 1 tape; 1 tuner, aux  
**Response**: 10 Hz to 100 kHz, ± 0 dB  
**Output**: 1 V (rated); 18 V (max)  
**THD**: 0.002%  
**IM**: 0.002%  
**Sensitivity**: 2.3 mV (phono), 150 mV (high level)  
**Overload**: 250 mV (phono)  
**Phono EQ**: 20 Hz to 20 kHz, ± 0.2 dB  
**Bass control**: ± 8 dB at 50 Hz  
**Treble**: ± 8 dB at 10 kHz  
**Low filter**: 6 dB/octave below 20 Hz  
**Features**: Separate power supplies, one for each channel.

**M-200 Power Amplifier**, $600

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**PR-1 Preamplifier**  
**Price**: $500  
**Dimensions**: 2 1/4 x 19 W x 14 D  
**Weight**: 15 lbs.  
**Input**: 2 phone, 2 tape; 1 phone, mic; aux  
**Response**: 5 Hz to 200 kHz, ± 0.1 dB  
**Output**: 2 V, outputs 1 and 2; 3 V, output 3  
**THD**: 0.005%  
**IM**: 0.005%  
**Sensitivity**: 2 mV (phono); 250 mV (high level)  
**Overload**: 230 mV (phono)  
**Phono EQ**: 30 Hz to 15 kHz, ± 0.2 dB  
**Bass control**: ± 10 dB at 50 Hz  
**Treble**: ± 10 dB at 10 kHz  
**Low filter**: 18 dB/octave below 20 Hz  
**Features**: Precision-engineered construction, 100% separation of power supplies, 100% separation of control signals, complete two-way tape dubbing capability.
### DA-P10 Preamplifier
- **Price**: $330
- **Dimensions**: 6 15/32 x 16 1/16 x 8 D
- **Weight**: 13 lbs.
- **Inputs**: 2 phone; tape; tuner; aux
- **Response**: 10 Hz to 70 kHz, +0, -0.5 dB
- **Output**: 1 V (rated), 9 V (max)
- **THD**: 0.02%
- **IM**: 0.02%
- **Sensitivity**: 2.2 mV (phono); 150 mV (high level)
- **Overload**: 270 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.2 dB
- **Bass control**: +10 dB at 100 Hz
- **Treble**: +10 dB at 10 kHz
- **Low filter**: 12 dB/octave below 18 Hz
- **Features**: Off/A/B speaker switching; headphone output; separate level controls for each channel; professional stepped attenuator; preamp can be docked to power amp to provide integrated-amp configuration; dual monaural construction

### Models also available
- DA-A100C Power Amplifier, $470; DA-P20 Preamplifier, $30; DA-A7DC Power Amplifier, $330

### NAD
**NAD (USA), Inc.**
Mackintosh Lane
P.O. Box 529
Lincoln, Mass. 01773

### NAD-3080 Integrated Amplifier
- **Price**: $485
- **Dimensions**: 5 15/32 x 19 1/3W x 15 3/5D
- **Weight**: 35 lbs.
- **Inputs**: 1 phone, 1 tape, 1 tuner; 1 mic; 1 aux
- **Power**: 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.003% THD
- **IM**: 0.03% at 90 watts
- **Response**: 5 Hz to 50 kHz, +0, -3 dB
- **Sensitivity**: 0.5 mV (phono); 30 mV (high level) (IHF A-standard)
- **Overload**: 200 mV (phono) (at 1 kHz)
- **S/N**: 82 dB (phono); 80 dB (aux) (IHF A-weighted)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.3 dB
- **Bass control**: +11 or 13 dB at 50 Hz
- **Treble**: +6 or 9 dB at 10 kHz
- **High filter**: 12 dB/octave above 8 kHz
- **Low filter**: 12 dB/octave below 20 Hz
- **Features**: Two-way tape dubbing; separable power and preamp, Holman-style preamp, independent selection of bass and treble turnover frequencies; output relay for speaker protection; infrasonic filter; stability down to 2 ohms

### NAD-3045 Integrated Amplifier
- **Price**: $315
- **Dimensions**: 5 15/32 x 17 7/10W x 15 3/5D
- **Weight**: 26 lbs.
- **Inputs**: 1 phone; 1 tape; 1 tuner; 1 aux
- **Power**: 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD
- **IM**: 0.06% at 45 watts
- **Response**: 5 Hz to 50 kHz; +0, -3 dB
- **Sensitivity**: 0.4 mV (phono); -30 mV (high level) (IHF A-standard)
- **Overload**: 200 mV (phono) (at 1 kHz)
- **S/N**: 80 dB (phono); 80 dB (aux) (IHF A-weighted)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.3 dB
- **Bass control**: +10 dB at 50 Hz
- **Treble**: +10 dB at 10 kHz
- **High filter**: 6 dB/octave above 7 kHz
- **Low filter**: 12 dB/octave below 20 Hz

### Features
- One-way tape dubbing; separable power and preamp; Holman-style preamp; IHF dynamic power in excess of 100 watts per channel at 4 ohms; infrasonic filter

### Models also available
- NAD-3060 Integrated Amplifier, $410; NAD-3030 Integrated Amplifier, $230; NAD-3020 Integrated Amplifier, $175

### NAGRA
**Nagra Magnetic Recorders, Inc.**
19 W. 44th St.
New York, N.Y. 10036

### DSM Portable Power Amplifier
- **Price**: $1,297
- **Dimensions**: 9 1/4 x 10 1/4W x 5 1/4D
- **Weight**: 14 lbs.
- **Power**: 15 watts (11.75 dBW) continuous into 8 ohms from 60 Hz to 16 kHz at no more than 0.3% THD
- **Response**: 60 Hz to 20 kHz, +0, -3 dB

### NAIM AUDIO
**Audiophile Systems**
5750 Rymark Court
Indianapolis, Ind. 46250

### NAP-160 Power Amplifier
- **Price**: $1,200
- **Dimensions**: 5H x 17W x 12D
- **Weight**: 20 lbs.
- **Power**: 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
- **IM**: 0.02% at 0.1 to 50 watts
- **Response**: 5 Hz to 40 kHz, ±3 dB
- **Features**: Will not limit slew rate between 5 Hz and 40 kHz; able to drive reactive loads from ±90° at no appreciable change in distortion

### NAC-12 Preamplifier
- **Price**: $700
- **Dimensions**: 3H x 5W x 12D
- **Weight**: 5 lbs.
- **Inputs**: Phone; tape; tuner
- **Response**: 20 Hz to 20 kHz, ±0.5 dB
- **THD**: 0.02%
- **IM**: 0.02%
- **Sensitivity**: 0.1 mV (phono); 75 mV (high level) (IHF A-standard)
- **Overload**: 10 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.5 dB

### NAC-42 Preamplifier
- **Price**: $440
- **Dimensions**: 3H x 8W x 11D
- **Weight**: 6 lbs.
- **Inputs**: 1 phone; 1 tape; 1 tuner
- **Response**: 20 Hz to 20 kHz, ±0.5 dB
- **THD**: 0.02%
- **IM**: 0.02%
- **Sensitivity**: 2.0 mV (phono); 75 mV (high level)
- **Overload**: 200 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.5 dB

### PNAG Moving-Coil Preamplifier
- **Price**: $300
- **Dimensions**: 2H x 5W x 3D
- **Weight**: 3 lbs.
- **Inputs**: Phone
- **Response**: 20 Hz to 20 kHz, ±0.5 dB
- **THD**: 0.02%
- **IM**: 0.02%

### Sensitivity
- 0.1 mV (phono)
- Overload: 10 mV (phono)

### Models also available
- NAP-250 Power Amplifier, $2,000; NAC-32, $920; NAP-110 Power Amplifier, $650

### NAKAMICHI
**Nakamichi U.S.A. Corp.**
1101 Colorado Ave.
Santa Monica, Calif. 90401

### 620 Power Amplifier
- **Price**: $740
- **Dimensions**: 7 1/4H x 16W x 10D
- **Weight**: 28 lbs.
- **Power**: 100 watts (20 dBW) continuous into 8 ohms from 5 Hz to 20 kHz at no more than 0.01% THD
- **IM**: 0.02% at 100 watts
- **Response**: 5 Hz to 100 kHz, ±0.5 dB
- **S/N**: 120 dB (IHF A-weighted re 100 watts)
- **Features**: Peak power indicators; complete mirror complementary-symmetry output; toroidal core power transformer, 350 watts/8 ohms monaural output with external Nakamichi bridging adapter

### 610 Preamplifier
- **Price**: $660 (black, $680)
- **Dimensions**: 7 1/4H x 16W x 10D
- **Weight**: 16 lbs.
- **Inputs**: 2 phone; 3 tape; tuner; 5 mic; aux
- **Response**: 20 Hz to 100 kHz, ±0.75 dB
- **Output**: 5V at clipping
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 1 mV (phono); 75 mV (high level)
- **Overload**: 250 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.3 dB
- **Features**: Two way tape dubbing; 5-to-2 mixing from any input; built-in 7-frequency test oscillator and pink-noise generator; phase-check and invert circuits; 50 dB-range peak-level meters; speaker switching with optional RM-610 remote switching unit

### 410 Preamplifier
- **Price**: $370
- **Dimensions**: 3H x 16W x 9D
- **Weight**: 9 lbs.
- **Inputs**: Phone; tape; tuner; 2 aux
- **Response**: 20 Hz to 50 kHz, ±0.75 dB
- **Output**: 5V at clipping
- **THD**: 0.003%
- **IM**: 0.003%
- **Sensitivity**: 1/25 mV (phono) (switched); 100 mV (high le-el)
- **Overload**: 250 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.3 dB
- **Bass control**: +9 dB at 20 Hz
- **Treble**: ±9 dB at 20 kHz
- **Features**: One-way tape dubbing; variable contour; stepped-attenuator volume control; fully defeatable tone controls; triple-transistor phono input with switchable active phono infrasonic filter

### Models also available
- 420 Power Amplifier, $390

### NIKKO
**Nikko Electric Corp. of America**
12670 Raymer St.
Van Nuys, Calif. 91406

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*High Fidelity's Buying Guide to Stereo Components*
**Alpha VI Power Amplifier**

- **Price**: $1,399.95
- **Dimensions**: 7¼H x 19W x 18 1/3D
- **Weight**: 62 lbs.
- **Power**: 300 watts (24.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
- **IM**: 0.01% at 300 watts
- **Response**: 10 Hz to 100 kHz, ±3 dB
- **S/N**: 85 dB (phono); 100 dB (aux)
- **Features**: Portable; rack-mount adaptable; tone defeat switch

**Beta III Preamplifier**

- **Price**: $419.95
- **Dimensions**: 2 3/32H x 19W x 13D
- **Weight**: 13 lbs.
- **Inputs**: 2 phone; 2 tape; 1 tuner; 1 aux
- **Response**: 10 Hz to 50 kHz, ±0.5 dB
- **Output**: 1V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 2 mV (phono); 110 mV (high level)
- **Overload**: 350 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.2 dB
- **Bass control**: ±10 dB at 50 Hz
- **Treble**: ±10 dB at 20 kHz
- **Low filter**: 6 dB/octave below 40 Hz
- **Features**: Two-way tape dubbing; Infrasonic filter; Phono 2 level control; Selectable Phono Impedance

**NA-890 Integrated Amplifier**

- **Price**: $349.95
- **Dimensions**: 5¼H x 16½W x 13¼D
- **Weight**: 24 lbs. 3 oz.
- **Inputs**: 1 phono; 2 tape; 1 tuner; 1 aux
- **Power**: 70 watts (18.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.04% THD
- **IM**: 0.04% at 70 watts
- **Response**: 10 Hz to 50 kHz, ±0.2 dB
- **Sensitivity**: 2.3 mV (phono); 150 mV (high level)
- **Overload**: 220 mV (phono)
- **S/N**: 85 dB (phono); 100 dB (aux)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.2 dB
- **Bass control**: ±10 dB at 70 Hz
- **Treble**: ±10 dB at 10 kHz
- **High filter**: 6 dB/octave above 7 kHz
- **Low filter**: 6 dB/octave below 20 kHz
- **Features**: Two-way tape dubbing; Power meters; rack-mount adaptable; Tone defeat switch

**Nautilus**

- **Price**: $299.95
- **Dimensions**: 2 3/32H x 18 1/4W x 10D
- **Weight**: 9 lbs. 14 oz.
- **Inputs**: 2 phone; 2 tape; tuner; aux
- **Response**: 10 Hz to 100 kHz, +0.5 dB
- **Output**: 1V
- **THD**: 0.007%

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**Beta II Preamplifier**

- **Price**: $329.95
- **Dimensions**: 2 3/32H x 18 1/4W x 10D
- **Weight**: 9 lbs. 14 oz.
- **Inputs**: 2 phone; 2 tape; tuner; aux
- **Response**: 10 Hz to 100 kHz, +0.5 dB
- **Output**: 1V
- **THD**: 0.007%

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**Beta II Preamplifier**

- **Price**: $299.95
- **Dimensions**: 2 3/32H x 18 1/4W x 10D
- **Weight**: 9 lbs. 14 oz.
- **Inputs**: 2 phone; 2 tape; tuner; aux
- **Response**: 10 Hz to 100 kHz, +0.5 dB
- **Output**: 1V
- **THD**: 0.007%

---

**Beta III Preamplifier**

- **Price**: $419.95
- **Dimensions**: 2 3/32H x 19W x 13D
- **Weight**: 13 lbs.
- **Inputs**: 2 phone; 2 tape; 1 tuner; 1 aux
- **Response**: 10 Hz to 50 kHz, ±0.5 dB
- **Output**: 1V
- **THD**: 0.005%
- **IM**: 0.005%
- **Sensitivity**: 2 mV (phono); 110 mV (high level)
- **Overload**: 350 mV (phono)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.2 dB
- **Bass control**: ±10 dB at 50 Hz
- **Treble**: ±10 dB at 20 kHz
- **Low filter**: 6 dB/octave below 40 Hz
- **Features**: Two-way tape dubbing; Infrasonic filter; Phono 2 level control; Selectable Phono Impedance

**NA-590 Integrated Amplifier**

- **Price**: $209.95
- **Dimensions**: 3¼H x 16½W x 14¼D
- **Weight**: 16 lbs.
- **Inputs**: 1 phono; 1 tape; 1 tuner; 1 aux
- **Power**: 36 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
- **IM**: 0.05% at 35 watts
- **Response**: 10 Hz to 50 kHz, ±0.5 dB
- **Sensitivity**: 2.3 mV (phono); 150 mV (high level)
- **Overload**: 130 mV (phono)
- **S/N**: 80 db (phono); 90 db (aux)
- **Phono EQ**: 30 Hz to 15 kHz, ±1 dB
- **Bass control**: ±10 dB at 70 Hz
- **Treble**: ±10 dB at 10 kHz
- **Low filter**: 6 dB/octave below 20 Hz
- **Features**: Slimline; rack-mount adaptable

**Models also available**

- **Alpha III Power Amplifier**, $359.95
- **Alpha II Power Amplifier**, $479.95
- **NA-790 Integrated Amplifier**, $280
- **NA-690 Integrated Amplifier**, $249.95

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**NYTECH AUDIO LTD.**

**Import Audio Ltd.**

13430 Clayton Road

St. Louis, Mo. 63131

**CPA-602 Power Amplifier**

- **Price**: $600
- **Dimensions**: 3¼H x 8¼W x 13¼D
- **Weight**: 11 lbs.
- **Power**: 50 watts (17 dBW) continuous into 8 ohms at no more than 0.03% THD
- **S/N**: 90 dB
- **Features**: Compact design

**ONKYO**

Onkyo U.S.A. Corp.

42-07 20th Ave.

Long Island City, N.Y. 11105

---

**M-505 Power Amplifier**

- **Price**: $800
- **Dimensions**: 6¼H x 17¼W x 12¼D
- **Weight**: 37 lbs. 6 oz.
- **Power**: 105 watts (20.25 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
- **IM**: 0.01% at 105 watts
- **Response**: DC to 150 kHz, ±0.15 dB
- **S/N**: 110 dB (A-weighted re 105 watts)
- **Features**: DC Amplifier; Dual line construction; 3-step low-frequency cutoff (DC, 0.15 Hz, 10 Hz) left and right level controls

---

**P-303 Preamplifier**

- **Price**: $410
- **Dimensions**: 3¼H x 17¼W x 14¼D
- **Weight**: 16 lbs. 8 oz.
- **Inputs**: 2 phone (1 moving-coil, 1 moving-magnet); tape; tuner
- **Response**: 3.5 Hz to 200 kHz, ±0.15 dB
- **THD**: 0.006% thru MM at 3V; 0.03% thru MC at 3V
- **IM**: 0.01%
- **Sensitivity**: MM 0.1 mV (10 ohms), MM 2.5 mV, (30K, 50K, 100K—switchable); tuner MC 150 mV, 50K
- **Overload**: 330 mV rms, (MM) (phono) 1 kHz, 0.05% THD; 1600 mV rms, 10 kHz, 0.05% THD; phono MC 15 mV rms, 1 kHz, 0.05% THD; 63 mV rms, 10 kHz, 0.05% THD
- **Phono EQ**: 20 Hz to 20 kHz, ±0.2 dB
- **Features**: Full Class A, moving-coil head amp; buss feeder line system; dual line construction; accessory out and in

**Models also available**

A-7070 Integrated Amplifier, $429.95

A-7040 Integrated Amplifier, $299.95
### D-500 Series Two Amplifier

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,499.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>7H x 19W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>65 lbs</td>
</tr>
<tr>
<td>Power</td>
<td>505 watts per channel (27 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.09% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.09% at 505 watts</td>
</tr>
<tr>
<td>S/N</td>
<td>110 dB (A-weighted re 505 watts)</td>
</tr>
<tr>
<td>Features</td>
<td>Input sensitivity controls; power switch; LED meters; high/low impedance match; high-temperature LED; high-frequency limiters</td>
</tr>
</tbody>
</table>

### 4000 Series Two Preamplifier

<table>
<thead>
<tr>
<th>Price</th>
<th>$699.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>7H x 19W x 10D</td>
</tr>
<tr>
<td>Weight</td>
<td>18 lbs</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono; 2 tape; 1 tuner; 1 aux</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.4 dB</td>
</tr>
<tr>
<td>Output</td>
<td>2V (rms)</td>
</tr>
<tr>
<td>THD</td>
<td>0.04%</td>
</tr>
<tr>
<td>IM</td>
<td>0.04%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2 mV (phono); 200 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>100 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.4 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>12 dB at 20 kHz</td>
</tr>
<tr>
<td>Treble</td>
<td>±12 dB at 20 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>24 dB/octave below 15 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>One-way tape dubbing; two-way tape dubbing; corrugated noise reduction; dynamic-range expander; muting</td>
</tr>
</tbody>
</table>

### AH-572 Preamplifier

<table>
<thead>
<tr>
<th>Price</th>
<th>$480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>5½H x 18W x 13½D</td>
</tr>
<tr>
<td>Weight</td>
<td>22 lbs</td>
</tr>
<tr>
<td>Inputs</td>
<td>Phono; tape; tuner; aux</td>
</tr>
<tr>
<td>Response</td>
<td>10 Hz to 50 kHz, ±0.5 dB</td>
</tr>
<tr>
<td>Output</td>
<td>2V</td>
</tr>
<tr>
<td>THD</td>
<td>0.008%</td>
</tr>
<tr>
<td>IM</td>
<td>0.008%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2 mV (phono); 200 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>750 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±10 dB at 50 kHz</td>
</tr>
<tr>
<td>Treble</td>
<td>±10 dB at 10 kHz</td>
</tr>
<tr>
<td>High filter</td>
<td>12 dB/octave above 5 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>12 dB/octave below 90 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing, touch controls; illuminated function readouts, front access tape jacks, step-detent controls, available with black front panel as AH-5721 at $500</td>
</tr>
</tbody>
</table>

### AH-384 Integrated Amplifier

<table>
<thead>
<tr>
<th>Price</th>
<th>$330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>5½H x 18W x 14D</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono; 2 tape; tuner, aux</td>
</tr>
<tr>
<td>Power</td>
<td>40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.1% at 20 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±1 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2 mV (phono); 150 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>130 mV (phono)</td>
</tr>
<tr>
<td>S/N</td>
<td>65 mV (phono); 85 mV (aux) (A-weighted re 40 watts)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>30 Hz to 15 kHz, ±1 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±10 dB at 100 kHz</td>
</tr>
<tr>
<td>Treble</td>
<td>±12 dB at 10 kHz</td>
</tr>
<tr>
<td>High filter</td>
<td>6 dB/octave above 5 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>6 dB/octave below 100 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing, vacuum tubes; touch controls; separate power and preamp; simile; operation indicators; audio muting; loudness; detent volume control</td>
</tr>
</tbody>
</table>

### Models also available

- AH-388 Integrated Amplifier, $470; AH-386 Integrated Amplifier, $390

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### PHILIPS

**Philips High Fidelity Laboratories**

P.O. Box 2218

Fort Wayne, Ind. 46801

**AH-578 Power Amplifier**

| Price       | $680 |

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**PHASE LINEAR**

Phase Linear Corp.

20181 48th Ave., West Lynnwood, Wash. 98036

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**OPTIONS**

Optonica

10 Keystone Place

Paramus, N.J. 07652

**SX-9305 Power Amplifier**

<table>
<thead>
<tr>
<th>Price</th>
<th>$850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2½H x 16½W x 17 11/16D</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs</td>
</tr>
<tr>
<td>Power</td>
<td>100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.005% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.005% at 100 watts</td>
</tr>
<tr>
<td>S/N</td>
<td>115 dB (A-weighted re rated power)</td>
</tr>
<tr>
<td>Features</td>
<td>Three-color digitron audio spectrum display; 3-color digitron power output meters; 2-color LED power protection indicator; switchable output load selector</td>
</tr>
</tbody>
</table>

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**SO-9205 Preamplifier**

<table>
<thead>
<tr>
<th>Price</th>
<th>$350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2½H x 16½W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>14 lbs 13 oz.</td>
</tr>
<tr>
<td>Inputs</td>
<td>3 phono; 2 tape; 1 tuner, 1 aux</td>
</tr>
<tr>
<td>Response</td>
<td>3 Hz to 100 kHz, +0.1 -1.5 dB</td>
</tr>
<tr>
<td>Output</td>
<td>1V</td>
</tr>
<tr>
<td>THD</td>
<td>0.003%</td>
</tr>
<tr>
<td>IM</td>
<td>0.001%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>3 mV (phono); 150 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>500 mV (phono); 27 mV (phono moving coil)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.2 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±10 dB at 100 Hz</td>
</tr>
<tr>
<td>Treble</td>
<td>±10 dB at 20 kHz</td>
</tr>
<tr>
<td>High filter</td>
<td>6 dB/octave above 8/15 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>6 dB/octave below 15/30 Hz (infrasonic)</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; slimline; built-in MC head amp; 3-position MP selector and 3-position CAP selector for PHONO 2</td>
</tr>
</tbody>
</table>

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**SM-4305 Integrated Amplifier**

<table>
<thead>
<tr>
<th>Price</th>
<th>$300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2½H x 16½W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>20 lbs 14 oz.</td>
</tr>
<tr>
<td>Inputs</td>
<td>1 phono; 2 tape; 1 tuner; 1 aux</td>
</tr>
<tr>
<td>Power</td>
<td>40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.005% at 20 watts</td>
</tr>
<tr>
<td>Response</td>
<td>8 Hz to 70 kHz, ±3 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.9 mV (phono); 150 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>250 mV (phono)</td>
</tr>
<tr>
<td>S/N</td>
<td>85 dB (phono) (re 10 mV input); 89 dB (aux) (A-weighted re rated power)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.4 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±10 dB at 100 Hz</td>
</tr>
<tr>
<td>Treble</td>
<td>±10 dB at 10 kHz</td>
</tr>
<tr>
<td>High filter</td>
<td>6 dB/octave above 7 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>6 dB/octave below 30 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; separable power and preamp; simile; operation indicators; audio muting; loudness; detent volume control</td>
</tr>
</tbody>
</table>

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**Models also available**

- SM-7305 Integrated Amplifier, $460; SM-3201 Integrated Amplifier, $260

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**PP-1 Phono Preamplifier**

<table>
<thead>
<tr>
<th>Price</th>
<th>$39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2½H x 3½W x 4½D</td>
</tr>
<tr>
<td>Weight</td>
<td>1 lb.</td>
</tr>
<tr>
<td>Inputs</td>
<td>Phono</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±1.5 dB</td>
</tr>
<tr>
<td>Output</td>
<td>2.5V</td>
</tr>
<tr>
<td>THD</td>
<td>0.25%</td>
</tr>
<tr>
<td>IM</td>
<td>0.2%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>6 mV</td>
</tr>
<tr>
<td>Overload</td>
<td>35 mV (1 kHz)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±1.5 dB</td>
</tr>
<tr>
<td>Midrange</td>
<td>6 dB/octave below 100 Hz</td>
</tr>
</tbody>
</table>
PIONEER  
U.S. Pioneer Electronics Corp.  
85 Oxford Drive  
Moonachie, N.J. 07074  

SPEC-2 Power Amplifier  

Price $999  
Dimensions 7H x 18W x 17D  
Weight 54 lbs.  
Power 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD  
IM 0.1% at 250 watts  
Response 5 Hz to 80 kHz, +0, -1 dB  
S/N 110 dB (A-weighted re 250 watts)  
Features Twin power meters; level controls; toroidal transformer; dual power supply

SPEC-1 Preamplifier  

Price $650  
Dimensions 7H x 18W x 14D  
Weight 24 lbs. 10 oz.  
Inputs 2 phono, 2 tape; tuner, mic; 2 aux  
Response 10 Hz to 70 kHz, ±0.5 dB  
Output 2V (rated); 7V (max)  
THD 0.03%  
Sensitivity 2.5 mV (phono), 150 mV (high level)  
Overload 500 mV (phono)  
Phono EQ 30 Hz to 15 kHz, ±0.2 dB  
Bass control +7.5 dB at 100 Hz (switchable)  
Treble +7.5 dB at 10 kHz (±20 dB at 20 kHz) (switchable)  
High filter 12 dB/octave above 8/12 kHz (switchable)  
Low filter 12 dB/octave below 15/30 Hz (switchable)  
Features Two-way tape dubbing; mic mixing; speaker selection

SA-8800 Integrated Amplifier  

Price $550  
Dimensions 61/4H x 17 11/16W x 14 1/8D  
Weight 34 lbs. 8 oz.  
Inputs 2 phono, 2 tape; 1 tuner, 1 aux  
Power 80 watts (19 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.005% THD  
IM 0.002% at 80 watts  
Response 5 Hz to 2 kHz, ±0.2 dB  
Overload 250 mV (phono)  
Phono EQ 20 Hz to 20 kHz, ±0.2 dB  
Bass control +10 dB at 100 Hz  
Treble +10 dB at 10 kHz  
High filter 6 dB/octave above 8 kHz  
Low filter 6 dB/octave below 15 kHz  
Features One-way tape dubbing; two-way tape dubbing; Fluroscan power meters; non-switching amp; DC power

SA-6800 Integrated Amplifier  

Price $300  
Dimensions 5 15/16H x 17 7/8W x 10 11/16D  
Weight 18 lbs.  
Inputs 1 phono; 2 tape; 1 tuner; 1 aux  
Power 45 watts (16.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD  
IM 0.03% at 45 watts  
Response 30 Hz to 15 kHz, ±0.3 dB  
Overload 180 mV (phono)  
Phono EQ 30 Hz to 15 kHz, ±0.3 dB  
Bass control +7.5 dB at 100 Hz  
Treble ±7.5 dB at 10 kHz  
Low filter 6 dB/octave below 15 Hz  
Features One-way tape dubbing; Fluroscan power meters; DC power

Models also available  
SPEC-4 Power Amplifier, $795;  
SA-9800 Integrated Amplifier, $750;  
SA-7800 Integrated Amplifier, $450;  
SA-5800 Integrated Amplifier, $200

P.S. AUDIO  
P.S. Audio  
1529 C. Stowell Center Plaza  
Santa Maria, Calif. 93454  

1 Power Amplifier  

Price $379.95  
Dimensions 7H x 19W x 8D  
Weight 25 lbs.  
Power 80 watts (19 dBW) continuous into 8 ohms from 2 Hz to 15 kHz at no more than 0.1% THD  
IM 0.1% at 80 watts  
Response 2 Hz to 150 kHz, ±0.5 dB  
S/N 100 dB (HP A-weighted)  
Features Dual-Dash mono power supply (patent pending); linearized amplifier

PS III Phono Preamplifier  

Price $184.95  
Dimensions 4H x 8 3/4W x 7D  
Weight 5 lbs.  
Inputs 1 phono  
Response 0.5 Hz to 200 kHz, ±0.1 dB  
Output 16V (rms)  
THD 0.01%  
IM 0.01%  
Sensitivity 1 mV (phono)  
Overload 160 mV (MM), 16 mV (MC) (phono)  
Phono EQ 3 Hz to 20 kHz, ±0.1 dB  
Features Passive RIAA EQ; storage linearized equalizer; switchable moving-coil input

Models also available  
PS II Preamplifier, $99.95

Models also available  
X-700VL integrated Amplifier/Equalizer, $139.95

RANDIX  
Randix Industries, Ltd.  
991 Broadway  
Albany, N.Y. 12204  

Randix Audiologic Integrated Amplifier  
LX52A/LX62A  

Price $299.95 (both amp and matching tuner as a pair)  
Dimensions 10 3/4H x 19W x 7D  
Weight 7 lbs.  
Inputs 1 phono (moving-magnet); 1 tape; 1 tuner  
Power 16 watts (11.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.5% THD  
Response 15 Hz to 25 kHz, ±3 dB  
Sensitivity 3 mV (phono); 150 mV (high level)  
Overload 60 mV (phono)  
S/N 70 dB (phono), 70 dB (aux) (un-weighted re 15 watts)  
Phono EQ 30 Hz to 15 kHz, ±0.5 dB  
Bass control +10 dB at 100 Hz  
Treble +10 dB at 10 kHz  
Features Single tape in/out loop; loudness; protection fuses

Models also available  
Randix Audiologic LX40A, $299.95 (both amp and matching tuner as a pair)

REVOX  
Studer Revox America, Inc.  
1819 Broadway  
Nashville, Tenn. 37203

PYRAMID  
Pyramid Industries  
12970-7N Branford St.  
Arleta, Calif. 91331

X-1000VL Integrated Amplifier/Equalizer  

Price $169.95  
Dimensions 1 1/4H x 7W x 6 1/8D  
Weight 2 lbs. 13 oz.  
Inputs Tuner  
Power 50 watts (17 dBW) continuous into 4 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
Response 20 Hz to 20 kHz, ±3 dB  
S/N 50 dB (low), 65 dB (high)  
Features Ten control frequencies; input impedance: 2.5 V(peak), 250 mV (high)

Models also available  
X-700VL integrated Amplifier/Equalizer, $139.95

B-750 Integrated Amplifier  

Price $999  
Dimensions 61/4H x 17 11/16W x 13 3/4D  
Weight 28 lbs. 10 oz.  
Inputs 2 phono; 3 tape; tuner; 2 aux  
Power 80 watts (19 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD and at any power level  
IM 0.05% at any power level  
Response 20 Hz to 20 kHz, ±0.5 dB  
Sensitivity 1.5 to 7 mV variable (phono)  
Overload 400 mV (phono)  
S/N 70 dB (phono), 90 dB (aux) (un-weighted re 75 watts)  
Phono EQ 20 Hz to 20 kHz, ±0.5 dB  
Bass control +8 dB at 120 Hz  
M adidas 3 dB at 9 kHz  
Treble +8 dB at 8 kHz  
High filter 12 dB/octave above 8 kHz  
Low filter 12 dB/octave below 50 Hz  
Features Two-way tape dubbing; separate power amp and preamp; tone control defeat; separate power supplies; short and overload protection; turn-on delay for transient suppression

Models also available  
Randix Audiologic LX40A, $299.95 (both amp and matching tuner as a pair)

RG DYNAMICS  
RG Dynamics, Inc.  
4448 W. Howard St.  
Skokie, Ill. 60076

RGD-3W Preamplifier  

Price $595
### RC-5000 Preamplifier

**Price:** $1,600  
**Dimensions:** 9½ H x 19½ W x 17½ D  
**Weight:** 33 lbs  
**Inputs:** 3 phono; 3 tape; tuner; 2 mic; 2 aux  
**Response:** 3 Hz to 30 KHz, ±0.5 dB  
**THD:** 0.003%  
**S/N:** 2.5 mV (phono); 150 mV (high level)  
**Features:**  
- Two-way tape dubbing; each phono input has independently adjustable input capacity for proper matching of any cartridge; 32-step precision volume control; true center "flat" positions on tone controls; selector section provides for any combination of source and/or tape with the selected mode clearly indicated by an LED display; tone defeat switch (also available as model RGD 3B standard rack panel; $615 model RGD 3BW 17" black panel with walnut ends)  

### RA-2040 Integrated Amplifier

**Price:** $860  
**Dimensions:** 5¼H x 19¼ W x 16¼ D  
**Weight:** 48 lbs 8 oz  
**Inputs:** 3 phono; 2 tape; tuner; aux  
**Power:** 120 watts (20.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD  
**IM:** 0.01% at 120 watts  
**Response:** DC to 200 kHz, ±3 dB  
**Sensitivity:** 2 mV (phono); 50 mV (high level)  
**Overload:** 450 mV (phono)  
**S/N:** 80 dB (phono); 100 dB (aux) (A-weighted re 120 watts)  
**Phono EQ:** 20 Hz to 20 kHz, ±0.2 dB  
**Bass control:** ±10 dB at 100 Hz  
**Trellie:** ±10 dB at 10 kHz  
**High filter:** 12 dB/octave above 24 kHz  
**Low filter:** 12 dB/octave below 15 kHz  
**Features:** Two-way tape dubbing; two-band octave equalizer; moving-coil head amp; switchable moving-magnet impedance; slimline design  

### Models also available


### SAEC Audio Electronics, Inc.

710 E. Macy St.  
Los Angeles, Calif. 90012

### 2600 Power Amplifier

**Price:** $1,350  
**Dimensions:** 7½ x 19¼ W x 14½ D  
**Weight:** 65 lbs  
**Power:** 400 watts (26 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM:** 0.05% at 400 watts  
**Response:** 20 Hz to 20 kHz, ±0.25 dB  
**S/N:** 100 dB (unweighted re 400 watts)  
**Features:** Parallel-series output; forced-air cooling; power meters; relay protection  

### X-25A Power Amplifier

**Price:** $1,200  
**Dimensions:** 7½ x 19 x 12 D  
**Weight:** 50 lbs  
**Power:** 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.02% at 250 watts  
**Response:** 20 Hz to 20 kHz, ±0.2 dB  
**S/N:** 110 dB (unweighted re 250 watts)  
**Features:** Class A; hyperonnic output; fully complementary design  

### 2300 Power Amplifier

**Price:** $700  
**Dimensions:** 5¼H x 19W x 12½ D  
**Weight:** 35 lbs  
**Power:** 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM:** 0.05% at 150 watts  
**Response:** 20 Hz to 20 kHz, ±0.25 dB  
**S/N:** 100 dB (unweighted re 150 watts)  
**Features:** Fully complementary design; 30-nm LED display; relay protection; monochrome construction  

### X-10A Power Amplifier

**Price:** $660  
**Dimensions:** 3¼H x 19W x 12½ D  
**Power:** 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.02% at 100 watts  
**Response:** 20 Hz to 20 kHz, ±0.2 dB  
**S/N:** 110 dB (unweighted re 100 watts)  
**Features:** Class A; hyperonnic output; fully complementary design  

### 3100 Power Amplifier

**Price:** $350  
**Dimensions:** 5¼H x 19W x 8½ D  
**Weight:** 19 lbs  

---

**Weights**  
3½H x 18W x 12D  
14 lbs  
2 phonos, 2 tape; 1 tuner; 1 aux; 1 external processor  
20 Hz to 20 kHz, ±0.05 dB; 0.5 Hz to 1 kHz, ±3 dB  
0.02% at rated output, 20 Hz to 20 kHz  
0.02% at 60 Hz and 7 KHz, mixed 11 at rated output  
Sensitivity  
2 mV (phono); 200 mV (high level)  
IM  
0.02% at 60 Hz and 7 KHz, mixed 11 at rated output  
Overload  
200 mV (phono) at 1 KHz, (sine wave)  
Bass control  
+14 dB at 12 KHZ  
Midrange  
None  
Treffle  
None  
High filter  
None  
Low filter  
12 dB/octave below 20 Hz  
Features  
Two-way tape dubbing; each phono input has independently adjustable input capacity for proper matching of any cartridge; 32-step precision volume control; true center "flat" positions on tone controls; selector section provides for any combination of source and/or tape with the selected mode clearly indicated by an LED display; tone defeat switch (also available as model RGD 3B standard rack panel; $615 model RGD 3BW 17" black panel with walnut ends)  

---

**Models also available**  

**SAEC Audio Electronics, Inc.**  
710 E. Macy St.  
Los Angeles, Calif. 90012

---

**2600 Power Amplifier**  
**Price:** $1,350  
**Dimensions:** 7½ x 19¼ W x 14½ D  
**Weight:** 65 lbs  
**Power:** 400 watts (26 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM:** 0.05% at 400 watts  
**Response:** 20 Hz to 20 kHz, ±0.25 dB  
**S/N:** 100 dB (unweighted re 400 watts)  
**Features:** Parallel-series output; forced-air cooling; power meters; relay protection

---

**X-25A Power Amplifier**  
**Price:** $1,200  
**Dimensions:** 7½ x 19 x 12 D  
**Weight:** 50 lbs  
**Power:** 250 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.02% at 250 watts  
**Response:** 20 Hz to 20 kHz, ±0.2 dB  
**S/N:** 110 dB (unweighted re 250 watts)  
**Features:** Class A; hyperonnic output; fully complementary design

---

**2300 Power Amplifier**  
**Price:** $700  
**Dimensions:** 5¼H x 19W x 12½ D  
**Weight:** 35 lbs  
**Power:** 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM:** 0.05% at 150 watts  
**Response:** 20 Hz to 20 kHz, ±0.25 dB  
**S/N:** 100 dB (unweighted re 150 watts)  
**Features:** Fully complementary design; 30-nm LED display; relay protection; monochrome construction

---

**X-10A Power Amplifier**  
**Price:** $660  
**Dimensions:** 3¼H x 19W x 12½ D  
**Power:** 100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD  
**IM:** 0.02% at 100 watts  
**Response:** 20 Hz to 20 kHz, ±0.2 dB  
**S/N:** 110 dB (unweighted re 100 watts)  
**Features:** Class A; hyperonnic output; fully complementary design

---

**3100 Power Amplifier**  
**Price:** $350  
**Dimensions:** 5¼H x 19W x 8½ D  
**Weight:** 19 lbs

---

**High Fidelity's Buying Guide to Stereo Components**
### Pyramid Model X Spec 5

- **Power:** 50 watts (17 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
- **IM:** 0.0% at 50 watts
- **Response:** 20 Hz to 20 kHz, ±0.25 dB
- **S/N:** 100 dB (unweighted re 50 watts)
- **Features:** Fully complementary design, relay speaker protection; LED power display; monocoque construction

### Rotel RC-5000

- **Power:** 72 dB (phono), 87 dB (aux) (unweighted re 100 watts)
- **Phono EQ:** 20 Hz to 20 kHz, ±0.5 dB
- **Bass control:** ±16 dB at 100 Hz
- **Midrange:** ±8 dB at 2 kHz
- **Treble:** ±16 dB at 10 kHz
- **Low filter:** 12/6 dB/octave below 300 Hz (switchable)
- **Features:** Two-way tape dubbing, separable power amp and preamp; relay speaker protection; tape EQ

### SANSUI BA-F1

- **Power:** X-15A Power Amplifier, N/A; 2400L Power Amplifier, $850; 2200 Power Amplifier, $500; 2100 Preamplifier, $950; 2900 Preamplifier, $500; 2922 Integrated Amplifier, $850; 3031 Integrated Amplifier, $650; C3A Integrated Amplifier, $255

### 2100L Preamplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$800</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7H x 19W x 7D</td>
</tr>
<tr>
<td>Weight</td>
<td>20 lbs</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono; 3 tape; tuner; 2 aux</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Output</td>
<td>2.5V</td>
</tr>
<tr>
<td>THD</td>
<td>0.005%</td>
</tr>
<tr>
<td>IM</td>
<td>0.005%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (phono), 140 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>150 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.5 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±16 dB at 100 Hz</td>
</tr>
<tr>
<td>Midrange</td>
<td>±8 dB at 2 kHz</td>
</tr>
<tr>
<td>Treble</td>
<td>±16 dB at 10 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>12/6 dB/octave below 300/100 Hz (switchable)</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; tape EQ; mute</td>
</tr>
</tbody>
</table>

### 3000 Preamplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$350</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 1/4H x 19W x 3 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>10 lbs</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono; 2 tape; tuner; aux</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Output</td>
<td>2.5V</td>
</tr>
<tr>
<td>THD</td>
<td>0.02%</td>
</tr>
<tr>
<td>IM</td>
<td>0.02%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (phono), 140 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>150 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>20 Hz to 20 kHz, ±0.5 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±16 dB at 100 Hz</td>
</tr>
<tr>
<td>Midrange</td>
<td>±8 dB at 2 kHz</td>
</tr>
<tr>
<td>Treble</td>
<td>±16 dB at 10 kHz</td>
</tr>
<tr>
<td>Low filter</td>
<td>12/6 dB/octave below 300/100 Hz (switchable)</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; tape EQ; mute</td>
</tr>
</tbody>
</table>

### 3022 Integrated Amplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$3700</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 1/4H x 19W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>42 lbs</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono; 2 tape; tuner; aux</td>
</tr>
<tr>
<td>Power</td>
<td>100 watts (20 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.05% at 100 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1.5 mV (phono), 80 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>150 mV (phono)</td>
</tr>
</tbody>
</table>

### SAE Two Series

#### A-14 Integrated Amplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$650</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 1/2H x 17 1/2W x 13 4/5D</td>
</tr>
<tr>
<td>Power</td>
<td>90 dB (20 kHz), 100 dB (aux) (unweighted re 140 watts)</td>
</tr>
<tr>
<td>IM</td>
<td>0.05% at 70 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (phono), 150 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>150 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>50 Hz to 15 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Low filter</td>
<td>6 dB/octave below 30 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; separable</td>
</tr>
<tr>
<td></td>
<td>power and preamp; parametric equalizer;</td>
</tr>
<tr>
<td></td>
<td>bar graph display; moving coil input</td>
</tr>
</tbody>
</table>

#### A-7 Integrated Amplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$400</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 1/2H x 17 1/2W x 13 4/5D</td>
</tr>
<tr>
<td>Power</td>
<td>70 watts (18.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.05% at 70 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (phono), 150 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>150 mV (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>86 dB (phono), 95 dB (aux) (unweighted re 70 watts)</td>
</tr>
<tr>
<td>Low filter</td>
<td>10 dB at 10 kHz</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way tape dubbing; separable</td>
</tr>
<tr>
<td></td>
<td>power and preamp; bar graph power and</td>
</tr>
<tr>
<td></td>
<td>level display; external processing circuit</td>
</tr>
</tbody>
</table>

### SANSUI Electronics Corp.

1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

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**A Note on Prices**

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

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**AU-X1 Integrated Amplifier**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$1,450</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7 13/16H x 18 15/16W x 17 1/4D</td>
</tr>
<tr>
<td>Weight</td>
<td>61 lbs 1 oz</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 phono (MM or MC); 2 tape, 1 tuner, 1 aux</td>
</tr>
<tr>
<td>Power</td>
<td>160 watts (22 dBW) continuous into 8 ohms from 5 Hz to 20 kHz at no more than 0.007% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.007% at 160 watts</td>
</tr>
<tr>
<td>Response</td>
<td>DC to 500 kHz, +0, -1 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (MM), 0.1 mV (MC) (phono)</td>
</tr>
<tr>
<td>Overload</td>
<td>330 mV (MM); 40 mV (MC) (phono)</td>
</tr>
<tr>
<td>S/N</td>
<td>91 dB (MM), 76 dB (MC) (phono)</td>
</tr>
<tr>
<td>Phone EQ</td>
<td>100 dB (aux) (A-weighted re 160 watts)</td>
</tr>
<tr>
<td>Low filter</td>
<td>6 dB/octave below 16 Hz</td>
</tr>
<tr>
<td>Features</td>
<td>Full 2-way tape dubbing; separable</td>
</tr>
<tr>
<td></td>
<td>power and preamp; slew rate of 260V/3</td>
</tr>
<tr>
<td></td>
<td>microseconds; 0.5 microsecond rise time,</td>
</tr>
<tr>
<td></td>
<td>Diamond Differential DC power and phono</td>
</tr>
<tr>
<td></td>
<td>equalization; DC pre-preamp and flat</td>
</tr>
<tr>
<td></td>
<td>amp; front panel pre-main switch; 2-system</td>
</tr>
<tr>
<td></td>
<td>speaker switch; &quot;jump&quot; switch</td>
</tr>
</tbody>
</table>

---

**AU-819 Integrated Amplifier**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$700</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6 5/8H x 19W x 17 1/2D (with rack-</td>
</tr>
<tr>
<td></td>
<td>mount adapters)</td>
</tr>
<tr>
<td>Weight</td>
<td>46 lbs 8 oz</td>
</tr>
<tr>
<td>Inputs</td>
<td>2 MM, 1 MC phone; 2 tape; 1 tuner, 1 aux</td>
</tr>
<tr>
<td>Power</td>
<td>90 watts (19.5 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.008% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.008% at 90 watts</td>
</tr>
<tr>
<td>Response</td>
<td>DC to 500 kHz, +0, -3 dB</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.5 mV (MM), 0.1 mV (MC) (phono)</td>
</tr>
<tr>
<td>Overload</td>
<td>350 mV (MM); 30 mV (MC) (phono)</td>
</tr>
</tbody>
</table>

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[80 Edition]
<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Power</th>
<th>IM</th>
<th>Response</th>
<th>Overload</th>
<th>S/N</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU-171 Integrated Amplifier</td>
<td>$550</td>
<td>6 3/4H x 19W x 16 1/2D</td>
<td>44 lbs. 15 oz</td>
<td>110 watts (20.5 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.008% THD</td>
<td>0.008% at 110 watts</td>
<td>DC to 200 kHz, +4, -3 dB</td>
<td>350 mV (phono)</td>
<td>80 dB (phono); 120 dB (A-weighted re 110 watts)</td>
<td>Separable power amp and preamp, DC amp, rack-mountable by detachable handles; switchable bass and treble turnover points; volume control via precision-stepped attenuator; mic mixing</td>
</tr>
<tr>
<td>BA-F1 Power Amplifier</td>
<td>$665</td>
<td>7 3/8H x 19W x 17 1/4D</td>
<td>44 lbs. 15 oz</td>
<td>110 watts (20.5 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.008% THD</td>
<td>0.008% at 110 watts</td>
<td>DC to 200 kHz, +4, -3 dB</td>
<td>6 dB/octave below 16 Hz</td>
<td>2 phono; 2 tape; tuner; aux</td>
<td>Low filter; High filter; Treble; Low filter; Treble; Features; Bass control ±10 dB at 50 Hz; Treble ±10 dB at 15 kHz; High filter 6 dB/octave above 10 kHz; Low filter 6 dB/octave below 16 Hz; Two-way tape dubbing; separable power and preamp, DC amp, rack-mountable by detachable handles; switchable bass and treble turnover points; volume control via precision-stepped attenuator; mic mixing</td>
</tr>
<tr>
<td>Alpha 1 Preamplifier</td>
<td>$400</td>
<td>5 1/4H x 19W x 12 1/2D</td>
<td>15 lbs.</td>
<td>100 watts (20 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.002% THD</td>
<td>0.010% at 100 kHz</td>
<td>15 Hz to 35 kHz, +2 dB</td>
<td>2V</td>
<td>2 phono; 2 tape; tuner; aux</td>
<td>Bass control ±7 dB at 50 Hz at 100 Hz position; ±11 dB at 100 Hz (900 Hz position)</td>
</tr>
<tr>
<td>Plus A35 Integrated Amplifier</td>
<td>$299.95</td>
<td>3 3/4H x 17W x 10 3/4D</td>
<td>26 lbs.</td>
<td>100 watts (20 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.002% THD</td>
<td>0.010% at 100 kHz</td>
<td>15 Hz to 100 kHz, +2 dB</td>
<td>2V</td>
<td>2 phono; 2 tape; tuner; aux</td>
<td>Bass control ±7 dB at 50 Hz at 100 Hz position; ±11 dB at 100 Hz (900 Hz position)</td>
</tr>
<tr>
<td>Alpha 6 Power Amplifier</td>
<td>$1100</td>
<td>6 1/8H x 19W x 12 1/2D</td>
<td>15 lbs.</td>
<td>100 watts (20 dBW) continuous into 4 or 8 ohms from 20 Hz to 20 kHz at no more than 0.004% THD</td>
<td>0.004% at 100 kHz</td>
<td>15 Hz to 100 kHz, +2 dB</td>
<td>2V</td>
<td>2 phono; 2 tape; tuner; aux</td>
<td>Bass control ±7 dB at 50 Hz at 100 Hz position; ±11 dB at 100 Hz (900 Hz position)</td>
</tr>
<tr>
<td>SCOTT H. H. Scott, Inc.</td>
<td>20 Commerce Way Woburn, Mass. 01801</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**M-25 Power Amplifier**

- **Price**: $1,200
- **Dimensions**: 6H x 16W x 14½D
- **Weight**: 51 lbs. 12 oz.
- **Power**: 120 watts (20 dBW) continuous into 8 ohms from 5 Hz to 30 kHz at no more than 0.01% THD
- **IM**: 0.006% at 120 watts
- **Response**: 5 Hz to 20 kHz, ±0 dB
- **S/N**: 120 dB (A-weighted re 120 watts)
- **Features**: gold-plated terminals, Class AB; rack-mount; optional A105A carrying case, transformer-output transistors, moving-coil input; 3 protection circuits; tone defeat; loudness; certified performance

**Models also available**
- S-402CP Integrated Amplifier, $225

**SHERWOOD**

**Sherwood**

4300 North California Ave.

Chicago, Ill. 60618

**S-702CP Integrated Amplifier**

- **Price**: $325
- **Dimensions**: 5½H x 17¼W x 12½D

**TA-E7B Preamplifier**

- **Price**: $620
- **Dimensions**: 6H x 18½W x 12¼D
- **Weight**: 26 lbs. 8 oz.
- **Inputs**: 2 phono, 2 tape; 1 tuner; 2 aux
- **Response**: 1 Hz to 150 kHz, +0, -1 dB
- **THD**: 0.003%
- **Sensitivity**: 250 mV (phono); 12.5 mV (head amp phono)
- **Phono EQ**: RIAA, ±0.2 dB; 1 Hz to 150 kHz, +0, -1 dB
- **Bass control**: ±10 dB at 25 Hz
- **Treble**: ±10 dB at 20 kHz
- **Features**: Two-way tape dubbing; direct-coupled FET input circuit and direct-coupled DC unit amplifiers; Shure LEC transistors for moving-coil cartridges; four power supply circuits for each channel; gold-plated phono inputs

**TA-F70 Integrated Amplifier**

- **Price**: $725
- **Dimensions**: 6½H x 17W x 16 13/16D
- **Weight**: 19 lbs. 3 oz.
- **Inputs**: 2 phono (1 moving-coil, 1 moving-magnet); 1 tape, 1 tuner, 1 aux
- **Power**: 90 watts (19.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.007% THD
- **IM**: 0.007% at rated output
- **Response**: 1 Hz to 100 kHz, +0, -1 dB
- **Sensitivity**: 2.5 mV (phono); 0.125 mV (head level)
- **PH/N**: 100 dB (phono); 105 dB (aux) (A-weighted)
- **Phono EQ**: RIAA, ±0.2 dB
- **Bass control**: ±10 dB at 250 Hz
- **Treble**: ±10 dB
- **Features**: Two-way tape dubbing; pulse power supply, thermodynamic cooling; high "hi" transistors, 20-segment power-output display

**TA-F60 Integrated Amplifier**

- **Price**: $450
- **Dimensions**: 6 5/16H x 17W x 13 7/16D
- **Weight**: 14 lbs. 11 oz.
- **Inputs**: 2 phono (1 moving-coil, 1 moving-magnet); 1 tape, 1 tuner, 1 aux
- **Power**: 75 watts (18.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.01% THD
- **IM**: 0.01% at rated output
- **Response**: 3 Hz to 70 kHz, +0, -1 dB
- **Sensitivity**: 2.5 mV (phono); 0.25 mV (head level)
- **PH/N**: 100 dB (phono); 100 dB (aux) (A-weighted)
- **Phono EQ**: RIAA, ±0.2 dB
- **Bass control**: ±10 dB at 300 Hz

**TA-E88B Preamplifier**

- **Price**: $1,300
- **Dimensions**: 3½H x 18½W x 14½D
- **Weight**: 20 lbs.
- **Inputs**: 2 phono; 2 tape; 1 tuner; 1 aux
- **Response**: DC to 500 kHz, +0, -1 dB
- **Output**: 1.5V
- **THD**: 0.002% at 10V out
- **IM**: 0.002% at 10V out
- **Sensitivity**: 2.5 mV (phono); 150 mV (high level)

**Models also available**
- S-105A Power Amplifier, $1,300
- S-402CP Integrated Amplifier, $225
- TA-105A Power Amplifier, $900
- TA-105B Power Amplifier, $900
- TA-105C Power Amplifier, $900

**SONY**

Sony Industries

9 W. 57th St.

New York, N.Y. 10019

**TA-888B Preamplifier**

- **Price**: $1,050
- **Dimensions**: 3½H x 18½W x 14½D
- **Weight**: 24 lbs. 3 oz.
- **Power**: 160 watts (22 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.5% THD
- **IM**: 0.1% at 22 watts
- **Response**: 5 Hz to 40 kHz, +0.5, -1 dB
- **S/N**: 110 dB (A-weighted)
- **Features**: High-efficiency, high-power pulse modulation circuitry with vertical FET power switching stage; pulse power supply; three stages of amplifier/speaker protection circuitry
### F-30 Integrated Amplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>20 watts (24 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.05% at 250 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>86 dB at 5 mV (phone); 100 dB (aux)</td>
</tr>
<tr>
<td>Phono EQ</td>
<td>RIAA, +0.3 dB</td>
</tr>
<tr>
<td>Bass control</td>
<td>±10 dB</td>
</tr>
<tr>
<td>Treble</td>
<td>±10 dB</td>
</tr>
<tr>
<td>Features</td>
<td>Electronic tonal defeat</td>
</tr>
</tbody>
</table>

**Models also available**
- TA-PTF Integrated Amplifier, NA
- TA-E868 Preamplifier, $1,300
- TA-N78 Power Amplifier, $920
- TA-F68 Integrated Amplifier, $610
- TA-N888 Power Amplifier, $600
- TA-F40 Integrated Amplifier, $350

### SOURCE ENGINEERING

#### Source Engineering

**Box 506**

**Wilmington, Mass. 01887**

**Specialist Preamplifier**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>IM</td>
<td>0.15% at 250 watts</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>30 mV (phone)</td>
</tr>
<tr>
<td>Phono EQ</td>
<td>None</td>
</tr>
<tr>
<td>Middle control</td>
<td>None</td>
</tr>
<tr>
<td>Treble</td>
<td>None</td>
</tr>
<tr>
<td>High filter</td>
<td>50 dB/octave above 7.5 Hz (mono only)</td>
</tr>
<tr>
<td>Low filter</td>
<td>24 dB/octave below 25/140 Hz (mono only)</td>
</tr>
<tr>
<td>Features</td>
<td>Mono disc equalization options to suit most LP, 45, and 78 rpm records, stereo volume expander (like VRE); mono noise-reduction system (like Source Noise Suppressor); constant-power balance control; headphone jack (30 mW into 600 ohms each channel)</td>
</tr>
</tbody>
</table>

**Models also available**
- PNS Preamplifier Noise Suppressor, $950

### SPECTRO ACOUSTICS

#### Spectro Acoustics, Inc.

**3200 George Washington Way**

**Richland, Wash. 99352**

**500R Power Amplifier**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>250 watts (23.9 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.15% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.15% at 250 watts</td>
</tr>
<tr>
<td>Response</td>
<td>10 Hz to 40 kHz, ±1 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>107 dB (A-weighted re 250 watts)</td>
</tr>
<tr>
<td>Features</td>
<td>Pro/Com amplifier; modular construction; Class AB circuitry; standard EIA rack-mount; optional solid oak or walnut end panels</td>
</tr>
</tbody>
</table>

### STAX

#### American Audiopot

**1407 N. Providence Road**

**Columbia, Mo. 65201**

**DA-80 Power Amplifier**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>45 watts (16.5 dBW) continuous into 8 ohms from DC to 25 kHz at no more than 0.0118% THD</td>
</tr>
<tr>
<td>IM</td>
<td>0.0118% at 25 kHz</td>
</tr>
<tr>
<td>Response</td>
<td>DC to 60 kHz, ±0.25 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>100 dB (A-weighted re 10 mV)</td>
</tr>
<tr>
<td>Features</td>
<td>Protective circuits for short circuit, thermal, DC; pure Class A operation; DC coupling</td>
</tr>
</tbody>
</table>

### SRA-12S-R11 Preamplifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>50 Hz to 100 kHz, ±0.3 dB</td>
</tr>
<tr>
<td>IM</td>
<td>0.02%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1 mV (phone); 100 mV (high level)</td>
</tr>
<tr>
<td>Overload</td>
<td>70 mV (phone)</td>
</tr>
<tr>
<td>Phono EQ</td>
<td>30 Hz to 15 kHz, ±0.5 dB</td>
</tr>
<tr>
<td>Features</td>
<td>One-way tape dubbing, built-in headphone amplifier</td>
</tr>
</tbody>
</table>

**Models also available**
- DA-80M Power Amplifier, $1,450
STRELIOFF
Strelioff Systems Designs
5305 Tendilla Ave.
Woodland Hills, Calif. 91364

DC 1 200/200 Power Amplifier
Price $2,250
Dimensions 7H x 19W x 12D
Weight 50 lbs.
Power 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.0% THD
IM 1.0% at 200 watts
Response 10 Hz to 25 kHz, ± 1 dB
S/N 98 dB (unweighted re 200 watts)
Features Class AB circuit design employs only discrete devices; 220 Joule power supply; fully modular chassis design

TA 1/RS 1 Preampifier
Price $1,750
Dimensions 37W x 19H x 15D (TA-1); 37W x 19H x 11D (RS-1)
Weight 25 lbs. (both units)
Inputs 2 phono; 1 tape; 1 tuner; 1 mic; 2 aux
Response 10 Hz to 100 kHz, ± 1.0 dB
Output 10V
THD 0.1%
IM 0.1%
Sensitivity 0.20 mV (phono); 20 mV (high level)
Overload 500 mV (phono)
Phono EQ 20 Hz to 20 kHz, ± 1.0 dB
Features Two fully separate phono sections; circuit design employs only discrete devices on plug-in circuit boards; all AC functions isolated within RS-1 chassis

Models also available
DC 1 100/100 Power Amplifier, $1,750

TEAC
Teac Corp.
7733 Telegraph Road
Montebello, Calif. 90640

MA-7 Power Amplifier
Price $830
Power 150 watts (21.75 dBW) continuous into 8 ohms from 10 Hz to 20 kHz at no more than 0.03% THD
IM 0.003% at 150 watts
Response DC to 300 kHz, ± 3 dB
S/N 123 dBV (A-weighted re 150 watts)
Features Two mono amps on one chassis; slew rate of ±170V; output bandwidth, 350 kHz (IFH -3 dB); low drift output, ±50 mV or less; equivalent input noise of -121 dBV (at short input, A-weighted); input sensitivity of 150W re 1V

TECHNICS
Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07094

SU-8099 Integrated Amplifier
Price $1,000
Dimensions 5 1/4 x 32H x 17 23/32W x 16 7/32D
Weight 44 lbs. 1 oz.
Inputs 2 phono (moving coil and moving magnet), 2 tape; 1 tuner, 1 aux
Power 115 watts (20.5 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.007% THD
IM 0.007% at 115 watts
Response DC to 130 kHz, ± 1 dB, 20 Hz to 20 kHz, ± 0.1 dB
Sensitivity 2.5 µV moving magnet, 100 mV moving coil (phono), 200 mV (high level)
Overload 250 mV moving magnet, 10 mV moving coil (phono)

SU-8055 Integrated Amplifier
Price $330
Dimensions 5 1/2 x 32H x 15 16/32W x 10 1/32D
Weight 16 lbs. 13 oz.
Inputs 1 phono moving magnet and moving coil; 2 tape; 1 tuner, 1 aux
Power 48 watts (16.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.02% at 48 watts
Response 10 Hz to 60 kHz, ± 0.1 dB
Sensitivity 2.5 mV moving magnet, 170 µV

1980 Edition
### Models also available


### THRESHOLD

**Threshold Corp.**  
1832 Tribute Road, # E  
Sacramento, Calif. 95815

**Stasis 1 Power Amplifier**

- **Price**: $3,000
- **Dimensions**: 8½H x 19W x 16½D
- **Weight**: 96 lbs.
- **Power**: 150 watts (21.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz, +12 dB (640 to 12.5 kHz) at 120 watts; 2 tap, 1 aux
- **Response**: 5 Hz to 100 kHz, +0, -1 dB (tuner)
- **Features**: Remote power switch; selectable input source; 2 tape monitors

### 4000 Power Amplifier

- **Price**: $2,160
- **Dimensions**: 6 15/16H x 19W x 17¼D
- **Weight**: 83 lbs.
- **Power**: 200 watts (23 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.05% THD
- **IM**: 0.05% at 200 watts
- **Response**: 20 Hz to 20 kHz, +0 dB
- **S/N**: 105 dB
- **Features**: Remote power switch; dual power amplifier; switchable power amp and preamp; switchable 60-watt Class A operation; 4 outputs; built-in head amp; switchable phono input; muting; continuously variable loudness control

### SL-10 Preamplifier

- **Price**: $943
- **Dimensions**: 2⅞H x 19W x 8D
- **Weight**: 18 lbs. 4 oz.
- **Inputs**: 1 phono, 1 tape; 1 tuner; 1 aux
- **Response**: DC to 500 kHz, +0, -3 dB
- **Output**: 5V
- **THD**: 0.006%
- **IM**: 0.008%
- **Overload**: 320 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, +0.5 dB

### Models also available

**Model Three Power Amplifier**, $390; **Model Seven Preamplifier**, $950.

### TOSHIBA

**Toshiba America, Inc.** 280 Park Ave.  
New York, N.Y. 10017

**SC-66S Power Amplifier**

- **Price**: $349.95
- **Dimensions**: 3 4/5H x 16⅞W x 13 9/10D
- **Weight**: 18 lbs. 11 oz.
- **Power**: 65 watts (18 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.02% THD (IHF-A weighted)
- **Response**: DC to 80 kHz, +0 dB (IHF-A weighted)
- **S/N**: 117 dB (IHF-A weighted)

**SC-335 Power Amplifier**

- **Price**: $179.95
- **Dimensions**: 3 4/5H x 16⅞W x 9½D
- **Weight**: 13 lbs. 6 oz.
- **Power**: 40 watts (16 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.1% THD
- **Response**: 5 Hz to 80 kHz, +1 dB
- **S/N**: 95 dB

**SY-335 Preamplifier**

- **Price**: $119.95
- **Dimensions**: 3 4/5H x 16⅞W x 9½D
- **Weight**: 6 lbs. 10 oz.
- **Inputs**: 2.5 mV (phono); 150 mV (tape); 150 mV (tuner); 2 mV (mic); 150 mV (aux)
- **Response**: 50 Hz to 15 kHz, +0.5 dB
- **Output**: 1V
- **THD**: 0.1%
- **Overload**: 150 mV (phono)
- **Bass control**: +10 dB at 100 Hz
- **Treble**: +10 dB at 10 kHz

### Models also available

**M-15 Power Amplifier**, $339.95; **C-15 Preamplifier**, $299.95; **SY-66S Power Amplifier**, $199.95.

### CA-2010 Integrated Amplifier

- **Price**: $850
- **Dimensions**: 6⅝H x 18⅛W x 14⅝D
- **Weight**: 44 lbs.
- **Inputs**: 3 phono; 2 tape; tuner; aux
- **Power**: 120 watts (20.75 dBW) continuous into 8 ohms from 20 Hz to 20 kHz at no more than 0.03% THD
- **IM**: 0.03% at 120 watts
- **Response**: 5 Hz to 60 kHz (+0, -1 dB (tuner to speaker output))
- **Sensitivity**: 2 mV (phono)
- **Overload**: 310 mV (phono)
- **S/N**: 96 dB (phono); 100 dB (aux) (IHF-A weighted at 115 watts)
- **Bass control**: +10 dB at 20 Hz (5.5 kHz)
- **Treble**: +10 dB at 20 kHz (2.5 kHz)
- **High filter**: 12 dB/octave above 10 kHz
- **Low filter**: 12 dB/octave below 15 Hz
- **Features**: Two-way tape dubbing; selectable power amp and preamp; switchable 30-watt Class A operation; output monitors; built-in head amp; switchable phono input; muting; continuously variable loudness control

### C-6 Preamplifier

- **Price**: $450
- **Dimensions**: 4½H x 17½W x 13 5/16D
- **Weight**: 13 lbs.
- **Inputs**: 2 phono; 2 tape; 1 tuner; 1 aux
- **Response**: 10 Hz to 100 kHz, +0.3 dB
- **Output**: 2V
- **THD**: 0.003% IM; 0.003% aux to pre out
- **Sensitivity**: 2.5 mV (phono); 150 mV (high level)
- **Overload**: 240 mV (phono)
- **Phono EQ**: +0 dB at 20 Hz, +0.2 dB
- **Bass control**: +12 dB (31.5 to 640 Hz)
- **Treble**: +12 dB (640 to 12.5 kHz)
- **High filter**: 12 dB/octave above 10 kHz
- **Low filter**: 12 dB/octave below 15 Hz
- **Features**: Parametric tone control; moving-coil cartridge head amp; independent input and record-out selector

### Models also available

**Tuners**

**AIWA**
Aiwa America
35 Oxford Dr.
Moonachie, N.J. 07074

**ST-R22U**
Price $200
Dimensions 2 3/16H x 8 5/16W x 6 5/6D
Weight 4 lbs. 6 oz.
S/N 73 dB/70 dB
Response 50 Hz to 10 kHz ± 0.5 dB/30 Hz to 15 kHz ± 0.5 dB
THD 0.15% (1 kHz)/0.25% (1 kHz)
Separation 45 dB, 1 kHz
Capture 1.5 dB
Selectivity 70 dB
Features Digital frequency display; 4-LED signal strength meter; hi-blend switch; AFC/muting switch; built-in recording level oscillator; -40 to +13 dB peak meters level oscillator; -40 to +13 dB peak meters

Models also available AT-9300, $210

**AKAI**
Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90220

**AT-2250**
Price $150
Dimensions 5 1/10H x 15W x 8 7/10D
Weight 10 lbs. 5 oz.
Quieting 17.7 dB/37.7 dB
S/N 70 dB
Response 30 Hz to 15 kHz ± 3 dB
THD 0.0% (1 kHz)
Separation 42 dB (1 kHz)
Subcarrier 40 dB
Capture 1.3 dB
Selectivity 65 dB

Models also available AT-2450, $225

**ARMSTRONG**
Armstrong Audio (U.S.A.), Inc.
Sindell Organization
11046 Santa Monica Blvd.
Los Angeles, Calif. 90025

**TU-850**
Price $480
Dimensions 6 29/64H x 17 5/64W x 15 5/64D
Weight 24 lbs. 5 oz.
Quieting 50 dB/116 dB
S/N 84 dB (mono)/62 dB (stereo)
Response 20 Hz to 15 kHz ± 0.2, -1.5 dB
THD 0.0% (20 to 15 kHz)/0.05% (20 to 15 kHz)
Separation 50 dB, 1 kHz to 10 kHz
Subcarrier 80 dB
Capture 1.5 dB
Selectivity 65 dB
Features Multi-function meters; wide/narrow band; test tone

Models also available TU-630, $340

**CROWN**
Crown International
1718 W. Mishawaka Road
Elkhart, Ind. 46514

**AT-9700U**
Price $520
Dimensions 6 3/16H x 18 9/16W x 14 13/16D
Weight 21 lbs. 3 oz.
S/N 80 dB/78 dB
Response 30 Hz to 15 kHz, ± 0.2, -0.5 dB/50 Hz to 15 kHz ± 0.2 dB
THD 0.03% (1 kHz)/0.05% (1 kHz)
Separation 50 dB, 1 kHz
Subcarrier 65 dB
Capture 1 dB
Selectivity 80 dB
Features Quartz PLL-MPX circuitry; quartz oscillation; mini-size panel

**FM-30**
Price $300 (assembled)
Dimensions 4 1/4H x 13 1/2W x 9D
Weight 11 lbs.
Quieting 19.2 dB
S/N 65 dB
Response 20 Hz to 15 kHz ± 1 dB (mono)
THD 0.5% (1 kHz)/0.9% (3 kHz)
Separation 30 dB, 50 Hz to 10 kHz
Subcarrier 50 dB
Capture 1.5 dB
Selectivity 65 dB

Models also available SMT-2, $295

**DENON**
American Audioport, Inc.
1407 N. Providence Rd.
Columbia, Mo. 65291

**EDINBURGH WIRELESS CO.**
Import Audio Ltd.
13430 Clayton Rd
St. Louis, Mo. 63131

**SMT-2**
Price $600
Response 30 Hz to 15 kHz
THD 0.7% at 100% modulation; 0.2% at 90% modulation (stereo)
Capture 1.3 dB
Selectivity 65 dB
Features Eight preset buttons on front panel; no scale on front; all—stations are preset on back only; stereo and center-tuning LED on front panel

1980 Edition
High Fidelity's Buying Guide to Stereo Components

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Quieting</th>
<th>S/N</th>
<th>Response</th>
<th>THD</th>
<th>Separation</th>
<th>Subcarrier</th>
<th>Capture</th>
<th>Selectivity</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AJ-1219</strong></td>
<td>$120 (k)</td>
<td>3 1/16 x 13W x 11D</td>
<td>12 lbs</td>
<td>11.25 dB (mono, 30 dB)</td>
<td>12 dB</td>
<td>40 dB</td>
<td>2 dB</td>
<td>60 dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FT-8000</strong></td>
<td>$460</td>
<td>3 1/16 x 17W x 15 3/32D</td>
<td>13 lbs</td>
<td>15.7 dB/37.2 dB</td>
<td>72 dB/68 dB</td>
<td>20 Hz to 15 kHz +0.5, -1.2 dB</td>
<td>60 dB</td>
<td>80 dB</td>
<td>Four-stage variable capacitor front end</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FT-440B</strong></td>
<td>$300</td>
<td>6 2/3H x 14W x 15 1/10D</td>
<td>15 lbs</td>
<td>16.1 dB/37 dB</td>
<td>76 dB/70 dB</td>
<td>30 Hz to 15 kHz +0, -1 dB</td>
<td>60 dB</td>
<td>80 dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FT-5000, FT-4000, FT-2000</strong></td>
<td>$270, $183, $130</td>
<td>3 1/16H x 9 1/16W x 10 9/16D</td>
<td>15 lbs</td>
<td>16.1 dB/37.2 dB</td>
<td>76 dB/70 dB</td>
<td>30 Hz to 15 kHz +0, -1 dB</td>
<td>60 dB</td>
<td>80 dB</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>T-1000</strong></td>
<td>$795</td>
<td>19W</td>
<td>12 lbs</td>
<td>12 dB/36.1 dB</td>
<td>75/75 dB</td>
<td>15 Hz to 16 kHz +0.5, -1 dB</td>
<td>60 dB</td>
<td>100 dB</td>
<td>Features: Ten preset memory with Nicad battery for storage, 4-digit readout, push button up/down tuning, muting with adjustable threshold manual or auto tuning, narrow or wide band with switch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FM-2421</strong></td>
<td>$449.95</td>
<td>3/16H x 17 1/3W x 13D</td>
<td>15 lbs</td>
<td>13.2 dB/35.9 dB</td>
<td>75/70 dB</td>
<td>20 Hz to 15 kHz +1 dB</td>
<td>60 dB</td>
<td>80 dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HK-500</strong></td>
<td>$279</td>
<td>5/4H x 164W x 12D</td>
<td>17 lbs</td>
<td>75 dB</td>
<td>46 dB (1 kHz), 36 dB (10 kHz)</td>
<td>60/70 dB</td>
<td>0.8 dB</td>
<td>75 dB</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>HEATHKIT</strong></td>
<td>$180</td>
<td>3/16H x 9 1/16W x 10 9/16D</td>
<td>8 lbs</td>
<td>8 lbs</td>
<td>75 dB</td>
<td>30 Hz to 10 kHz</td>
<td>60 dB</td>
<td>80 dB</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><strong>JVC</strong></td>
<td>$250</td>
<td>5/4W x 174W x 12W</td>
<td>15 lbs</td>
<td>17.3 dB</td>
<td>75 dB</td>
<td>30 Hz to 15 kHz +0.3, -1 dB</td>
<td>60 dB</td>
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<tr>
<td><strong>T-40P</strong></td>
<td>$370</td>
<td>4 5/8H x 16 9/16W x 11 1/16W</td>
<td>7 lbs</td>
<td>21.7 dB/30.2 dB</td>
<td>75 dB</td>
<td>20 Hz to 15 kHz +0.5, -3 dB</td>
<td>60 dB</td>
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<td><strong>HI-FI</strong></td>
<td>$230</td>
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<td>78 dB/72 dB</td>
<td>20 Hz to 15 kHz +0.5, -0.6 dB</td>
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<td>3 1/4W x 9 1/4W x 10 9/16D</td>
<td>15 lbs</td>
<td>16.1 dB/37 dB</td>
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<td><strong>T-V3</strong></td>
<td>$140</td>
<td>3/16H x 9 1/16W x 12 1/16D</td>
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<td>76 dB/70 dB</td>
<td>30 Hz to 15 kHz +0, -1 dB</td>
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<th>Response</th>
<th>THD</th>
<th>Separation</th>
<th>Subcarrier</th>
<th>Capture</th>
<th>Selectivity</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akai AT-2650</td>
<td>$440</td>
<td>3¼H x 16W x 9D</td>
<td>11 lbs</td>
<td>17.3 dBf/37.3 dBf</td>
<td>72 dB/68 dB</td>
<td>30 Hz to 15 kHz, ±1 dB (mono)</td>
<td>0.06% (1 kHz)/0.09% (1 kHz)</td>
<td>50 Hz to 15 kHz, +0.2, -0.8 dB/20 Hz to 18 kHz, +0.2, -1.5 dB</td>
<td>45 dB</td>
<td>1.5 dB</td>
<td>90 dB</td>
<td>Optional Dolby FM circuit board available at $44</td>
</tr>
<tr>
<td>Harman Kardon HK-500</td>
<td></td>
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<tr>
<td>Kenwood L-07T Mk II</td>
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<tr>
<td>Onkyo T-909</td>
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<td>Phase Linear 5100</td>
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<tr>
<td>Revox B-760</td>
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<tr>
<td>Sansui TU-910</td>
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<td>Scott 570T</td>
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<tr>
<td>Nakamichi USA Corp.</td>
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</tr>
<tr>
<td>Gamma V</td>
<td>$700</td>
<td>2½H x 19W x 13D</td>
<td>13 lbs 3 oz</td>
<td>13.2 dBf/34.8 dBf</td>
<td>81 dB/75 dB</td>
<td>50 Hz to 15 kHz, +0.2, -0.8 dB/20 Hz to 18 kHz, +0.2, -1.5 dB</td>
<td>0.04% (1 kHz)/0.06% (1 kHz)</td>
<td>48 dB, 100 Hz to 10 kHz</td>
<td>65 dB</td>
<td>1 dB</td>
<td>80 dB</td>
<td>LED digital station frequency read-out; automatic and manual electronic tuning; with 6-station electronic preset; selectable IF stage and Dolby de-emphasis; fixed and variable output level</td>
</tr>
<tr>
<td>Nikko Audio</td>
<td></td>
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<tr>
<td>Van Nuys, Calif. 91406</td>
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</tr>
</tbody>
</table>

**NT-790**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Quieting</th>
<th>S/N</th>
<th>Response</th>
<th>THD</th>
<th>Separation</th>
<th>Subcarrier</th>
<th>Capture</th>
<th>Selectivity</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$180</td>
<td>3¼H x 16½W x 13D</td>
<td>10 lbs 14 oz</td>
<td>20 dBf/35 dBf</td>
<td>72 dB/60 dB</td>
<td>30 Hz to 15 kHz, ±2 dB</td>
<td>0.2% (1 kHz)/0.5% (1 kHz)</td>
<td>30 dB, 50 Hz to 10 kHz</td>
<td>45 dB</td>
<td>1.5 dB</td>
<td>55 dB</td>
<td>Quadrature FM detector, PLL dual gate MOSFET FM, FM muting; high blend; LED signal strength and center tuning indicators</td>
</tr>
</tbody>
</table>

**Models also available**

Gamma I, $400; NT-890, $220

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High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Models also available</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-4090, $229.95</td>
</tr>
</tbody>
</table>

| OPTONICA |
| Sharp Electronics Corp. |
| 10 Keystone Place |
| Paramus, N.J. 07652 |

| AH-673 |
| Price $530 |
| Dimensions 15½H x 18W x 13½D |
| Weight 25 lbs. |
| Quieting 11.7 dB/33.2 dB |
| S/N 72 dB |
| Response 20 Hz to 15 kHz |
| THD 0.2% (1 kHz) |
| Separation 50 dB, 1 kHz |
| Capture 1.2 dB |
| Selectivity 80 dB |
| Features Multipath indicator; wideband AM; also available with black front panel as AH-673 at $550 |

| Models also available |
| AH-165 Tuner, $330 |

| PIONEER |
| U. S. Pioneer Electronics Corp. |
| 85 Oxford Drive |
| Moonachie, N.J. 07074 |

| TX-9800 |
| Price $450 |
| Dimensions 6⅛H x 17 11/16W x 15¼D |
| Weight 20 lbs. 8 oz. |
| Quieting 13.2 dB/36.1 dB |
| S/N 83 dB/79 dB |
| Response 20 Hz to 15 kHz, +0.2 dB/ -0.5 dB |
| THD 0.05% (100 Hz) |
| Separation 40 dB, 20 Hz to 10 kHz |
| Capture 0.8 dB |
| Selectivity 30 dB |
| Features Quartz locked tuning; 11 2/5" long dial scale with station memory markers |

| Models also available |
| TX-8800, $200 |

| REVOX |
| Studer Revox America, Inc. |
| 1819 Broadway |
| Nashville, Tenn. 37203 |

| B-760 |
| Price $1,648 |
| Dimensions 6H x 17¼W x 13¼D |
| Weight 26 lbs. 7 oz. |
| Quieting 12.8 dB/35.1 dB |
| S/N 75 dB (stereo) |
| Response 30 to 15 kHz, +1 dB (stereo) |
| THD 0.15% (1 kHz) |
| Separation 42 dB (1 kHz) |
| Subcarrier 65 dB |
| Capture 0.9 dB |
| Selectivity 96 dB |
| Features Digital frequency synthesizer (25 kHz incremented), quartz-controlled to within 50 PPM accuracy, 15-station memory, pushbutton programmable; Dolby B card option; adjustable muting; multipath scope output; seven-digit LED display of station frequency and station number; non-volatile CMOS memory |

| Models also available |
| TX-8800, $200 |

| ROGERS |
| Reference Monitor International, Inc. |
| 2330 C Camino Vida Roble |
| Carlsbad, Calif. 92008 |

| T-75 Tuner |
| Price $360 |
| Dimensions 4¾H x 14½W x 11¼D |
| Weight 7 lbs. |

| ROTEL |
| Rotel of America, Inc. |
| 1055 Saw Mill River Rd. |
| Ardsley, N.Y. 10502 |

| RT-2100 |
| Price $640 |
| Dimensions 5¼H x 19¼W x 13¾D |
| Weight 32 lbs. |
| Quieting 9.3 dB/36.8 dB |
| S/N 80 dB/75 dB |
| Response 30 Hz to 15 kHz, +0.2 dB (mono) |
| THD 0.05% (stereo/mono); 0.15% (stereo/narrow) |
| Separation 47 dB (1 kHz) |
| Subcarrier 80 dB |
| Capture 0.8 dB |
| Selectivity 90 dB |
| Features Quartz phase lock; digital station readout; MOSFET front end; LED signal/multipath indicator; rack-mountable; Dolby |
### SAE TWO SERIES

#### T-14

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>TU-517, $260; TU-417, $275; TU-317, $240; TU-217, $190</td>
</tr>
</tbody>
</table>

#### SANSUI

**SANSUI Electronics Corp.**  
1250 Valley Brook Ave.  
Lyndhurst, N.J. 07071

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>S-32 CP</td>
</tr>
<tr>
<td>Price</td>
<td>$290</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5¼ ″H x 17¾ ″W x 12½ ″D</td>
</tr>
<tr>
<td>Weight</td>
<td>14 lbs. 8 oz.</td>
</tr>
</tbody>
</table>

#### T-919

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>SCOTT</td>
</tr>
<tr>
<td>Price</td>
<td>$900</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6¼ ″H x 17¼ ″W x 11¼ ″D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs.</td>
</tr>
</tbody>
</table>

### SONY

**SONY Industries**  
9 West 57th St.  
New York, N.Y. 10019

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>ST-A7B</td>
</tr>
<tr>
<td>Price</td>
<td>$900</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6¼ ″H x 17¼ ″W x 11¼ ″D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs.</td>
</tr>
</tbody>
</table>
### Quartz-crystal frequency synthesis
- Digital and analogue readout
- Muting; input and tuning indicator

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 lbs. 3 oz.</td>
<td>$500</td>
</tr>
</tbody>
</table>

### Features
- Quartz frequency synthesis tuner
- Selectivity
- Separation
- THD
- Response
- S/N
- Quieting

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>114 H x 18 1/8 W x 11 D</td>
<td>$600</td>
</tr>
</tbody>
</table>

### TECHNICS
Technics by Panasonic

#### One Panasonic Way
Socacaus, N.J. 07094

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>$400</td>
<td>14 1/2 H x 18 1/8 W x 11 D</td>
<td>8 lbs. 10 oz.</td>
</tr>
</tbody>
</table>

### SPECTRO ACOUSTICS
Spectro Acoustics Co.

#### 3200 George Washington Way
Richland, Wash. 99352

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 lbs. 10 oz.</td>
<td>$500</td>
</tr>
</tbody>
</table>

### TEAC
Teac Corp. of America

#### 7733 Telegraph Rd.
Montebello, Calif. 90640

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 lbs.</td>
<td>$250</td>
</tr>
</tbody>
</table>

### TOSHIBA
Toshiba America, Inc.

#### 280 Park Ave.
New York, N.Y. 10017

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 lbs. 13 oz.</td>
<td>$259.95</td>
</tr>
</tbody>
</table>

### YAMAHA
Yamaha International Corp.

#### 6600 Orangethorpe Ave.
Buena Park, Calif. 90620

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 lbs. 6 oz.</td>
<td>$385</td>
</tr>
</tbody>
</table>

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### Specifications

#### ST-A3A
- Weight: 12 lbs. 5 oz.
- Price: $200

#### ST-9038
- Weight: 8 lbs. 10 oz.
- Price: $400

#### ST-CO1
- Weight: 6 lbs. 6 oz.
- Price: $260

#### ST-665
- Weight: 7 lbs.
- Price: $299.95

#### ST-1010
- Weight: 17 lbs.
- Price: $385

#### TX-300
- Weight: 14 lbs.
- Price: $250

---

### Models also available

#### ST-9038 Tuner, $460; ST-8077, $280; ST-8011, $170

#### ST-665
- Dimensions: 16 3/8 H x 2 3/10 W x 11 1/4 D
- Weight: 7 lbs.
- S/N: 72 dB/68 dB
- Response: 20 Hz to 15 kHz +0.2, -0.8 dB
- Capture: 1 dB
- Selectivity: 80 dB

#### TECHNICS
Technics by Panasonic

#### One Panasonic Way
Socacaus, N.J. 07094

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>$600</td>
<td>14 1/2 H x 18 1/8 W x 11 D</td>
<td>8 lbs. 10 oz.</td>
</tr>
</tbody>
</table>

#### SPECTRO ACOUSTICS
Spectro Acoustics Co.

#### 3200 George Washington Way
Richland, Wash. 99352

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 lbs. 3 oz.</td>
<td>$500</td>
</tr>
</tbody>
</table>

#### TEAC
Teac Corp. of America

#### 7733 Telegraph Rd.
Montebello, Calif. 90640

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 lbs.</td>
<td>$250</td>
</tr>
</tbody>
</table>

#### TOSHIBA
Toshiba America, Inc.

#### 280 Park Ave.
New York, N.Y. 10017

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 lbs. 13 oz.</td>
<td>$259.95</td>
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</table>

#### YAMAHA
Yamaha International Corp.

#### 6600 Orangethorpe Ave.
Buena Park, Calif. 90620

<table>
<thead>
<tr>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 lbs. 6 oz.</td>
<td>$385</td>
</tr>
</tbody>
</table>
Receivers

ADVENT
Advent Corp.
195 Albany St.
Cambridge, Mass. 02139

AX-7800V
Price $590
Dimensions 4 1/4 x 20 1/16 x 17 5/16
Weight 23 lbs. 3 oz.
Quieing 17.2 dB/37 2 dB (50 dB)
S/N 75 dB/70 dB
THD 0.6% (1 kHz)/0.2% (1 kHz)
Separation 45 dB (1 kHz)
Selectivity 75 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
Response 10 Hz to 50 kHz + 1 dB
S/N 80 dB (phono); 75 dB (tuner), 95 dB (aux)
Phono EQ 30 Hz to 15 kHz ± 0.5 dB
Features FM synthesized tuning, 6-station preset controls; digital frequency readout; 9-point LED peak-indicator, selectable bass and treble frequency turnover

Models also available
AX-7700V, $300, AX-7300, $210

AKAI
Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

AA-R50
Price $450
S/N 75 dB
Response 50 Hz to 15 kHz ± 1 dB
THD 0.1% (1 kHz)
Separation 45 dB (1 kHz)
Capture 1 dB
Selectivity 75 dB
Power 62 watts (17.75 dBW) continuous from 10 Hz to 40 kHz into 8 ohms at no more than 0.04% THD
Response 5 Hz to 50 kHz ± 1 dB
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 75 dB (phono), 90 dB (aux)
Phono EQ 30 Hz to 15 kHz ± 1 dB

AA-R40
Price $400
S/N 72 dB
Response 50 Hz to 15 kHz ± 1 dB
THD 0.2% (1 kHz)
Separation 42 dB (1 kHz)
Capture 1 dB
Selectivity 70 dB
Power 50 watts (17 dBW) continuous from 10 Hz to 40 kHz into 8 ohms at no more than 0.04% THD
Response 5 Hz to 50 kHz ± 1 dB
Sensitivity 3 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 75 dB (phono), 90 dB (aux)
Phono EQ 30 Hz to 15 kHz ± 1 dB

Models also available
AA-R30, $300, AA-R20, $250

ARMSTRONG
Armstrong Audio (U.S.A.), Inc.
Sindell Organization
11046 Santa Monica Blvd.
Los Angeles, Calif. 90025

626
Price $625
Dimensions 3 1/4 x 19 1/4 x 11 1/4
Weight 15 lbs.
S/N 66 dB
Response 30 Hz to 14 kHz ± 3 dB (mono)
THD 0.2% (1 kHz) (mono)
Separation 40 dB, 100 Hz to 8 kHz
Subcarrier 50 dB
Capture 1.75 dB
Selectivity 56 dB
Power 40 watts (16 dBW) continuous from 15 Hz to 45 kHz at no more than 0.08% THD
IM 0.08% at 40 watts

Models also available
AX-7700V, $300, AX-7300, $210

BANG & OLUFSEN
Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Ill. 60007

TA-150
Price $1,125
Dimensions 41/8 x 19 1/8 x 10 1/4
Weight 25 lbs.
Quieing 15 dB/30 dB
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz ± 1.5 dB/30 Hz to 15 kHz ± 1.5 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 35 dB, 60 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 75 dB
Power 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 70 watts
Response 20 Hz to 100 kHz ± 0.5 dB
Sensitivity 0.30 mV (phono)
Overload 150 mV (phono)
S/N 70 dB (phono); 80 dB (aux)
Phono EQ 20 Hz to 20 kHz ± 0.5 dB
Bass ±14 dB at 100 Hz
Treble ±14 dB at 10 kHz
High filter 6 dB/octave above 9 kHz
Low filter 6 dB/octave below 40 Hz, 18 dB/octave below 15 Hz
Features All electronic receiver with computer control; one knob controls all variable functions — volume, balance, bass, midrange, treble, tuning, 4-digit frequency readout counts actual tuner oscillator frequency against crystal clock, also available as TA-150 "receiver" at $995 without power amplifier but with headphone amplifier

Models also available
AX-7700V, $300, AX-7300, $210

High Fidelity's Buying Guide to Stereo Components
Beomaster 4400

- **Price**: $850
- **Dimensions**: 34H x 221/2W x 11D
- **Weight**: 22 lbs.
- **Quieting**: 18 dB/38 dB
- **S/N**: 70 dB/67 dB
- **Response**: 30 Hz to 15 kHz, ± 15 dB/same
- **THD**: 0.7%/0.7%
- **Separation**: 40 dB (1 kHz)
- **Subcarrier**: 100 dB
- **Capture**: 4 dB
- **Selectivity**: 58 dB
- **Power**: 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD (4-ohm load)
- **IM**: 0.1% at 70 watts
- **Response**: 20 Hz to 35 kHz, ± 15 dB
- **Sensitivity**: 2.2 mV (phono); 200 mV (high level)
- **Overload**: 80 mV (phono); 65 mV (aux) (un-weighted re 70 watts)
- **Phono EQ**: N/A
- **Bass**: ± 12 dB at 40 Hz
- **Treble**: ± 12 dB at 12.5 kHz
- **High filter**: 12 dB/octave above 7 kHz
- **Low filter**: 12 dB/octave below 60 Hz
- **Features**: Six preset FM stations; varactor tuning; overload indicator; ambience recovery for rear speakers

**Models also available**

- Beomaster 2400, $650
- Beomaster 1900, $550

**BOSE**

Bose Corp.
100 Mountain Rd.
Framingham, Mass. 01701

1980 Edition
Response 2 mV (phone); 150 mV (high level)
Overload 220 mV (phone)
S/N 78 dB (phone); 75 dB (tuner); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass ±12 dB at 50 Hz/250 Hz/1 kHz
Treble ±12 dB at 4.5 kHz/15 kHz (5-band graphic equalizer)

Low filter 18 dB/octave
Features "Panel Logic" 12-function control system; power meters; Dolby de-emphasis switch; FM multiplex

RS-1058
Price $550
Dimensions 6'H x 20 3/4" W x 14 3/4" D
Weight 32 lb. 4 oz.
Quieting 13.2 dB/35.9 dB
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ±1 dB/same
THD 0.1% (0.5%)
Separation 45 dB (1 kHz)
Capture 70 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 90 watts
Response 20 Hz to 20 kHz, ±0.5 dB
Sensitivity 2 mV (phone); 150 mV (high level)
Overload 180 mV (phone)
S/N 76 dB (phone); 90 dB (aux) (A-weighted to re 90 watts)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass ±10 dB at 100 Hz
Treble ±10 dB at 1 kHz
High filter 6 dB/octave above 5 kHz; -6 dB
Low filter 6 dB/octave below 60 Hz; -6 dB
Features Midrange control

RS-2004
Price $429.95
Dimensions 5'H x 19 1/4" W x 14" D
Weight 28 lb. 5 oz.
Quieting 14.2 dB/36.8 dB
S/N 70 dB/66 dB
Response 20 Hz to 15 kHz, ±0.5 dB/same
THD 0.5% (0.2%)
Separation 45 dB (1 kHz); 36 dB at 100 Hz & 1 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 68 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.1% at 45 watts
Response 20 Hz to 20 kHz, ±0.5 dB
Sensitivity 2 mV (phone); 150 mV (high level)
Overload 150 mV (phone)
S/N 76 dB (phone); 75 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB
Bass ±10 dB at 50 Hz/250 Hz/1 kHz
Treble ±10 dB at 4.5 kHz/15 kHz (5-band graphic equalizer)
Features Equalizer defeat switch; "Panel Logic" control system; Dolby de-emphasis; Darling- ton power-pack output stage

RS-2002
Price $279.95
Dimensions 5'H x 19 1/4" W x 14" D
Weight 17 lb. 14 oz.
Quieting 14.2 dB/36.8 dB
S/N 70 dB/66 dB
Response 20 Hz to 15 kHz, ±0.5 dB
THD 0.1% (1 kHz)
Separation 45 dB (1 kHz); 36 dB (10 kHz)
Subcarrier 65/70 dB
Capture 1 dB
Selectivity 68 dB
Power 20 watts (13.2 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD

IM 0.06% at 20 watts
Sensitivity 2 mV (phone); 150 mV (high level)
Overload 140 mV (phone)
S/N 76 dB (phone); 70 dB (tuner); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±0.5 dB

Models also available
RS-2010, $700; RS-2007, $550; RS-2003, $379.95; RS-1035A, $299.95; MC-2500, $229.95

HARMAN KARDON
Harman Kardon
55 Ames Court
Plainview, N.Y. 11803

hk-670
Price $569
Dimensions 6'H x 18 3/4" W x 14 D
Weight 36 lb.
S/N 75 dB
Response DC Hz to 60 kHz, ±1.5 dB/20 Hz to 15 kHz, ±0.5 dB
THD 0.09% (1 kHz)
Separation 50 dB, DC to 1 kHz
Capture 1.3 dB
Selectivity 75 dB
Power 60 watts (17.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.06% at 60 watts
Response 1 Hz to 140 kHz, ±1/4 dB
Sensitivity 2.2 mV (phone); 130 mV (high level)
Overload 225 mV (phone)
S/N 88 dB (phone); 100 dB (tuner); 100 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±5 dB
Bass ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 18 Hz
Features Patented signal strength, multipath, quieting (SSQ®) meter; electronic speaker protection; DC coupled; tone defeat; 2 tape copy and tape monitor positions; 25-microsecond de-emphasis for Dolby broadcasts, infrasonic filter

hk-550
Price $399
Dimensions 5'H x 16 1/4" W x 12 1/4 D
Weight 25 lb.
S/N 75 db
Response DC to 60 kHz, ±1.5 dB/20 Hz to 15 kHz, ±0.5 dB
THD 0.1% (1 kHz)
Separation 45 dB, DC to 1 kHz
Capture 1.3 dB
Selectivity 70 dB
Power 64 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.06% at 40 watts
Response 1 Hz to 120 kHz, ±1/4 dB
Sensitivity 2.2 mV (phone); 175 mV (high lev)
Overload 120 mV (phone)
S/N 88 dB (phone); 100 dB (tuner); 100 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±1 dB
Bass ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
Low filter 12 dB/octave below 18 Hz
Features Circuit breaker speaker protection; DC coupled; tone defeat; 2 tape monitor positions; switchable FM mute; 4-stage phono preamp

Models also available
hk-450, $319; hk-340, $219

HEATHKIT
Heath Co.
Benton Harbor, Mich. 49022

High Fidelity's Buying Guide to Stereo Components

FISHER
Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

RS-2015
Price $900
Dimensions 7 2/4" x 23W x 17 1/4 D
Weight 52 lbs.
Queting 13.2 dB/35.9 dB
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ±0.5 dB/same
THD 0.1% (0.2%)
Separation 50 dB (1 kHz); 40 dB at 100 Hz & 1 kHz
Subcarrier 70 dB
Capture 0.8 db
Selectivity 80 dB
Power 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.05% at 150 watts
Response 20 Hz to 20 kHz, ±0.5 dB

Models also available
MK III, $159.99; MK I, $109.99

FISHER
### AR-1515
- **Price**: $600 (kit)
- **Dimensions**: 6 3/16" x 21 3/8" x 15 3/4" D
- **Weight**: 36 lbs.
- **Quieting**: 10.3 dB (mono, 30 dB)
- **S/N**: 70 dB (mono)
- **Response**: 20 Hz to 15 kHz, +1 dB (mono)
- **THD**: 0.3% / 0.35%
- **Separation**: 40 dB (mildband)
- **Subcarrier**: 60 dB
- **Capture**: 1 dB
- **Selectivity**: 100 dB
- **Power**: 70 watts (18.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
- **IM**: 0.08% at 70 watts
- **Response**: 8 Hz to 45 kHz, +0.5 dB
- **Sensitivity**: 0.24 mV (phono), 24 mV (high level)
- **Overload**: 100 mV (phono)
- **S/N**: 65 dB (phono) (re 2 mV input), 80 dB (aux) (re 200 mV input)
- **Features**: Digital readout; Dolby FM module accessory ($40)

### AR-1429
- **Price**: $350 (kit)
- **Dimensions**: 4 5/8" x 20 3/4" x 13 1/2" D
- **Weight**: 32 lbs.
- **S/N**: 65 dB
- **Response**: 20 Hz to 15 kHz, +1 dB
- **THD**: 0.1% (20 Hz) / 0.1% (20 kHz)
- **Separation**: 40 dB (1 kHz)
- **Capture**: 1 dB
- **Selectivity**: 65 dB
- **Power**: 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
- **Response**: 5 Hz to 45 kHz, +1 dB
- **Sensitivity**: 2 mV (phono), 200 mV (high level)
- **Overload**: 90 mV (phono)
- **S/N**: 65 dB (phono); 75 dB (tuner)
- **Phono EQ**: 30 Hz to 20 kHz, +1 dB
- **Features**: Optional Dolby module ($40)

### Models also available
AR-1219, $200 (kit)

### HITACHI
Hitachi Sales Corp. of America
401 W. Artesia Blvd.
Compton, Calif. 90220

### SR-804
- **Price**: $440.95
- **Dimensions**: 5 3/4" x 18 1/2" W x 14 1/4" D
- **Weight**: 22 lbs. 5 oz.
- **Quieting**: 17 dB / 37 dB
- **S/N**: 74 dB / 68 dB
- **Response**: 30 Hz to 15 kHz, +1 dB (mono)
- **THD**: 0.2% / 0.3% (100 Hz)
- **Separation**: 45 dB (1 kHz)
- **Subcarrier**: 50 dB
- **Capture**: 1 dB
- **Selectivity**: 60 dB
- **Power**: 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD
- **IM**: 0.05% at 25 watts
- **Response**: 10 Hz to 40 kHz, +0.5 dB
- **Sensitivity**: 0.35 mV (phono), 21 mV (high level)
- **Overload**: S/N 75 dB (phono), 87 dB (aux) (A-weighted)
- **Phono EQ**: 30 Hz to 15 kHz, +0.5 dB
- **Gain**: +10 dB at 10 kHz
- **Treble**: +10 dB at 10 kHz
- **High filter**: 6 dB/octave above 10 kHz
- **Low filter**: 6 dB/octave below 50 Hz
- **Features**: Class G, midrange control

### Models also available
SR-904, $630, SR-504, $280; SR-2010, $200

### JVC
JVC America, Inc.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

### JR-S501
- **Price**: $730
- **Dimensions**: 5 1/4" x 22 1/2" x 17 D
- **Weight**: 46 lbs. 3 oz.
- **Quieting**: 14 dB / 37.2 dB
- **S/N**: 70 dB / 70 dB
- **Response**: 20 Hz to 15 kHz, +0.3, -0.8 dB / 20 Hz to 15 kHz, +0.3, -0.8 dB
- **THD**: 0.03% / 0.1% (1 kHz)
- **Separation**: 45 dB, 50 Hz to 10 kHz
- **Capture**: 1 dB
- **Selectivity**: 60 dB
- **Power**: 130 mW (phono)
- **S/N**: 75 dB (phono); 92 dB (tape)
- **Bass**: +10 dB at 100 Hz
- **Treble**: +8 dB at 10 kHz
- **Low filter**: 15 dB/octave below 10 Hz
- **Features**: IC/PET low-distortion circuitry, LED tuning/power level metering

### Models also available
JR-S401, $630, JR-S301, $500, JR-S201, $390

### JVC
JVC America, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

### KENWOOD
Kenwood Electronics, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

### Models also available
JR-S401, $630, JR-S301, $500; JR-S201, $390

### Sensitivity
- 2.5 mV (phono); 250 mV (high level)
- Overload: 250 mV (phono)
- S/N: 75 dB (phono); 95 dB (tuner); 95 dB (aux)
- Phono EQ: 20 Hz to 20 kHz, +0.2 dB
- Features: DC power amp; 2 power meters; 5-position SEA equalizer; FM pilot signal canceller

### KR-9050
- **Price**: $1,150
- **Dimensions**: 63 1/2" H x 23 1/2" W x 17 1/2" D
- **Weight**: 52 lbs. 14 oz.
- **Quieting**: 14 dB / 36.1 dB
- **S/N**: 83 dB / 76 dB
- **Response**: 20 Hz to 15 kHz, +0.5 dB
- **THD**: 0.07% / 0.08%
- **Separation**: 40 dB, 50 Hz to 10 Hz
- **Capture**: 1 dB
- **Selectivity**: 60 dB

1980 Edition
**Moderator 50-75**

Price $1,000
Dimensions 6 1/4 H x 19 1/4 W x 12 1/4 D
Weight 29 lbs.
Quieting 13 dB/35 dB
Response 20 Hz to 16 kHz, ±3 dB
THD 15% (1 kHz)/2% (1 kHz)
Separation 40 dB, 20 Hz to 12 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 90 dB
Power 45 watts (16.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.25% THD
IM 2.0 Hz to 20 kHz, ±3 dB
Sensitivity 1.5 mV (phone); 36 mV (high level)
Overload 170/170 mV (phone); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±12 dB at 20 Hz
Treble ±12 dB at 20 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 80 Hz
Features Phono blend; two phono inputs; 5 FM pre-tuning keys; tape copy; midrange control; ±6 dB at 1 kHz; presence control; tone defeat; ambience for rear speakers; audio out jacks; decoder out; preamp m; main amp out; connects 3 speaker pairs

**LAFAYETTE**

**Lafayette Radio Electronics Corp.**

111 Jericho Turnpike
Syosset, N.Y. 11791

**LR-120DB**

Price $549.99
Dimensions 7 x 21 1/2 W x 17 1/4 D
Weight 42 lbs.
Quieting 14.1 dB/36.8 dB
Response 30 Hz to 15 kHz, ±0.5 dB (mono)
THD 0.1% (3 dB + 6 kHz)
Separation 45 dB (1 kHz)
Capture 5 1/2 dB
Sensitivity 80 dB
Power 120 watts (20.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.9% THD
IM 120 Hz
Response 15 Hz to 40 kHz, ±1 dB
Sensitivity 2.5 mV (phone); 5 mV (high level)
Overload 150 mV (phone)
S/N 70 dB (phone); 70 dB (tuner); 90 dB (aux)
Bass ±12 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 3 dB/octave above 12 kHz
Low filter 3 dB/octave below 15 Hz
Features Adjustable FM muting; Dolby FM; frequency tuneners for bass and midrange controls; dual power meters; dual tuning meters; connections for 3 sets of speaker systems; 3-position phono sensitivity switch; dual tape monitors; two headphone jacks; hi-blend; dual range loudness contour; mic mixing; overload protection

**Models also available**


**LUX**

Lux Audio of America, Ltd.
160 Dupont St.
Plainview, N.Y. 11803

**R-1120**

Price $995
Dimensions 7 x 19 1/4 W x 15 1/2 D
Weight 47 lbs.
Quieting 14.1 dB/36.8 dB
S/N 74 dB/70 dB
Response 30 Hz to 15 kHz, ±1 dB
THD 0.08%/0.1% (1 kHz)
Separation 42 dB, 100 Hz to 6 kHz
Subcarrier 70 dB
Capture 1.3 dB
Selectivity 80 dB
Power 120 watts (20.75 dbW) continuous from 20 Hz to 20 kHz at no more than 0.5% THD
Sensitivity 0.26 mV (phone); 20 mV (high level)
Overload 180 mV (phone)
S/N 65 dB (phone); 67 dB (tuner); 80 dB (aux)
Bass ±12 dB at 100 Hz
Treble ±10 dB at 10 kHz
High filter 12 dB/octave above 7 kHz
Low filter 12 dB/octave below 40 Hz
Features Built-in FM Dolby; switchable phono sensitivity (figures given for high); two choices of bass and treble turnover; two choices of high- and low-filter cutoffs, dual tuning meters; connections for 3 sets of speakers; dual tape monitors; triple tone controls; audio and FM mute; two headphone jacks; overload protection

**KIRKSAETER**

Saga Hi-Fi, Inc.
398 South Pickett St.
Alexandria, Va. 22304

**KR-7050**

Price $660
Dimensions 65 H x 21 1/4 W x 16 3/16 D
Quieting 16 1/2 db/37.9 db
S/N 83 dB/75 dB
Response 30 Hz to 15 kHz, ±5, ±1 dB
THD 0.8%/0.09%
Separation 40 dB, 60 Hz to 10 kHz
Subcarrier 70 dB
Capture 1 db
Selectivity 60 db
Power 80 watts (19.25 dBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD
IM 0.07% at 80 watts
Sensitivity 2.5 mV (phone); 200 mV (high level)
Overload 200 mV (phone)
S/N 91 db (phone); 110 db (tuner); 110 db (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 db
Bass ±12 db at 100 Hz
Treble ±12 db at 10 kHz
High filter 6 db/octave above 5 kHz
Low filter 6 db/octave below 18 Hz
Features High-speed DC amplifier

**KR-4010**

Price $330
Dimensions 5 1/2 x 32 x 18 1/2 x 14 3/2 D
Weight 18 lbs. 5 oz
Quieting 16 1/2 db/37.9 db
S/N 76 db/70 db
Response 30 Hz to 15 kHz, ±0.5, ±2 db
THD 0.06%/0.05%
Separation 40 db, 100 Hz to 10 kHz
Subcarrier 50 db
Capture 1 db
Selectivity 50 db
Power 35 watts (15.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.02% at 35 watts
Response 5 Hz to 17 kHz, ±0.5, ±3 dB
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 150 mV (phone)
S/N 86 db (phone); 104 db (tuner); 104 db (aux)
Phono EQ 20 Hz to 20 kHz, ±0.3 db
Bass ±8 db at 100 Hz
Treble ±8 db at 10 kHz
High filter 6 db/octave above 3 kHz
Features DC amplifier

**Models also available**

Harman Kardon HK-670

Kenwood KR-9050

Mitsubishi DA-C20

NAD 7060

JVC R-S7

**Quieting**

Price peak indicators; Features Low filter

High filter 12 dB/octave above 7 kHz

Low filter 12 dB/octave below 15 Hz or 70 Hz

Features Dual turnover tone controls; LED peak indicators; electrostatic speaker outputs; closed locked-loop tuning

**R-1050**

**Price** $995

**Dimensions** 7¼H x 19¼W x 14D

**Weight** 34 lbs.

** Quieting** 14.1/36.8 dBf

**S/N** 74 dB/70 dB

**Response** 30 Hz to 15 kHz, ± 1 dB

**THD** 0.1%/0.2% (1 kHz)

**Separation** 40 dB, 100 Hz to 10 kHz

**Subcarrier** 60 dB

**Capture** 1.3 dB

**Selectivity** 70 dB

**Power** 55 watts (17.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

**IM** 0.05% at 55 watts

**Sensitivity** 0.04 MV (phone); 20 mV (high level)

**Overload** 150 mV (phone)

**S/N** 66 dB (phone); 86 dB (aux) (un-weighted re 55 watts)

**Phono EQ** +0.3 dB

**Bass** ±10 dB at 100 Hz

**Treble** ±10 dB at 10 kHz

**High filter** 6 dB/octave above 7 kHz

**Low filter** 6 dB/octave below 70 Hz

**Features** LED peak indicators; phase-linear IF

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**MRANTZ**

Marantz Co., Inc.

20525 Nordhoff St.

Chatsworth, Calif. 91311

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**2600**

**Price** $1,500

**Dimensions** 7H x 19¼W x 17¼D

**Weight** 60 lbs. 5 oz.

**Quieting** 12.1 dB/33.2 dBf

**S/N** 82 dB/75 dB

**Response** 30 Hz to 15 kHz, +0.2 dB, -1 dB/same

**THD** 0.1%/0.2% (1 kHz)

**Separation** 50 dB (1 kHz)

**Subcarrier** 75 dB

**Capture** 1 dB

**Selectivity** 85 dB

**Power** 400 watts (26 dBW) continuous from 20 Hz to 20 kHz at no more than 0.005% THD at 4 ohms

**IM** 0.05% at 400 watts

**Response** 10 Hz to 60 kHz, ± 1 dB

**Sensitivity** 1.8 mV (phone); 180 mV (high level)

**Overload** 200 mV (phone)

**S/N** 83 dB (phone); 98 dB (aux) (A-weighted re 400 watts)

**Phono EQ** +0.3 dB

**Bass** ±10 dB at 100 Hz

**Treble** ±10 dB at 10 kHz

**High filter** 6 dB/octave above 7 kHz

**Low filter** 6 dB/octave below 70 Hz

**Features** LED peak indicators; phase-linear IF

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**R-1040**

**Price** $495

**Dimensions** 6½H x 19W x 14D

**Weight** 30 lbs. 13 oz.

**Quieting** 18.2 dB/39.8 dBf

**S/N** 74 dB/70 dB

**Response** 30 Hz to 15 kHz, ± 0.75 dB

**THD** 0.2%/0.3% (1 kHz)

**Separation** 40 dB, 100 Hz to 10 kHz

**Subcarrier** 60 dB

**Capture** 1.2 dB

**Selectivity** 55 dB

**Power** 40 watts (16 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

**IM** 0.05% at 40 watts

**Sensitivity** 0.04 mV (phone); 24 mV (high level)

**Overload** 150 mV (phone)

**S/N** 69 dB (phone); 89 dB (aux) (un-weighted re 40 watts)

**Phono EQ** +0.3 dB

**Bass** ±10 dB at 100 Hz

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**2330B**

**Price** $800

**Dimensions** 5½H x 19¾W x 15¼D

**Weight** 49 lbs. 1 oz.

**Quieting** 13.2 dB/36 dBf

**S/N** 78 dB/70 dB

**Response** 30 Hz to 15 kHz, ± 0.2 dB, -1 dB/30 Hz to 15 kHz, ± 15 dB

**THD** 0.1%/0.25% (1 kHz)

**Separation** 50 dB (1 kHz)

**Subcarrier** 70 dB

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**Models also available**

R-1070 Receiver, $795; R-1030 Receiver, $395

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**SR-6000**

**Price** $550

**Dimensions** 5½H x 18¾W x 13¾D

**Weight** 21 lbs. 12 oz.

**Quieting** 13.2 dB/36.1 dBf

**S/N** 80 dB/72 dB

**Response** 30 Hz to 15 kHz, +0.5, -1 dB/same

**THD** 0.15% (1 kHz)/0.2% (1 kHz)

**Separation** 45 dB (1 kHz)

**Subcarrier** 65 dB

**Capture** 1 dB

**Selectivity** 65 dB

**Power** 88 watts (19 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD

**IM** 0.05% at 88 watts

**Response** 10 Hz to 70 kHz, ± 0.1 dB

**Sensitivity** 2.7 mV (phone); 160 mV (high level)

**Overload** 225 mV (phone)

**S/N** 90 dB (phone); 98 dB (aux)

**Phono EQ** 20 Hz to 20 kHz, ± 0.2 dB

**Bass** ±10 dB at 100 Hz

**Treble** ±10 dB at 10 kHz

**High filter** 18 dB/octave above 9 kHz

**Low filter** 18 dB/octave below 15 Hz

**Features** Two-inch oscilloscope; midrange control; switchable bass and treble turnover; front-panel dubbed jacks; tape-to-tape duplicating while listening to independent source; optional Dolby module; quartz-locked tuning

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**SR-1000**

**Price** $285

**Dimensions** 5½H x 18¾W x 12¾D

**Weight** 14 lbs. 5 oz.

**Quieting** 14.9 dB/37.7 dBf

**S/N** 74 dB/68 dB

**Response** 30 Hz to 15 kHz, +0.5, -1 dB/same

**THD** 0.15% (1 kHz)/0.3% (1 kHz)

**Separation** 45 dB (1 kHz)

**Subcarrier** 60 dB

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1980 Edition
Models also available
2385 Receiver, $1,000; SR-4000, $400; SR-2000, $325

MCS® SERIES
J.C. Penney
1301 Ave. of the Americas
New York, N.Y. 10019

3125
Price $900
Dimensions 8 1/2 x 19/16 x 16/16 x 17/16
Weight 65 lbs.
Quieting 3/16 x 12/15 x 15/16 x 15/16
S/N 75 dB/70 dB
Response 20 Hz to 15 kHz, ± 0.5 dB
THD 0.02% (1 kHz), 0.03% (1 kHz)
Separation 35 dB, 100 Hz to 10 Hz
Capture 1 dB
Selectivity 80 dB
Power 125 watts (21 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 0.02% at 130 watts
Response 30 Hz to 20 kHz, ± 0.3 dB
Sensitivity 2.7 mv (phono)
Overload 200 mv (phono)
S/N 78 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 18 kHz, ± 0.75 dB
Bass + 0.5 dB at 60 Hz
Trebles + 1 dB at 1 kHz
Features Digital FM frequency readout; LED wattage power meters; mc mixing volume control; graphic equalizer with LED readout; touch sensitivity tuning dial; FM Dolby adapter; FM mute; MPX FM filter; clipping indicator; record level check power protection circuit

Models also available $325, $590, $925, $300

MITSUBISHI
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

DA-C20 Tuner/Preamplifier
Price $510
Dimensions 6 x 11 x 20/16 x 11/12
Weight 16 lbs.
Quieting 19.2 dB/39.2 dB
S/N 80 dB/75 dB
Response 30 Hz to 15 kHz, ± 1 dB
THD 0.05%/0.08% (1 kHz)
Separation 40 dB (10 kHz)
Subcarrier 70 dB
Capture 0.8 dB
Selectivity 75 dB/45 dB
Response 10 Hz to 100 kHz, ± 0.5 dB
Sensitivity 2.3 mV (phono); 150 mV (high level)
Overload 290 mv (phono)
S/N 84 db (phono); 110 db (tuner); 110 db (aux) (rated input)
Phono EQ 20 Hz to 20 kHz, ± 0.2 dB
Bass ± 0.5 dB at 100 Hz
Trebles ± 0.1 dB at 10 kHz
Features Two-way tape dubbing, dual monaural construction, built-in moving coil head amp; can be docked either to DA-10DC, ADA-70/1 or ADA-150DC power amplifiers; selectivity switch; tone defeat

Models also available
DA-C7 Tuner/Preamplifier, $360

NAD
NAD (U.S.A.), Inc.
New Acoustic Dimension
MacKintosh Lane
P.O. Box 529
Lincoln, Mass. 01773

NAD-7080
Price $610
Dimensions 5 9/10 x 19 3/10 x 15 3/5
Weight 42 lbs.
Quieting 4.8 db/36.1 db
S/N 74 db/70 db
Response 30 Hz to 15 kHz, ± 0.5 dB
THD 0.2% (1 kHz), 0.3% (1 kHz)
Separation 30 db, 30 Hz to 15 kHz
Subcarrier 70 dB
Capture 1 dB
Selectivity 70 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 100 watts
Response 5 Hz to 50 kHz, ± 0.3 dB
Sensitivity 0.25 mV (phono); 20 mV (high level)
Overload 2 mV (phono)
S/N 90 db (phono); 74 db (tuner); 95 db (aux)
Phono EQ RIAA, ± 0.3 dB
Bass ± 0.5 dB at 20 kHz
Trelles ± 0.5 dB at 10 kHz
High filter 12 dB/octave above 8 kHz
Low filter 12 dB/octave below 20 Hz
Features Two-way tape dubbing; independent selection of bass and treble turnover frequencies; high-speed output relay for speaker protection

Models also available
NAD-7045, $415; NAD-7030, $320

NIKAMICHI
Nikamichi USA Corp.
1101 Colorado Ave.
Santa Monica, Calif. 90401

730
Price $1,200
Dimensions 3/4 x 19/16 x 15/16
Weight 38 lbs.
Quieting 18.3 dB/38.3 dB
S/N 75 db/68 db
Response 30 Hz to 15 kHz, ± 1 db
Thre 0.1 db/0.15 db (1 kHz)
Separation 45 db (1 kHz)
Subcarrier 70 db
Capture 1.5 db
Selectivity 70 db
Power 100 watts (20.25 dBW) continuous from 8 ohms from 5 Hz to 20 kHz at no more than 0.004% at 100 watts
IM 0.004% at 100 watts
Response 10 Hz to 30 kHz, 0.3 db
Sensitivity 2 mV (phono); 100 mV (high level)
Overload 120 mV (phono)
S/N 83 db (phono); 94 db (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.3 dB
Bass ± 0.5 dB at 20 Hz
Trebles ± 0.5 dB at 20 kHz
Features Motorized auto-tuning with four preset FM stations; touch-sensitive controls; optional wireless remote control available at $190

630 Tuner/Preamplifier
Price $730
Dimensions 7 1/2 x 16 x 10/100
Weight 16 lbs.
Quieting 19 dB/39 dB
S/N 70 db/68 db
Response 30 Hz to 15 kHz, ± 0.3 db/same
THD 0.6% at 0.8% (1 kHz)
Separation 50 db (1 kHz)
Subcarrier 75 db
Capture 1 dB
Selectivity 80 db
IM 0.004%
Response 20 Hz to 50 kHz, ± 0.75 db
Sensitivity 1 mV (phono); 100 mV (high level) (1V out)
Overload 250 mV (phono)
S/N 80 db (phono); (A-weighted re 1 mV input); 102 db (aux) (A-weighted re 100 mV input)
Phono EQ 20 Hz to 20 kHz, ± 0.3 dB
Bass ± 0.5 db at 20 kHz
Trebles ± 0.1 db at 20 kHz
Features Built-in Dolby; selectable IF bandwidth; linear-phase filter; selectable phono sensitivity

Models also available
530, $850

NIKKO
Nikko Electric Corp.
of America
16270 Raymer St.
Van Nuys, Calif. 91406

High Fidelity's Buying Guide to Stereo Components
NR-1219

Price $660
Dimensions 7H x 22W x 15D
Weight 38 lbs. 8 oz.
S/N 13.5 dB
Response 50 Hz to 15 kHz, +0.2, -0.8 dB
THD 0.07% (1 kHz)/0.15% (1 kHz)
Separation 35 dB, 100 Hz to 10 kHz
Subcarrier 65 dB
Capture 1.5 dB
Selectivity 75 dB
Power 100 watts (20 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
IM 0.03% at 100 watts
Response 10 Hz to 50 kHz, +0, -1 dB (aux; tape)
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 250 mV (phono)
S/N 84 dB (phono); 95 dB (tape); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ±0.3
Bass ± 10 dB at 70 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 10 kHz
Low filter 12 dB/octave below 20 Hz
Features Touch -tuning; 12 dB/octave below 30 Hz; 6 dB/ octave above 10 kHz

NR-519

Price $250
Dimensions 5 3/4H x 17 4/5W x 11D
Weight 15 lbs. 14 oz.
Quieting 15.2 dB
S/N 70 dB/60 dB
Response 50 Hz to 13 kHz, +0.5, -1 dB
THD 0.2% (1 kHz)/0.3% (1 kHz)
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 43 dB
Capture 1.8 dB
Selectivity 55 dB
Power 20 watts (13 DBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD
IM 0.08% at 20 watts
Response 20 Hz to 20 kHz, ± 1.0 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 130 mV (phono)
S/N 80 dB (phono); 90 dB (tape); 90 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.05 dB
Bass ± 10 dB at 70 Hz
Treble ± 10 dB at 10 kHz
Low filter 6 dB/octave below 20 Hz
Features Infrasonic filter

Models also available
NR-1019, $540; NR-819, $370; NR-719, $320

NYTECH AUDIO LTD.
Import Audio Ltd.
13430 Clayton Rd.
St. Louis, Mo. 63131

CTA-252XDII

Price $1,000
Dimensions 4 1/4 x 3 1/2 x 8 in.
Weight 10 lbs.
S/N 60 dB
Response 30 Hz to 15 kHz
THD 0.7% at 100% modulation; 0.2% at 10% modulation (stereo)
Selectivity 60 dB
Power 25 watts (14 DBW) at no more than 0.1% THD
Sensitivity 2 mV (MM); 150 mV (MC); 100 mV (high level)

S/N 65 dB (MM); 60 dB (MC); 75 dB (tuner); 90 dB (aux)
Features Four FM preset; moving-coil phono input standard

CTP-102 Tuner/Preamplifier

Price $700
Dimensions 4”H x 8 3/4”W x 13”D
Weight 6 lbs. 10 oz.
THD 0.02%
Overload 20 mV (MM); 150 mV (MC)
Features One-way tape dubbing; output variable up to 2V, may be purchased with either moving-magnet or moving-coil phono input

ONKYO
Onkyo U.S.A. Corp.
42-07 20th Ave.
Long Island City, N.Y. 11105

TX-8500 Mk II

Price $1,000
Dimensions 7 1/4H x 21 1/2W x 18 1/4D
Weight 63 lbs. 13 oz.
Quieting 14.7 dB/36 dB
S/N 70 dB/65 dB
Response 30 Hz to 30 kHz, ± 1.5 dB (mono)
THD 0.7% /0.3% (1 kHz)
Separation 35 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.3 dB
Selectivity 70 dB
Power 160 watts (22 DBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
IM 1 Hz to 80 kHz, ± 1 dB
Sensitivity 2.5 mV (phono)
Overload 250 mV (phono)
S/N 80 dB (phono); 95 dB (aux)
Phono EQ 30 Hz to 15 kHz, ± 0.2 dB
Bass ± 12 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 100 Hz
Features Quartz-locked; DC AMP; digital FM readout; 7 presets for FM; dual power supply; Dolby FM, Accutat control

TX-4500 Mk II

Price $460
Dimensions 6 1/4H x 21 1/2W x 15H/D
Weight 33 lbs.
Quieting 17.2 dB/37.2 dB
S/N 70 dB/65 dB
Response 30 Hz to 15 kHz, ± 1.75 dB (mono)
THD 0.2%/0.4%
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 70 dB
Power 60 watts (17.75 DBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
IM 0.3% at 60 watts
Response 15 Hz to 30 kHz, ± 1 dB
THD 0.2% (1 kHz)/0.4% (1 kHz)
Sensitivity 2.5 mV (phono)
Overload 200 mV (phono)
S/N 86 dB (phono); 95 dB (aux)
Bass ± 12 dB at 100 kHz
Treble ± 10 dB at 10 kHz
High filter 12 dB/octave above 6 kHz
Low filter 12 dB/octave below 50 Hz
Features Quartz-locked, full complimentary output, dual-gate MOSFET front end, multiple protection circuitry

Models also available
TX-6500 Mk II, $560; TX-2500 Mk II, $320; TX-1500 Mk II, $215

OPTIONICA
Sharp Electronics Corp.
10 Keystone Place
Paramus, N.J. 07652

SA-5901

Price $800
Dimensions 7 1/4H x 21 3/5W x 16D
Weight 46 lbs. 6 oz.
Quieting 13.0 dB/35.2 dB
S/N 84 dB/75 dB
Response 30 Hz to 15 kHz, ± 1.5 dB/30 Hz to 15 kHz, ± 1.5 dB
THD 0.1% (1 kHz)/0.3% (1 kHz)
Separation 35 dB (50 Hz to 10 kHz)
Subcarrier 51 dB
Capture 1.2 dB
Selectivity 85 dB
Power 125 watts (21 DBW) continuous from 20 Hz to 20 kHz at no more than 0.02% THD
S/N 0.02% at 125 watts
Response 10 Hz to 55 kHz, ± 1.5 dB
Sensitivity 2.5 mV (phono); 150 mV (high level)
Overload 300 mV (phono)
S/N 80 dB (phono); 100 dB (aux)
Phono EQ 30 Hz to 20 kHz, ± 0.2 dB
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
High filter 6 dB/octave above 7 kHz
Low filter 12 dB/octave below 30 Hz
Features Delta power; DC circuitry, 5-way power protection; own lock tuning, 2-way tape dubbing; air check calibrator, dual phono input; 2 tone tuner control; rec out; Selector

SA-5101

Price $280
Dimensions 5 1/3H x 17 1/3W x 11 1/3D
Weight 14 lbs.
Quieting 16.2 dB/35.2 dB
S/N 73 dB/66 dB
Response 35 Hz to 15 kHz, ± 3 dB/35 Hz to 15 kHz, ± 3 dB
THD 0.2% (1 kHz)/0.4% (1 kHz)
Separation 31 dB, 50 Hz to 10 kHz
Subcarrier 41 dB
Capture 1.2 dB
Selectivity 60 dB
Power 25 watts (14 DBW) continuous from 20 Hz to 20 kHz at no more than 0.04% THD
IM 0.08% at 25 watts
Sensitivity 2.5 mV (phono), 150 mV (high level)
Overload 150 mV (phono)
S/N 73 dB/66 dB
Phono EQ 30 Hz to 20 kHz
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Features Air check calibrator; tape dubbing; LED tuning meter, LED signal strength meter, loudness control

Models also available
SA-5602, $620; SA-5402, $470; SA-5202, $360

PHILIPS
Philips High Fidelity Laboratories
1700 Magnavox Way
Fort Wayne, Ind. 46804

AH-903

Price $749.95
Power 125 watts (21 DBW) continuous
### SX-1080
- **Price**: $750
- **Dimensions**: 7 x 20 1/4"W x 15 1/4"D
- **Weight**: 47 lbs.
- **Quieting**: 14.2 dB/36 dB
- **Response**: 30 Hz to 15 kHz, ±0.5 dB (mono)
- **THD**: 0.1%/0.15% (1 kHz)
- **IM**: 30 dB, 30 Hz to 15 kHz
- **Capture**: 1 dB
- **Selectivity**: 80 dB
- **Power**: 120 watts (20.75 dB) continuous from 20 Hz to 20 kHz at no more than 0.6% THD
- **Features**: 1.5 dB

### SX-880
- **Price**: $475
- **Dimensions**: 5 x 11 1/4"W x 12 1/4"D
- **Weight**: 27 lbs.
- **Quieting**: 16.2 dB/37 dB
- **Response**: 30 Hz to 15 kHz, ±0.2, -0.8 dB (mono)
- **THD**: 0.07%/0.15% (1 kHz)
- **Separation**: 35 dB, 30 Hz to 15 kHz
- **Subcarrier**: 55 dB
- **Capture**: 1 dB
- **Selectivity**: 75 dB
- **Power**: 60 watts (17.75 dB) continuous from 20 Hz to 20 kHz at no more than 0.6% THD
- **Features**: 1400 One Tandy Center
- **Price**: $280
- **S/N**: 65 dB (phono); 75 dB (aux)
- **Bass**: ±10 db at 50 Hz
- **Treble**: ±10 db at 10 kHz
- **Sensitivity**: 2.5 mV (phono); 150 mV (high level)
- **Overload**: 200 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.2 dB
- **Response**: ±7 dB at 100 Hz
- **Treb**: ±7 dB at 10 kHz
- **Features**: DC power amp; twin power meters

### SX-680
- **Price**: $300
- **Dimensions**: 5 1/4"H x 17"W x 12"D
- **Weight**: 19 lbs.
- **Quieting**: 10.7 dB/37 dB
- **Response**: 30 Hz to 15 kHz, ±0.2, -1 dB
- **THD**: 0.07%/0.15% (1 kHz)
- **Separation**: 30 dB, 30 Hz to 15 kHz
- **Subcarrier**: 50 dB
- **Capture**: 1 dB
- **Selectivity**: 60 dB
- **Power**: 30 watts (14.75 dB) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
- **Features**: 1400 One Tandy Center
- **Price**: $280
- **S/N**: 65 dB (phono); 75 dB (aux)
- **Bass**: ±10 db at 50 Hz
- **Treble**: ±10 db at 10 kHz
- **Sensitivity**: 2.5 mV (phono); 150 mV (high level)
- **Overload**: 200 mV (phono)
- **Phono EQ**: 20 Hz to 20 kHz, ±0.2 dB
- **Response**: ±7 dB at 100 Hz
- **Treb**: ±7 dB at 10 kHz
- **Features**: DC power amp; twin power meters

### SX-820
- **Price**: $359.95
- **Dimensions**: 6"H x 17"W x 12"D
- **Weight**: 69 lbs.
- **Quieting**: 69 dB (phono); 90 dB (aux)
- **Preamplifier**: 25 DB (aux)
- **Response**: 20 Hz to 50 kHz, ±2 dB
- **Sensitivity**: 2.5 mV (phono)
- **Overload**: 250 mV (phono)
- **S/N**: 69 dB (phono); 90 dB (aux)
- **Bass**: ±10 db at 50 Hz
- **Treble**: ±10 db at 10 kHz
- **Sensitivity**: 2.5 mV (phono)
- **Overload**: 250 mV (phono)
- **Features**: LED digital FM readout; plumb standard dial scale; longthong toggle-type function switches; detented volume control

### STA-2200
- **Price**: $429.95
- **S/N**: 65 dB
- **THD**: 0.1%
- **Separation**: 51 db (1 kHz)
- **Capture**: 1.8 dB
- **Selectivity**: 70 dB
- **Power**: 60 watts (17.75 dB) continuous from 20 Hz to 20 kHz at no more than 0.5% THD
- **IM**: 0.04% at 10 watts
- **Response**: 10 Hz to 50 kHz, ±2 dB
- **Sensitivity**: 2.2 mV (phono)
- **Overload**: 200 mV (phono)
- **S/N**: 65 dB (phono); 75 dB (aux)
- **Bass**: ±10 db at 50 Hz
- **Treble**: ±10 db at 10 kHz
- **Features**: Digital displays; 1000 station memory; clock; Dolby FM

### STA-240
- **Price**: $475
- **S/N**: 69 dB
- **THD**: 0.5%
- **Separation**: 45 dB (1 kHz)
- **Capture**: 1.9 db
- **Selectivity**: 70 dB
- **Power**: 60 watts (17.75 dB) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
- **IM**: 0.07% at 10 watts
- **Response**: 10 Hz to 50 kHz, ±2 dB
- **Sensitivity**: 2.2 mV (phono)
- **Overload**: 200 mV (phono)
- **S/N**: 69 dB (phono); 90 dB (aux)
- **Bass**: ±10 db at 50 Hz
- **Treble**: ±10 db at 10 kHz
- **Features**: Digital displays; 1000 station memory; clock; Dolby FM

### STA-820
- **Price**: $359.95
- **S/N**: 69 dB
- **THD**: 0.5%
- **Separation**: 45 dB (1 kHz)
- **Capture**: 1.9 db
- **Selectivity**: 70 dB
- **Power**: 40 watts (16 dB) continuous from 20 Hz to 20 kHz at no more than 0.06% THD
- **IM**: 0.06% at 28 watts
- **Response**: 10 Hz to 50 kHz, ±2 dB
- **Sensitivity**: 2.2 mV (phono)
- **Overload**: 200 mV (phono)
- **S/N**: 65 dB (phono); 87 dB (aux)

### STA-100
- **Price**: $280
- **Dimensions**: 6"H x 17"W x 12"D
- **Quieting**: 39 db/14 2 dB
- **Response**: 20 Hz to 20 kHz, ±0.5 dB (mono)
- **THD**: 0.5% (1 kHz)/0.1% (1 kHz)
- **Separation**: 38 dB (1 kHz)
- **Subcarrier**: 50 dB
- **Capture**: 1.5 dB
- **Selectivity**: 65 dB
- **Power**: 22 watts (13.5 dB) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
- **Response**: 20 Hz to 20 kHz, ±2 dB
- **Sensitivity**: 2.2 mV (phono); 160 mV (high level)
- **Overload**: 120 mV (phono)
### S/N Power Selectivity Capture Response S/N Quieting Weight Price

- **240R**: Dual LED power display; pilot-cancelling IC
  - **Features**: High filter
  - **Treble**: +10 dB at 10 kHz
  - **Bass**: +10 dB at 100 Hz
  - **S/N**: Overload 72 dB (phone); 70 dB (tuner); 78 dB (aux)
  - **Phono EQ**: 30 Hz to 15 kHz, +0.5 dB
  - **IM**: Response 120 mV (phone)
  - **Response**: 0.05% at 1 watt
  - **Sensitivity**: 2 mV (phone); 220 mV (high level)
  - **Overload**: 18 watts (12.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD
  - **IM**: Response 20 Hz to 30 kHz, ±0.5 dB
  - **Sensitivity**: 2.0 mV (phone); 220 mV (high level)
  - **Power**: 18 watts (12.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD
  - **IM**: Response 0.05% at 1 watt
  - **Selectivity**: 65 dB
  - **Price**: $240
- **RX-2002**: 25-microsecond de-emphasis switch; high-blend switch; FM detector output; 2-position phono sensitivity; mic mixing; 2-position bass turnover; 2-position treble turnover
  - **Features**: FM multipath; 25-microsecond de-emphasis switch; 25 mV (phono); 100 mV (high level)
  - **Overload**: 180 watts (22.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
  - **IM**: Response 5 Hz to 15 kHz, ±0.5 dB
  - **Sensitivity**: 0.26 mV or 0.19 mV (phono); 11.2 mV (high level)
  - **Power**: 18 watts (12.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD
  - **Selectivity**: 65 dB
  - **Price**: $850

### References

**Quadraxflex**

- P.O. Box 2504
- Santa Ana, Calif. 92707

**650 FETR**

- **Price**: $480
- **Dimensions**: 5¼H x 18½W x 14D
- **Weight**: 33 lbs
- **Quieting**: 13.5 dB/35.9 dB
- **S/N**: 72 dB
- **Response**: 30 Hz to 15 kHz, ±0.5 dB
- **THD**: 0.1% (0.15% (1 kHz)
- **Separation**: 44 dB (100 Hz to 10 kHz)
- **Subcarrier**: 55 dB
- **Capture**: 1 dB
- **Selectivity**: 72 dB
- **Power**: 65 watts (18 dBW) continuous from 20 Hz to 20 kHz at no more than 0.1% THD
- **IM**: 0.02% at 1 watt
- **Response**: 5 Hz to 65 kHz, ±0.5 dB
- **Sensitivity**: 2 mV (phone); 160 mV (high level)
- **Overload**: 200 mV (phone)
- **S/N**: 80 dB (phone); 72 dB (tuner); 85 dB (aux)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.25 dB
- **Bass**: ±10 dB at 50 Hz & 100 Hz
- **Treble**: ±10 dB at 10 kHz & 20 kHz
- **High filter**: 6 dB/octave above 7 kHz
- **Features**: MOSFET output; 6 tone tuners; dual LED power display; pilot-canceling IC
- **Price**: $270

**RX-1603**

- **Price**: $1,100
- **Dimensions**: 7¼H x 24W x 19½D
- **Weight**: 72 lbs. 8 oz
- **Quieting**: 11.5 dB/36 dB
- **S/N**: 80 dB/78 dB
- **Response**: 30 Hz to 15 kHz, ±0.5 dB (mono)
- **THD**: 0.1% (0.2% (1 kHz)
- **Separation**: 35 dB, 30 Hz to 15 kHz
- **Subcarrier**: 75 dB
- **Capture**: 1 dB
- **Selectivity**: 80 dB

**RX-2002**

- **Price**: $850
- **Dimensions**: 6¼H x 19¼W x 13¼D
- **Weight**: 19 lbs. 12 oz
- **Quieting**: 14.8 dB/36.8 dB
- **S/N**: 70 dB
- **Response**: 30 Hz to 15 kHz, ±0.5 dB
- **THD**: 0.25% to 0.5% (1 kHz)
- **Separation**: 38 dB (100 Hz to 10 kHz)
- **Subcarrier**: 55 dB
- **Capture**: 2 db
- **Selectivity**: 65 dB
- **Power**: 18 watts (12.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.15% THD
- **IM**: 0.05% at 1 watt
- **Response**: 20 Hz to 30 kHz, ±0.5 dB
- **Sensitivity**: 2.0 mV (phone); 220 mV (high level)
- **Overload**: 120 mV (phone)
- **S/N**: 70 dB (phone); 70 dB (tuner); 75 dB (aux)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.5 dB
- **IM**: 0.05% at 1 watt
- **Response**: 20 Hz to 30 kHz, ±0.5 dB
- **Sensitivity**: 2.0 mV (phone); 220 mV (high level)
- **Overload**: 120 mV (phone)
- **S/N**: 70 dB (phone); 70 dB (tuner); 75 dB (aux)
- **Phono EQ**: 30 Hz to 15 kHz, ±0.5 dB
- **IM**: 0.05% at 1 watt
- **Price**: $850

**RX-504**

- **Price**: $350
- **Dimensions**: 5¼H x 17W x 13D
- **Weight**: 20 lbs
- **Quieting**: 15.5 dB/37 dB
- **S/N**: 70 dB/65 dB
- **Response**: 30 Hz to 15 kHz, ±1.3 dB
- **THD**: 0.04%
Models also available

R-12,$1,100 R-9,$800 R-6,$650

SANSUI
Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, NJ. 07071

R-3C
Price $335
Dimensions 5¼'H x 17¼'W x 14D
Weight 20 lbs.
Input 11.2 dB/19.2 dB
S/N 85 dB/68 dB
Response 30 Hz to 15 kHz, +0.5 dB/same
THD 0.15% /0.25% (1 kHz)
Separation 30 dB, 100 Hz to 10 kHz
Subcarrier 60 dB
Capture 1.5 dB
Selectivity 80 dB
Power 30 watts (14.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD
IM 0.09% at 30 watts
Response 20 Hz to 20 kHz, ±0.25 dB
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 125 mV (phone)
S/N 78 dB (phone); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.5 dB
Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Low filter 6 dB/octave below 30 Hz
Features Signal-strength and center-tune meters; full complementary circuit

G-33000
Price $1,900
Dimensions 9½ x 25W x 21½D
Weight 100 lbs.
Input 12.5 dB/34 dB
S/N 82 dB/77 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/same
THD 0.05%/0.07% (1 kHz)
Separation 30 dB, 30 Hz to 15 kHz; 50 dB (1 kHz)
Subcarrier 65 dB
Capture 0.9 dB
Selectivity 50 dB
Power 300 watts (24.75 dBW) continuous from 5 Hz to 20 kHz at no more than 0.009% THD
IM 0.009% at 300 watts
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 350 mV (phone)
S/N 78 dB (phone); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Separate preamp and power amp; 4 meters; triple tone controls; switchable turnovers; m/c/mixing input; phono impedance selector; Dolby FM de-emphasis; AM and FM dual bandwidth IF switching; 2 phono; 2 tape inputs with 2-way copying; 2-system speaker selector; midrange control (±5 dB at 1.5 kHz); slew rate: 90 volts per microsecond; 1.4 microsecond rise time

G-9700
Price $1,100
Dimensions 7 1/8x19 15/16xW x 19/2D
Weight 48 lbs. 14 oz.
Input 12.5 dB/35 dB
S/N 82 dB/76 dB
Response 30 Hz to 15 kHz, +0.2, -1 dB/30 Hz to 15 kHz, +0.2, -1 dB
Features Digital readout; quartz-lock touch tuning; parametric equalizer; 5-station AM/FM memory; bargraph display of signal strength, multiband, tape out, and power

S-8000
Price $1,900
Dimensions 101/4 x 42 x 161/2H x 22W x 18D
Weight 100 lbs.
Input 15 dBf/35 dBf
S/N 15 dBf/35 dBf
Response 30 Hz to 15 kHz, ±0.2, -1 dB/same
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 25 dB, 30 Hz to 15 kHz, 42 dB (1 kHz)
Subcarrier 60 dB
Capture 1 dB
Selectivity 50 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD
IM 0.025% at 50 watts
Response DC to 20 kHz, +0, -3 dB
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 250 mV (phone)
S/N 78 dB (phone); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Patented digitally quartz-locked tuning system; 3-point tune and 8-point signal indicator; LED peak power level display (12 points each channel); mic mixing; dual bandwidth FM, 2-way tape copying; dual phone inputs; 2-system speaker selector; midrange control (±5 dB at 1.5 kHz); slew rate: 80 volts per microsecond; 1.4 microsecond rise time

Models also available

S-9000
Price $1,900
Dimensions 10 1/4 x 42 x 16 1/2H x 22W x 18D
Weight 100 lbs.
Input 15 dBf/35 dBf
S/N 15 dBf/35 dBf
Response 30 Hz to 15 kHz, ±0.2, -1 dB/same
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 25 dB, 30 Hz to 15 kHz, 42 dB (1 kHz)
Subcarrier 60 dB
Capture 1 dB
Selectivity 50 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD
IM 0.025% at 50 watts
Response DC to 20 kHz, +0, -3 dB
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 250 mV (phone)
S/N 78 dB (phone); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Patented digitally quartz-locked tuning system; 3-point tune and 8-point signal indicator; LED peak power level display (12 points each channel); mic mixing; dual bandwidth FM, 2-way tape copying; dual phone inputs; 2-system speaker selector; midrange control (±5 dB at 1.5 kHz); slew rate: 80 volts per microsecond; 1.4 microsecond rise time

S-9000
Price $1,900
Dimensions 10 1/4 x 42 x 16 1/2H x 22W x 18D
Weight 100 lbs.
Input 15 dBf/35 dBf
S/N 15 dBf/35 dBf
Response 30 Hz to 15 kHz, ±0.2, -1 dB/same
THD 0.1% (1 kHz)/0.15% (1 kHz)
Separation 25 dB, 30 Hz to 15 kHz, 42 dB (1 kHz)
Subcarrier 60 dB
Capture 1 dB
Selectivity 50 dB
Power 90 watts (19.5 dBW) continuous from 20 Hz to 20 kHz at no more than 0.025% THD
IM 0.025% at 50 watts
Response DC to 20 kHz, +0, -3 dB
Sensitivity 2.5 mV (phone); 150 mV (high level)
Overload 250 mV (phone)
S/N 78 dB (phone); 95 dB (tuner); 95 dB (aux)
Phono EQ 20 Hz to 20 kHz, ±0.2 dB
Bass ±10 dB at 50 Hz
Treble ±10 dB at 10 kHz
High filter 6 dB/octave above 3 kHz
Low filter 6 dB/octave below 16 Hz
Features Patented digitally quartz-locked tuning system; 3-point tune and 8-point signal indicator; LED peak power level display (12 points each channel); mic mixing; dual bandwidth FM, 2-way tape copying; dual phone inputs; 2-system speaker selector; midrange control (±5 dB at 1.5 kHz); slew rate: 80 volts per microsecond; 1.4 microsecond rise time
### TA-500

**Price** $465  
**Dimensions** 6 1/4” x 19 1/8” x 13 3/16”  
**Weight** 24 lbs.  
**Quieting** 15 dB/38 dB  
**S/N** 75 dB/70 dB  
**Response** 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB  
**THD** 0.1% (1 kHz)/0.15% (1 kHz)  
**Separation** 40 dB (1 kHz)  
**Capture** 1 db  
**Selectivity** 50 db  
**Power** 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM** 0.05% at 50 watts  
**Response** DC to 70 kHz, +1, -3 dB  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 210 mV (phono)  
**S/N** 75 dB (phono); 95 dB (tuner); 95 dB (aux)  
**Phono EQ**  
**Bass** +10 dB at 50 Hz  
**Treble** +10 dB at 10 kHz  
**High filter** 6 dB/octave above 10 kHz  
**Low filter** 6 dB/octave below 20 Hz  
**Features**  
- Two tape monitors; FM mode switch; loudness switch; multiple back light; removable rack-mounting handles

### G-4700

**Price** $430  
**Dimensions** 6 1/4” x 17 1/16” x 14 1/4”  
**Weight** 19 lbs.  
**Quieting** 15 dB/38 dB  
**S/N** 75 dB/70 dB  
**Response** 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB  
**THD** 0.15% (1 kHz)/0.25% (1 kHz)  
**Separation** 40 dB (1 kHz)  
**Subcarrier** 45 dB  
**Capture** 1 db  
**Selectivity** 50 db  
**Power** 50 watts (17 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD  
**IM** 0.05% at 50 watts  
**Response** DC to 70 kHz, +1, -3 dB  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 210 mV (phono)  
**S/N** 75 dB (phono); 95 dB (tuner); 95 dB (aux)  
**Phono EQ**  
**Bass** +10 dB at 50 Hz  
**Treble** +10 dB at 10 kHz  
**High filter** 6 dB/octave above 10 kHz  
**Low filter** 6 dB/octave below 20 Hz  
**Features**  
- Two tape monitors; FM mode switch; loudness switch; multiple back light; removable rack-mounting handles

### G-5700

**Price** $549.95  
**Dimensions** 6 3/4” x 6 3/4” x 14”  
**Weight** 20 lbs.  
**Quieting** 15 dB/38 dB  
**S/N** 75 dB/70 dB  
**Response** 30 Hz to 15 kHz, +0.5, -1 dB/30 Hz to 15 kHz, +0.5, -1 dB  
**THD** 0.1% (1 kHz)/0.15% (1 kHz)  
**Separation** 45 dB (1 kHz)  
**Capture** 1 db  
**Selectivity** 80 db  
**Power** 120 watts (20.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.08% THD  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 250 mV (phono)  
**S/N** 70 dB (phono); 90 dB (tuner); 90 dB (aux)  
**Phono EQ**  
**Bass** +10 dB at 100 Hz  
**Treble** +10 dB at 15 kHz  
**High filter** 6 dB/octave above 8 kHz  
**Low filter** 12 dB/octave below 30 Hz  
**Features**  
- Two tape inputs with dubbing; tone control; turntable switch; midrange tone control

### SANYO

**Sanyo Electric Co.**  
1200 W. Artesia Blvd.  
Compton, Calif. 90220

### JCX-2900

**Price** $549.95  
**Dimensions** 21 1/4” x 6 5/8” x 16 3/4”  
**Weight** 24 lbs.  
**Quieting** 9.3 dB  
**S/N** 78 dB/78 dB  
**Response** 20 Hz to 15 kHz, +1, -2 dB  
**THD** 0.1% (1 kHz)/0.15% (1 kHz)  
**Separation** 45 dB (1 kHz)  
**Capture** 1 db  
**Selectivity** 80 db  
**Power** 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 200 mV (phono)  
**S/N** 97 dB (phono); 45 dB (tuner); 95 dB (aux)  
**Phono EQ**  
**Bass** +10 dB at 100 Hz  
**Treble** +10 dB at 10 kHz  
**High filter** 6 dB/octave above 8 kHz  
**Low filter** 12 dB/octave below 30 Hz  
**Features**  
- Sampling quartz-locked tuning system; LED signal indicators; dual-gate MOSFET RF amplifier; advanced IF design; switchable FM muting; DOLBY FM de-emphasis switch; phono preamplifier with moving-coil cartridge capability; three-band discrete tone equalizer with defeat; LED power indicators

### PLUS 75

**Price** $549.95  
**Dimensions** 5 1/2” x 18” x 11 1/2”  
**Weight** 20 lbs.  
**Quieting** 13.7 dB/37 dB  
**S/N** 75 dB/70 dB  
**Response** 20 Hz to 15 kHz, +1, -2 dB  
**THD** 0.2% (100 Hz)/0.35% (100 Hz)  
**Separation** 45 dB (1 kHz to 10 kHz)  
**Capture** 1.2 db  
**Selectivity** 75 db  
**Power** 150 watts (21.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 200 mV (phono)  
**S/N** 97 dB (phono); 45 dB (tuner); 95 dB (aux)  
**Phono EQ**  
**Bass** ±10 dB at 100 Hz  
**Treble** ±10 dB at 10 kHz  
**High filter** 6 dB/octave above 8 kHz  
**Low filter** 12 dB/octave below 30 Hz  
**Features**  
- Sampling quartz-locked tuning system; LED signal indicators; dual-gate MOSFET RF amplifier; advanced IF design; switchable FM muting; DOLBY FM de-emphasis switch; phono preamplifier with moving-coil cartridge capability; three-band discrete tone equalizer with defeat; LED power indicators

### PLUS SERIES

**PLUS 200**

**Price** $899.95  
**Quieting** 13.5 dB/36.3 dB  
**S/N** 83 dB/78 dB  
**Response** 20 Hz to 15 kHz, +0.5, -1 dB  
**THD** 0.15% (100 Hz)/0.3% (100 Hz)  
**Capture** 1.8 db  
**Power** 400 watts (26 dBW) continuous from 20 Hz to 20 kHz at no more than 0.09% THD  
**Sensitivity** 2.5 mV (phono); 150 mV (high level)  
**Overload** 250 mV (phono)  
**S/N** 97 dB (phono); 83 dB (tuner); 95 dB (aux)  
**Phono EQ**  
**Bass** ±10 dB at 100 Hz  
**Treble** ±10 dB at 10 kHz  
**High filter** 6 dB/octave above 8 kHz  
**Features**  
- Sampling quartz-locked tuning system; separate tuner/preamp and power amp sections; Digital Plus analog and digital frequency display; ring emitter transistors in output stage for ultra-high 170 volt per microsecond slew rate, selectable wide/narrow IF bandwidth; premag for moving coil phono cartridges; peak power indicators with 12 LEDs per channel; selectable FM de-emphasis for DOLBY FM decoding; separate tape monitor and dubbing switches for bidirectional tape copying while monitoring another source

### SCOTT

**H. H. Scott, Inc.**  
20 Commerce Way  
Woburn, Mass. 01801

### 390R

**Price** $775  
**Dimensions** 6 1/2” x 23” x 16”  
**Weight** 49 lbs.  
**Quieting** 15.6 dB/35.6 dB  
**S/N** 80 dB/75 dB  
**Response** 25 Hz to 15 kHz, ±2 dB (mono)  
**THD** 0.1% (mono)  
**Separation** 50 dB (1 kHz)  
**Capture** 7 dB  
**Selectivity** 80 dB  
**Power** 120 watts (20.75 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
**370R**

- **Price:** $500
- **Dimensions:** 6H x 20W x 1 1/4D
- **Weight:** 35 lbs. 8 oz.
- **Frequency Response:**
  - Treble: 60 watts (17.75 dBW) continuous
  - Bass: 2.5 mV (phono); 160 mV (high level)
- **Selectivity:** 60 dB
- **Price:** $425

**330R**

- **Price:** $280
- **Dimensions:** 5 1/2H x 17 1/4W x 10 1/4D
- **Weight:** 21 lbs.
- **Frequency Response:**
  - Treble: 20 Hz to 20 kHz, ±0.5 dB
  - Bass: 0.2% at 45 watts
- **Selectivity:** 50 dB
- **Price:** $230

**S-7150CP**

- **Price:** $230
- **Dimensions:** 5 1/2H x 17 1/4W x 10 1/4D
- **Weight:** 18 lbs.
- **Frequency Response:**
  - Treble: 20 Hz to 20 kHz, ±0.5 dB
  - Bass: 0.2% at 15 watts
- **Selectivity:** 50 dB
- **Price:** $330

**SONY**

- **Models also available:**
  - S-7450CP, $350; S-7250CP, $290

**TRV-V5**

- **Price:** $580
- **Dimensions:** 7 9/16H x 20 1/2W x 17 1/2D
- **Weight:** 45 lbs.
- **Frequency Response:**
  - Treble: 20 Hz to 20 kHz, ±0.5 dB
  - Bass: 0.2% at 45 watts
- **Selectivity:** 50 dB
- **Price:** $220

**SHERWOOD**

- **Sherwood**
  - **Features:**
    - High filter
    - Bass
    - Phono EQ
    - Selectivity
    - Capture
    - S/N
    - Dimension
    - Price
    - Weight

**S-7650CP**

- **Price:** $425
- **Dimensions:** 5 11/16H x 18W x 14D
- **Weight:** 24 lbs.
- **Frequency Response:**
  - Treble: 0.03% at 120 watts
  - Bass: 0.08% at 15 watts
  - Phono EQ: RIAA, +1.5 dB
- **Selectivity:** 70 dB
- **Price:** $360

**Models also available:**

- **S-7450CP, $350; S-7250CP, $290**
Models also available
R-2080, $225

TANDBERG
Tandberg of America, Inc.
Labriola Court
Armonk, N.Y. 10504

TR-2080
Price $1,400
Dimensions 6H x 201/4W x 131/2D
Weight 27 lbs. 3 oz.
 Quieting 14.8 dB/32 dB (mono/stereo)
 S/N 78 dB/75 dB (mono/stereo)
 Response 20 Hz to 15 kHz, ±0.75 dB (mono and stereo)
 THD 0.5%, 30 Hz to 15 kHz (mono/stereo)
 Separation 40 dB, 100 Hz to 10 kHz
 Subcarrier 60 dB
 Capture 0.9 dB
 Selectivity 80 dB
 Power 80 watts (19 dBW) continuous from 20 Hz to 20 kHz at no more than 0.05% THD
 IM Response 6 Hz to 80 kHz, ±0.75 dB

Models also available
SA-700
Price $700
Dimensions 61/4H x 211/4W x 151/2D
Weight 39 lbs. 11 oz.
 Quieting 13.2 dB/36.2 dB

SA-1000
Price $1,700
Dimensions 71/4H x 241/4W x 211/2D
Weight 87 lb.
 Quieting 12.8 dB/36 dB
 S/N 83 dB/90 dB
 Response 20 Hz to 18 kHz, ±0.2, -0.8 dB (mono)
 THD 0.1% (1 kHz)/same
 Separation 120 dB (1 kHz)
 Subcarrier 70 dB
 Capture 1 dB
 Selectivity 85 dB
 Power 300 watts (25.8 dBW) continuous from 20 Hz to 20 kHz at no more than 0.03% THD
 IM 0.03% at 330 watts
 Response 20 Hz to 20 kHz, ±0.2 dB, 5 Hz to 20 kHz, ±1 dB
 Sensitivity 2.5 mV (phono), 150 mV (high level)
 Overload 300 mV (phono)
 S/N 97 dB (phono), 100 dB (aux)
 Phone EQ 30 Hz to 15 kHz, ±0.2 dB
 Bass ±10 dB at 50 Hz
 Treble ±10 dB at 20 kHz
 High filter 12 dB/octave above 8 kHz
 Low filter 12 dB/octave below 30 Hz
 Features LED power display, acoustic control; phono input capacitance and resistance selec-
tors; midrange control (+ 7 dB at 1 kHz); midrange cut/boost frequency adjustable from 250 Hz to 5 kHz

SA-500
Price $430
Dimensions 61/4H x 191/4W x 12 15/16D
Weight 25 lbs. 2 oz.
 Quieting 13.7 dB/37.2 dB
 S/N 75 dB/70 dB
 Response 20 Hz to 20 kHz, ±0.5 dB; 10 Hz to 40 kHz, ±1 dB
 Sensitivity 2.5 mV (phono), 150 mV (high level)
 Overload 150 mV (phono)
 S/N 95 dB (phono), 95 dB (aux)
 Phone EQ 30 Hz to 15 kHz, ±0.2 dB
 Bass ±10 dB at 50 Hz
 Treble ±10 dB at 10 kHz
 High filter 6 dB/octave above 7 kHz
 Low filter 6 dB/octave below 100 Hz
 Features LED power display; acoustic control; phono input capacitance and resistance selec-
tors; midrange control (+ 7 dB at 1 kHz); acoustic control

SA-300
Price $300
Dimensions 53/4H x 181/4W x 111/4D
Weight 17.6 lbs.
 Quieting 13.7 dB/37.2 dB
 S/N 75 dB/70 dB
 Response 20 Hz to 15 kHz, ±1, -2 dB
 THD 0.15%/0.3% (1 kHz)

95
### TUNESUM

**Elpa Marketing Industries, Inc.**

**New Hyde Park, N.Y. 11040**

#### Models also available

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#### Models also available

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### TOSHIBA

**Toshiba America, Inc.**

**280 Park Ave.**

**New York, N.Y. 10017**

#### Models also available

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<th>Bass</th>
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#### Models also available

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<td>5 kHz/octave</td>
<td>MOSFET, FGD filter, PLL</td>
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#### Models also available

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<td>5 kHz/octave</td>
<td>MOSFET, FGD filter, PLL</td>
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</table>
### Audio-Technica LMF-2 Features

- Features:
  - Removable
  - Tapered carbon-fiber arm with a low-mass-to-high-tensile-strength ratio; hand-picked stainless steel instrument bearings; micro-polished for virtually frictionless movement; compatible with all high quality magnetic cartridges between 4 and 11 grams in weight.

### Audio-Technica AT-1009 Features

- Features:
  - Dynamic Tracing System eliminates change in tracking force as groove modulation varies; adjustable damping and lateral balance; interchangeable diecast magnesium headshell.

### Audio-Technica AT-1010 Features

- Features:
  - Pneumatic cueing with remote actuator; tracking force readable to 0.1 gram; antiskating may be adjusted while arm is in operation. Extra AT-D universal headshell available separately at $12.

### American Audioport DA-401 Features

- Features:
  - Double gimbal ball bearings lifted 45 degrees for image stability; detachable headshell; fully adjustable arm; cueing damped in both directions; plug-in audio cables.

### Decca International Tonearm Features

- Features:
  - "Bulletproof" tonearm for rugged professional applications; thumb screws and locking set screws provided for major adjustments; extra AT-P universal headshell available separately at $12.
### DA-307
- **Price**: $255
- **Length**: 9½”, pivot to stylus
- **Eff. mass**: 11 grams
- **VTF**: 0 to 2.5 grams
- **Antiskating**: 0.5 to 3 grams
- **Resonance**: 7 Hz (with DL-103D cartridge)
- **Track. error**: 2.5 degrees
- **Headshell**: Removable
- **Features**: Oil-damped cueing, contoured magnetic antiskate; laser interferometry designed arm tube; gold contacts

### DA-309
- **Price**: $220
- **Length**: 9½”, pivot to stylus
- **Eff. mass**: 16 grams
- **VTF**: 0 to 2.5 grams
- **Antiskating**: 0.5 to 3 grams
- **Resonance**: 7 Hz (with DL-103D cartridge)
- **Track. error**: 2.5 degrees
- **Headshell**: Removable
- **Features**: Oil-damped cueing, contoured magnetic antiskating; all wiring interfaces gold-plated

### FIDELITY RESEARCH OF AMERICA
Fidelity Research, Inc.
P.O. Box 5242
Ventura, Calif. 98003

#### FR-66s
- **Price**: $1,250
- **Length**: 12”, pivot to stylus
- **Fric.**: 5 mg
- **Eff. mass**: 38 grams (with FR-S/3 headshell)
- **VTF**: 0 to 5 grams
- **Antiskating**: 0.5 to 3 grams
- **Resonance**: 6.7 Hz (with FR Mk 2 or FR-1 Mk 3F cartridge and FR-S/3 headshell)
- **Track. error**: 0 degree, 40 min to 0 degree, 36 min
- **Headshell**: Removable
- **Features**: Nonmagnetic stainless steel seamless tube, vertical and lateral ball bearings; 16” transcription tonearm; stylus force applied by linear dynamic balance spring; special stabilizer or bottom of pillar post allows adjustment of tracking angle of stylus while playing records; 6 gold-plated connector pins to tonearm cable; Model FR-66s available for $1,300 with silver wire in tonearm from headshell connector to pillar post connector

#### FR-64s
- **Price**: $600
- **Length**: 9½”, to stylus to stylus
- **Fric.**: 5 mg
- **Eff. mass**: 30 grams (with FR-1 Mk 2 or FR-1 Mk 3F cartridge and FR-S/3 headshell)
- **VTF**: 0 to 5 grams
- **Antiskating**: 0.5 to 5 grams (weight and lever)
- **Resonance**: 7 Hz (with FR-1 Mk 2 or FR-1 Mk 3F cartridge)
- **Track. error**: 0 degree, 40 min to 1 degree, 20 min
- **Features**: Nonmagnetic stainless steel construction, gold-plated output connectors; stylus force set by linear dynamic balance spring with 0.5 gram adjustment; accessories available include a heavy stabilizer (not adjustable) and adjustable arm stabilized for changing stylus tracking angle while playing records; also available as Model FR-64s for $640 with silver wire inside tonearm from cartridge attachment to the pillar post

### FR-14
- **Price**: $400
- **Length**: 9⅞”, pivot to stylus
- **Fric.**: 5 mg
- **Eff. mass**: 14 grams
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 5 grams
- **Resonance**: 8.1 Hz (with FR-1Mk 3F cartridge)
- **Track. error**: 1 degree, 50 min at 2 2/5” radius; -1 degree, 20 min at 4 4/5”
- **Headshell**: Removable
- **Features**: Collar on tonearm permits antiskating to be set to become effective at first record groove; adjustable in 1/8 gram increments

### FR-12
- **Price**: $400
- **Length**: 9”, pivot to stylus
- **Fric.**: 5 mg
- **Eff. mass**: 33 grams
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 5 grams (adjustable in half-gram increments)
- **Resonance**: 8 Hz (with FR-1Mk 2 and FR-1Mk 3F cartridges)
- **Track. error**: ±2 degrees, 57 min, -0 degrees, 56 min
- **Headshell**: Removable
- **Features**: This arm designed specifically for turntables such as Linn Sondek, Connoisseur, ERA, etc.; headshell machined from solid block of aluminum; weight: 12 grams

### G-707
- **Price**: $190 ($200 black)
- **Length**: 9½”, pivot to stylus
- **Fric.**: 4 mg lateral and vertical
- **Eff. mass**: 6 grams/cartridge tracking at 1 gram
- **VTF**: 0.5 to 2.5 grams
- **Antiskating**: 0.5 to 2.5 grams
- **Resonance**: 13 Hz (with 6 gram cartridge mass at 25 C1 dynamic compliance at 1 gram pressure)
- **Track. error**: 0 degrees at 2.375” radius
- **Headshell**: Fixed
- **Features**: No wires thru pivot point; top arm removes completely to allow easy change of cartridges with interchangeable prebalanced arms

### KEITH MONKS
Keith Monks (Audio), U.S.A.
652 Glenbrook Road
Glenbrook, Conn. 06906

### M-9BA Mk III
- **Price**: $179.95
- **Length**: 9”, pivot to stylus
- **Fric.**: 4 mg lateral and vertical
- **Eff. mass**: 6 grams/cartridge tracking at 1 gram
- **VTF**: 0.5 to 2.5 grams
- **Antiskating**: 0.5 to 2.5 grams
- **Resonance**: 13 Hz (with 6 gram cartridge mass at 25 C1 dynamic compliance at 1 gram pressure)
- **Track. error**: 0 degrees at 2.375” radius
- **Headshell**: Fixed
- **Features**: Ultra-low mass; decoupled counter-weight, low-friction aircraft bearings

### LINN PRODUCTS
Audiophile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

### LV-II
- **Price**: $450
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 3 grams
- **Headshell**: Fixed

### LUSTRE
Sumiko, Inc.
Box 5046
Berkeley, Calif. 94705

### G-1040
- **Price**: $300
- **Length**: 9½”, pivot to stylus
- **Fric.**: 10 mg
- **Eff. mass**: 9.5 grams
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 2 grams
- **Resonance**: 10 Hz (with Grace F-9L cartridge)
- **Track. error**: 1.5 degrees
- **Features**: Unpiviot, oil-damped tonearm

### G-704
- **Price**: $275
- **Length**: 9½”, pivot to stylus
- **Fric.**: 3 mg
- **Eff. mass**: 6.5 grams
- **VTF**: 0 to 3 grams
- **Resonance**: 10 Hz (with Supex SD-900/E+ cartridge)
- **Track. error**: 1.5 degree
- **Features**: Unpiviot, oil-damped tonearm

### G-714
- **Price**: $275
- **Length**: 9½”, pivot to stylus
- **Fric.**: 3 mg
- **Eff. mass**: 7.5 grams
- **VTF**: 0 to 3 grams
- **Resonance**: 10 Hz (with Supex SD-900/E+ cartridge)
- **Track. error**: 1.5 degree
- **Features**: Unpiviot, oil-damped tonearm

### GST-801
- **Price**: $500
- **Length**: 9 3/5”, pivot to stylus
- **Fric.**: 2.0 mg
- **Eff. mass**: 0.3 to 2.5 grams
- **VTF**: 0.0 to 2.5 grams
- **Antiskating**: 0.0 to 2.5 grams
- **Track. error**: 1.1 degree
- **Headshell**: Removable
### Features
- Dynamic balance, magnetic VTF, magnetic antiskate; silver lead wires, damped pipe; VTA fully adjustable by helicoid; magnesium alloy headshell

### GST-1
- **Price**: $175
- **Length**: 9½", pivot to stylus
- **Friction**: 10 mg
- **Eff. mass**: 8.5 grams
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 3 grams
- **Resonance**: 10 Hz (with Grace SF-90 cartridge)
- **Track. error**: 1.5 degrees
- **Features**: Special pleated internal damping

### MICHELL ENGINEERING
- J. A. Michell Engineering, Ltd.
- 5930 Penfield Ave.
- Woodland Hills, Calif. 91367

### Focus
- **Price**: $225
- **Length**: 9 3/10", pivot to stylus
- **Eff. mass**: 5 grams
- **VTF**: 0 to 6 grams
- **Antiskating**: ½ to 6 grams
- **Resonance**: 8 Hz (with Grado III cartridge)
- **Track. error**: 0.5 degrees at 8" radius
- **Features**: Fluid damper; titanium cartridge - arm sections (incl. cartridge mounting); fixed pivot to stylus length; double aluminum tube (concentric); triple vane damping in vertical plane on unipivot

### MICRO SEIKI
- Great American Sound
- 20940 Lassen St.
- Chatsworth, Calif. 91311

### MA-505LS
- **Price**: $375

### CF-1
- **Price**: $225

### SHURE
- Shure Bros. Inc.
- 222 Hartrey Ave.
- Evanston, Ill. 60204

### M236
- **Price**: $51.50
- **Length**: 8¾", pivot to stylus
- **VTF**: 1.5 or more grams
- **Features**: For 16" recordings; full range of adjustments for static and dynamic balance, cartridge overhang, arm height, etc.

### M232
- **Price**: $47.50
- **Length**: 8⅛", pivot to stylus
- **VTF**: 1.5 or more grams
- **Headshell**: Removable
- **Features**: For 12" recordings; full range of adjustments for static and dynamic balance, cartridge overhang, arm height, etc.

### 3009 Series II Improved
- **Price**: $162
- **Length**: 9", pivot to stylus
- **Friction**: 20 mg
- **Eff. mass**: 6 grams
- **Antiskating**: 0 to 1.5 grams
- **Resonance**: 9 to 10 Hz (with V15 Type III cartridge)
- **Track. error**: 1.5 degrees at 5.5" radius
- **Headshell**: Fixed
- **Features**: Fluid damper FD200 available at $54.60

### STAX
- American Audioport
- 1407 N. Providence Rd.
- Columbia, Mo. 62501

### UA-7cf
- **Price**: $310
- **Length**: 9⅛", pivot to stylus
- **Friction**: 10 mg
- **Eff. mass**: 12 grams
- **VTF**: 0 to 3 grams
- **Antiskating**: 0 to 3 grams
- **Resonance**: 7 Hz (with Denon DL-103D cartridge)
- **Track. error**: 0.10 degrees
- **Headshell**: Removable
- **Features**: Unipivot, contoured antiskate, carbon-fiber arm tube

### ULTRACRAFT
- Osawa & Co. (U.S.A.), Inc.
- 521 Fifth Ave.
- New York, N.Y. 10017

### AC-3000 Mk II
- **Price**: $500
- **Length**: 9⅛", pivot to stylus
- **VTF**: 0 to 2 grams
- **Antiskating**: 0 to 2 grams
- **Track. error**: 2.5 degrees
- **Headshell**: Fixed
- **Features**: Adjustable oil-damped; single needle-point support system; interchangeable plug-in, low-mass arm sections (incl. cartridge mounting); height-adjustable cueing lever; black anodized brass
## Phono Cartridges

### ADC
Audio Dynamics Corp.  
Pickett District Road  
New Milford, Conn. 06776

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Type</th>
<th>Stylus Description</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Vertical angle</th>
<th>Load</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZLM Improved</td>
<td>$135</td>
<td>Induced magnet</td>
<td>0.2 x 1.5 mil</td>
<td>1.25 grams</td>
<td>36 x 10 - 6 cm/dyne lateral</td>
<td>1 mV at 1 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>24 dB at 1 kHz</td>
<td>20 degrees</td>
<td>47 K; 275 pF</td>
<td>Effective moving mass: 0.37 mg</td>
</tr>
<tr>
<td>XLM Mk III Improved</td>
<td>$120</td>
<td>Induced magnet</td>
<td>0.2 x 0.7 mil standard elliptical (geometry)</td>
<td>1.7 to 2.3 grams</td>
<td>Compliance 13 lateral; 11 vertical</td>
<td>Output 2.5 mV at 5 cm/sec at 1 kHz</td>
<td>Response 20 Hz to 50 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>Load 47 K; 275 pF</td>
<td>Features: Carbon fiber headshell; calibrated overhang adjustment</td>
<td></td>
</tr>
<tr>
<td>QLM 36 Mk III Improved</td>
<td>$79.95</td>
<td>Induced magnet</td>
<td>0.25 x 1.5 mil Shibata 3 (geometry)</td>
<td>1.7 to 2.3 grams</td>
<td>Compliance 13 lateral; 11 vertical</td>
<td>Output 2.5 mV at 5 cm/sec at 1 kHz</td>
<td>Response 20 Hz to 50 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>Load 47 K; 275 pF</td>
<td>Features: Diamond tip bonded to a sapphire base for lower cost while maintaining all qualities necessary for wide frequency response and separation; effective moving mass: 0.48 mg</td>
<td></td>
</tr>
<tr>
<td>XLM Mk I Integra</td>
<td>$69.95</td>
<td>Induced magnet</td>
<td>0.2 x 0.7 mil elliptical (geometry)</td>
<td>1.25 grams</td>
<td>Compliance 32 x 10^4 cm/dyne lateral</td>
<td>Output 1.1 mV at 1 cm/sec at 1 kHz</td>
<td>Response 15 Hz to 20 kHz</td>
<td>Separation 26 dB at 1 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>Load 47 K; 275 pF</td>
<td></td>
</tr>
<tr>
<td>QML 33 Mk III</td>
<td>$54.95</td>
<td>Induced magnet</td>
<td>0.25 x 0.7 mil elliptical (geometry)</td>
<td>1.25 grams</td>
<td>Compliance 32 x 10^4 cm/dyne lateral</td>
<td>Output 1.1 mV at 1 cm/sec at 1 kHz</td>
<td>Response 20 Hz to 20 kHz</td>
<td>Separation 24 dB at 1 kHz</td>
<td>Vertical angle Adjustable</td>
<td>Load 47 K; 275 pF</td>
<td></td>
</tr>
</tbody>
</table>

### Models also available

- XLM Mk III Improved, $110; XLM Mk II Integra, $110; QLM 32 Mk III, $49.95; QLM 30 Mk III, $34.95

### P-7E
- Price $80  
- Type Moving iron  
- Stylus Elliptical, 0.3 x 0.7 mil  
- VTF 1.25 to 2.25 grams  
- Compliance $15 x 10^-4 cm/dyne vertical; $20 x 10^-4 cm/dyne vertical  
- Output 4.5 mV at 5 cm/sec at 1 kHz  
- Response 10 Hz to 21.5 kHz  
- Separation 25 dB at 1 kHz  
- Load 47 K; 470 pF  
- Features: Individual response curve; employs patented transversal suspension

### P-6E
- Price $60  
- Type Moving iron  
- Stylus Elliptical; 0.4 x 0.6 mil  
- VTF 1.5 to 3 mils  
- Compliance 20 x 10^-4 cm/dyne vertical; 30 x 10^-4 cm/dyne vertical  
- Output 6.25 mV at 5 cm/sec at 1 kHz  
- Response 20 Hz to 20 kHz  
- Separation 25 dB at 1 kHz  
- Load 47 K; 470 pF  
- Features: Employed patented transversal suspension

### ANDANTE
Sumiko, Inc.  
Box 5046  
Berkeley, Calif. 94705

### E
- Price $90  
- Type Moving magnet  
- Stylus Elliptical; 0.2 x 0.8 mil  
- VTF 1.0 to 1.9 gram  
- Compliance 20 x 10^-4 cm/dyne lateral; 18 x 10^-4 cm/dyne vertical  
- Output 4.0 mV at 5.0 cm/sec at 1 kHz  
- Response 12 Hz to 30 kHz; ±5 dB  
- Separation 30 dB at 1 kHz  
- Vertical angle 20 degrees  
- Load 47 K; 250 pF

### S
- Price $65  
- Type Moving magnet  
- Stylus Spherical; 0.5 mil  
- VTF 1.0 to 2.5 grams  
- Compliance 18 x 10^-4 cm/dyne lateral; 14 x 10^-4 cm/dyne vertical  
- Output 4.0 mV at 5.0 cm/sec at 1 kHz  
- Response 18 Hz to 27 kHz; ±5 dB  
- Separation 28 dB at 1 kHz  
- Vertical angle 20 degrees  
- Load 47 K; 250 pF

### Models also available

- P-8E, $115; P-6R, $55.
## AT-25

| Price | $275 |
| Type  | Moving magnet with toroidal coils |
| Stylus | 0.2 x 0.7 mils nude-mounted elliptical |
| VTF  | 0.8 to 1.6 grams |
| Output | 2.2 mV at 5 cm/sec at 1 kHz |
| Response | 10 Hz to 25 kHz |
| Separation | 35 dB at 1 kHz (or from 25 dB at 10 kHz) |
| Load | 47K, 100 to 200 pF |
| Features | Beryllium cantilever; integrated headshell plugs directly into most Japanese and European tonearms; non-resonant magnesium alloy; calibrated overhang adjustment |

## AT-20SS

| Price | $250 |
| Type  | Dual moving magnet |
| Stylus | Snibata+ |
| VTF  | 0.75 to 1.75 grams |
| Output | 2.7 mV at 5 cm/sec at 1 kHz |
| Response | 5 Hz to 50 kHz |
| Separation | 30 dB at 1 kHz (25 dB at 10 kHz) |
| Vertical angle | 20 degrees |
| Load | 47K, 100 pF |
| Features | Hand-selected version of AT-15SS; availability limited |

## AT-23a

| Price | $225 |
| Type  | Moving magnet with toroidal coils |
| Stylus | 0.2 x 0.7 mils (nude-mounted natural diamond) |
| VTF  | 0.9 to 1.7 grams |
| Output | 2.2 mV at 5 cm/sec at 1 kHz |
| Response | 15 Hz to 23 kHz |
| Separation | 30 dB at 1 kHz (or from 20 dB at 10 kHz) |
| Load | 47K, 100 pF |
| Features | Beryllium cantilever; integrated headshell plugs directly into most Japanese and European tonearms; non-resonant magnesium alloy; calibrated overhang adjustment |

## AT-15SS

| Price | $200 |
| Type  | Dual moving magnet |
| Stylus | Snibata+ |
| VTF  | 0.75 to 1.75 gram |
| Output | 2.7 mV at 5 cm/sec at 1 kHz |
| Response | 5 Hz to 45 kHz |
| Separation | 33 dB at 1 kHz (23 dB at 10 kHz) |
| Vertical angle | 20 degrees |
| Load | 47K, 100 pF |
| Features | Gold-plated die-cast case for stability; supplied with individual machine-run response curve; beryllium cantilever also available as AT15Sa/H, premounted in universal headshell; $15B |

## AT-15XE

| Price | $175 |
| Type  | Dual moving magnet |
| Stylus | Elliptical; 0.2 x 0.7 mil |
| VTF  | 0.75 to 1.75 gram |
| Output | 2.7 mV at 5 cm/sec at 1 kHz |
| Response | 5 Hz to 30 kHz |
| Separation | 32 dB at 1 kHz (22 dB at 10 kHz) |
| Vertical angle | 20 degrees |
| Load | 47K, 100 pF |

## AT-30E

| Price | $125 |
| Type  | Moving coil |
| Stylus | 0.3 x 0.7 mils nude-mounted elliptical (geometry) |
| VTF  | 1.4 to 2 grams |
| Output | 0.28 mV at 5 cm/sec |
| Response | 15 Hz to 25 kHz |
| Separation | 25 dB at 1 kHz (or from 15 Hz to 10 kHz) |
| Load | 20K |
| Features | Elliptical version of AT-15SS; supplied with individual machine-run response curve |

## AT-12E

| Price | $70 |
| Type  | Dual moving magnet |
| Stylus | Elliptical; 0.4 x 0.7 mil |
| VTF  | 2 to 3 grams |
| Output | 4.2 mV at 5 cm/sec at 1 kHz |
| Response | 15 Hz to 26 kHz |
| Separation | 23 dB at 1 kHz (17 dB at 10 kHz) |
| Load | 47K, 100 pF |
| Features | High visibility coating on cantilever tip eases cueing in poor light |

## ATP-3

| Price | $60 |
| Type  | Dual moving magnet |
| Stylus | Elliptical; 0.2 x 0.7 mil |
| VTF  | 4 to 5 grams |
| Output | 2.12 mV at 5 cm/sec at 1 kHz |
| Response | 15 Hz to 22 kHz |
| Separation | 23 dB at 1 kHz (17 dB at 10 kHz) |
| Vertical angle | 20 degrees |
| Load | 47K, 100 pF |
| Features | High visibility coating on cantilever tip eases cueing in poor light |

## BANG & OLUFSEN

**Bang & Olufsen of America, Inc.**

- **ATP-20EN**
  - Price: $125
  - Type: Moving micro-cross
  - Stylus: 5 x 17 mils naked elliptical (geometry)
  - VTF: 2.12 mV at 5 cm/sec at 1 kHz
  - Response: 20 Hz to 20 kHz, ±2 dB
  - Separation: 25 dB at 1 kHz
  - Vertical angle: 20 degrees
  - Load: 47 K; 220 pF
  - Features: 0.4 mg effective tip mass; replaceable stylus; MK VI Gold, not load-sensitive

## Models also available

- **MMC-20E**, $70

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**DECCA**

- **Rocelco, Inc.**
  - 1669 Flint Road
  - Downsview, Ontario M3J 2J7

**Mk V1 Gold**

- Price: $199.50
- Type: Moving iron
- Stylus: Elliptical; 0.6 x 0.3 mil
- VTF: 1.5 gram
- Compliance: 15 x 10^-4 cm/dyne lateral; 7.5 x 10^-5 cm/dyne vertical
- Output: 5 mV at 5 cm/sec
- Response: 20 Hz to 20 kHz
- Vertical angle: 15 degrees
- Load: 50K, 250 to 300 pF
- Features: “Positive Scanning” no-cantilever suspension system for improved transient response

**Models also available**

- Decca Mk V1 Plump, $149.50

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**DENON**

- **American Audiopori, 1407 N. Providence Road, Columbia, Mo. 65201**

**DL-303**

- Price: $385
- Type: Moving coil
- Stylus: 1.97 x 3.94 mils special elliptical (geometry)
- VTF: 1.0 to 1.4 grams
- Compliance: 13 x 10^-4 cm/dyne vertical at 100 Hz
- Output: 0.2 mV at 50 cm/sec at 1 kHz
- Response: 70 kHz
- Separation: 25 dB at 1 kHz
- Load: 0.1 K; 100 pF
- Features: Weight: 5.8 grams; tapered double construction cantilever; samarium cobalt magnet; one-point suspension system
<table>
<thead>
<tr>
<th>Stylus Type</th>
<th>Price</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDR.9</td>
<td>$200</td>
<td>8 x 10⁻⁴ cm²/dyne lateral</td>
<td>0.3 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 60 kHz</td>
<td>25 dB at 1 kHz</td>
<td>40 ohms or more</td>
<td>Insensitive to capacitive loads; inertially damped, tuned stylus system</td>
</tr>
<tr>
<td>DL-103s</td>
<td>$186</td>
<td>8 x 10⁻⁴ cm²/dyne lateral</td>
<td>0.3 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 60 kHz</td>
<td>25 dB at 1 kHz</td>
<td>40 ohms or more</td>
<td></td>
</tr>
<tr>
<td>DL-103</td>
<td>$140</td>
<td>5 x 10⁻⁴ cm²/dyne lateral</td>
<td>0.3 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 45 kHz</td>
<td>25 dB at 1 kHz</td>
<td>40 ohms or more</td>
<td>Available in a package (DL-103/T) with a nonswitchable 40-ohm transformer, at $200</td>
</tr>
</tbody>
</table>

**Models also available**

- DL-103D, $267

**DUAL**

United Audio Products, Inc.

120 South Columbia Ave.

Mt. Vernon, N.Y. 10553

<table>
<thead>
<tr>
<th>Stylus Type</th>
<th>Price</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULM-60E</td>
<td>$150</td>
<td>30 x 10⁻⁴ cm²/dyne lateral, 35 x 10⁻⁴ cm²/dyne vertical</td>
<td>0.7 mV at 1 cm/sec at 1 kHz</td>
<td>10 Hz to 30 kHz</td>
<td>28 dB at 1 kHz</td>
<td>47K, 400 mF</td>
<td>20 degrees</td>
</tr>
<tr>
<td>ULM-50E</td>
<td>$80</td>
<td>18 x 10⁻⁴ cm²/dyne lateral, 20 x 10⁻⁴ cm²/dyne vertical</td>
<td>0.7 mV at 1 cm/sec at 1 kHz</td>
<td>10 Hz to 25 kHz</td>
<td>25 dB at 1 kHz</td>
<td>47K, 400 mF</td>
<td>20 degrees</td>
</tr>
</tbody>
</table>

**Models also available**

- ULM-50E, $110

**EMPIRE**

Empire Scientific Corp.

1055 Stewart Ave.

Garden City, N.Y. 11530

<table>
<thead>
<tr>
<th>Stylus Type</th>
<th>Price</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDR.9</td>
<td>$200</td>
<td>0.3 x 3.0 mils LAC (geometry)</td>
<td>0.75 to 1.25 grams</td>
<td>1.5 to 2.1 grams</td>
<td>28 lateral; 26 vertical</td>
<td>4.5 mV at 5 cm/sec at 1 kHz</td>
<td></td>
</tr>
<tr>
<td>DL-103</td>
<td>$140</td>
<td>0.5 to 1.25 grams</td>
<td>20 Hz to 45 kHz</td>
<td>25 dB at 1 kHz</td>
<td>40 ohms or more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Broadcast One**

<table>
<thead>
<tr>
<th>Stylus Type</th>
<th>Price</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDR.9</td>
<td>$45</td>
<td>14 x 10⁻¹ cm²/dyne lateral, 14 x 10⁻¹ cm²/dyne vertical</td>
<td>4.5 mV at 3.54 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>15 dB at 10 kHz</td>
<td>47K, 400 mF</td>
<td>20 degrees</td>
</tr>
<tr>
<td>DL-103</td>
<td>$150</td>
<td>10 x 10⁻⁴ cm²/dyne lateral</td>
<td>47K; 400 mF</td>
<td>20 Hz to 20 kHz, ±2 dB</td>
<td>27 dB at 1 kHz</td>
<td>Vertical angle 15 degrees</td>
<td>3 ohms impedance</td>
</tr>
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</table>

**Models also available**

- EDR.9, $200
- DL-103, $140

**2000**

<table>
<thead>
<tr>
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<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>$35</td>
<td>Moving iron/variable reluctance</td>
<td>$75 to 1.25 gram</td>
<td>30 x 10⁻⁴ cm²/dyne lateral, 30 x 10⁻⁴ cm²/dyne vertical</td>
<td>0.75 mV at 3.54 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz, ±3 dB</td>
<td>21 dB from 500 Hz to 15 kHz, 16 dB from 20 to 500 Hz, 15 kHz, 16 dB from 20 to 500 Hz, 13 dB from 15 to 20 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>47K, 400 mF</td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

- 2000X, $125; 4000D/I, $100; 2000T, $100; 2000E/I, $70; 2000E/I, $90

**EMT**

Gotham Audio Corp.

741 Washington St.

New York, N.Y. 10014

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>$450</td>
<td>Moving iron/variable reluctance</td>
<td>Elliptical; 0.2 x 0.7 mil</td>
<td>0.75 mV at 3.54 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz, ±2 dB</td>
<td>21 dB from 500 Hz to 15 kHz, 16 dB from 20 to 500 Hz, 15 kHz, 16 dB from 20 to 500 Hz, 13 dB from 15 to 20 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>47K, 400 mF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

- 2000X, $125; 4000D/I, $100; 2000T, $100; 2000E/I, $70; 2000E/I, $90

**FIDELITY RESEARCH**

Fidelity Research, Inc.

P.O. Box 5242

Ventura, Calif. 93003

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>$60</td>
<td>Moving iron/variable reluctance</td>
<td>Elliptical; 0.3 x 0.7 mil</td>
<td>0.75 mV at 3.54 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz, ±2 dB</td>
<td>21 dB from 500 Hz to 15 kHz, 16 dB from 20 to 500 Hz, 15 kHz, 16 dB from 20 to 500 Hz, 13 dB from 15 to 20 kHz</td>
<td>Vertical angle 20 degrees</td>
<td>47K, 400 mF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

- EMT, $75; 2000/1, $85; 4000/1, $120

**FR-1Mk7**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Vertical angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>$660</td>
<td>Moving iron/variable reluctance</td>
<td>Elliptical; 0.2 x 0.8 mil</td>
<td>0.2 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>28 dB from 200 Hz to 10 kHz, ±0 dB</td>
<td>12 to 30 kHz</td>
<td>3 ohms impedance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

- 3 FMk2, $80; 3 FMk2, $100; 3 FMk2, $120

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High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 Super E</td>
<td>$87</td>
<td>Moving magnet</td>
<td>Bradial, 0.3 x 0.7 mil</td>
<td>47K</td>
<td>1.85 gram</td>
<td>4 mV at 5 cm/sec</td>
<td>10 Hz to 25 kHz</td>
<td>25 dB at 1 kHz</td>
<td>47 to 100 K; 200 to 400 pF</td>
<td>Low mechanical impedance; low mass cantilever</td>
</tr>
<tr>
<td>820 Super E</td>
<td>$50</td>
<td>Moving magnet</td>
<td>Biradial, 0.3 x 0.7 mil</td>
<td>47K</td>
<td>0.75 gram</td>
<td>5 mV at 5 cm/sec</td>
<td>10 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47 to 100 K; 200 to 400 pF</td>
<td>Special polymer pivot point; cantilever restraining wire for fore-aft-motion restraint</td>
</tr>
<tr>
<td>G-900SE2</td>
<td>$160</td>
<td>Moving magnet</td>
<td>7 x 2 mils elliptical</td>
<td>1.5 to 1.75</td>
<td>12 lateral; 10 vertical</td>
<td>4 mV at 5 cm/sec</td>
<td>10 Hz to 20 kHz</td>
<td>34 dB at 1 kHz</td>
<td>4 ohms trans. or 47 K; 30 pF</td>
<td>Low mass; 4 grams; designed for low-mass tonearms (under 6 grams)</td>
</tr>
<tr>
<td>G-900E</td>
<td>$95</td>
<td>Moving magnet</td>
<td>7 x 3 mils elliptical</td>
<td>1.5 to 4</td>
<td>10 Hz to 20 kHz; ±2 dB</td>
<td>5 mV at 5 cm/sec</td>
<td>10 Hz to 20 kHz</td>
<td>18 lateral</td>
<td>47 K; 150 to 200 pF</td>
<td>Features: Low mass; 4 grams; designed for high-mass tonearms</td>
</tr>
<tr>
<td>SF-90</td>
<td>$250</td>
<td>Moving magnet</td>
<td>Luminal Trace; 0.2 x 0.7 mil</td>
<td>1.5 to 4</td>
<td>30dB at 1 kHz</td>
<td>5.5 mV at 5 cm/sec</td>
<td>10 Hz to 40 kHz</td>
<td>10 Hz to 20 kHz</td>
<td>47 to 100 K; 200 to 400 pF</td>
<td>Features: Integrated cartridge and headshell with Advanced Luminal Trace stylus permits an effective tip mass of 0.4 mg for longer record wear and longer stylus life</td>
</tr>
<tr>
<td>F-9L</td>
<td>$180</td>
<td>Moving magnet</td>
<td>Luminal Trace; 0.2 x 0.7 mil</td>
<td>1.5 to 4</td>
<td>30 dB at 1 kHz</td>
<td>5.5 mV at 5 cm/sec</td>
<td>10 Hz to 40 kHz</td>
<td>10 Hz to 20 kHz</td>
<td>47 to 100 K; 200 to 400 pF</td>
<td>Features: Integrated cartridge and headshell with Advanced Luminal Trace stylus permits an effective tip mass of 0.4 mg for longer record wear and longer stylus life</td>
</tr>
<tr>
<td>GRACE</td>
<td>$250</td>
<td>Moving magnet</td>
<td>Luminal Trace; 0.2 x 0.7 mil</td>
<td>1.5 to 4</td>
<td>30 dB at 1 kHz</td>
<td>5.5 mV at 5 cm/sec</td>
<td>10 Hz to 40 kHz</td>
<td>10 Hz to 20 kHz</td>
<td>47 to 100 K; 200 to 400 pF</td>
<td>Features: Integrated cartridge and headshell with Advanced Luminal Trace stylus permits an effective tip mass of 0.4 mg for longer record wear and longer stylus life</td>
</tr>
</tbody>
</table>

**Models also available**

- **GRACE**
  - Sumiko, Inc.
  - Box 5046
  - Berkeley, Calif. 94705

- **SF-90**
  - Price: $250

- **F-9L**
  - Price: $180

- **GREAT AMERICAN SOUND**
  - Great American Sound Co.
  - 20940 Lassen St.
  - Chatsworth, Calif. 91311
### Super-Elliptical (X)

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$200</td>
<td>Moving coil</td>
<td>Elliptical, 0.3 x 0.6 mil</td>
<td>1.8 gram</td>
</tr>
</tbody>
</table>

**Compliance:** $15 \times 10^{-6}$ cm/dyne lateral; $15 \times 10^{-4}$ cm/dyne vertical

**Output:** 0.27 mV at 5 cm/sec at 1 kHz

**Response:** 5 Hz to 40 kHz, $\pm 3$ dB

**Separation:** 34 dB at 1 kHz

**Vertical angle:** 18 degrees

**Load:** 20 to 10 kHz

**Features:** Beryllium-copper cantilever

**Models also available:**
- Spherical (S), $160

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### Linn Products

**Linn-Asak DC-2100K**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$350</td>
<td>Moving coil</td>
<td>0.3 x 0.8 mil modified elliptical (geometry)</td>
<td>1.6 to 2.2 grams</td>
</tr>
</tbody>
</table>

**Compliance:** $25 \times 10^{-4}$ cm/dyne lateral; $20 \times 10^{-4}$ cm/dyne vertical

**Output:** 3.5 mV at 5 cm/sec

**Response:** 5 Hz to 20 kHz, $\pm 1.25$ dB

**Separation:** 30 dB at 1 kHz

**Vertical angle:** 15 degrees

**Load:** 10 to 100K, 100 to 1,500 pF (not critical)

**Features:** Low mass (under 6 grams); requires no head amp

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### MICRO-ACOUSTICS

**530-MP**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$200</td>
<td>Direct-coupled electret</td>
<td>Micro-Point</td>
<td>0.7 to 1.4 gram</td>
</tr>
</tbody>
</table>

**Compliance:** $25 \times 10^{-4}$ cm/dyne lateral; $20 \times 10^{-4}$ cm/dyne vertical

**Output:** 3.5 mV at 5 cm/sec

**Response:** 5 Hz to 20 kHz, $\pm 1.25$ dB

**Separation:** 30 dB at 1 kHz

**Vertical angle:** 15 degrees

**Load:** 10 to 100K, 100 to 1,500 pF (not critical)

**Features:** Playback stylus patterned after Micro-Point® recording stylus; full 2-year warranty; patented electret design; low mass

**Models also available:**
- 2002-e, $125

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### NAGATRON

**Nagatronics Corp.**

**P.O. Box 509**

**Baldwin, N.Y. 11510**

**HV-9100**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$275</td>
<td>Induced magnet</td>
<td>Elliptical</td>
<td>1.6 to 2 grams</td>
</tr>
</tbody>
</table>

**Compliance:** $15 \times 10^{-6}$ cm/dyne (100 Hz) lateral; $9 \times 10^{-10}$ cm/dyne (100 Hz) vertical

**Output:** 2 mV at 50mm/sec at 1 kHz

**Response:** 20 Hz to 30 kHz

**Separation:** 25 dB at 1 kHz

**Vertical angle:** 20 degrees, $\pm 4$ degrees

**Load:** 10 to 30K

**Features:** Crystallized solid-titanium cantilever; integral headshell

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### High Fidelity's Buying Guide to Stereo Components

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**MC-1000**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$315</td>
<td>Moving coil</td>
<td>Elliptical, 0.3 x 0.8 mil</td>
<td>1.9 grams</td>
</tr>
</tbody>
</table>

**Compliance:** $9 \times 10^{-10}$ cm/dyne (100 Hz) lateral; $9 \times 10^{-10}$ cm/dyne (100 Hz) vertical

**Output:** 4 mV at 5 cm/sec at 1 kHz

**Response:** 10 Hz to 25 kHz

**Separation:** 25 dB at 1 kHz

**Vertical angle:** 22 degrees

**Load:** 50K, 350 pF

**Features:** Solid carbon-fiber cantilever

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**MC-500**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$135</td>
<td>Moving coil</td>
<td>Triangular</td>
<td>1.9 to 2.5 grams</td>
</tr>
</tbody>
</table>

**Compliance:** $7 \times 10^{-10}$ cm/dyne lateral; $7 \times 10^{-10}$ cm/dyne vertical

**Output:** 0.2 mV at 5 cm/sec at 1 kHz

**Response:** 10 Hz to 65 kHz

**Separation:** 27 dB at 1 kHz

**Features:** Requires head amp such as Nakamichi MB-150 or transformer such as MC-100; beryllium cantilever; one-point cantilever/coil support; "push/pull" damping system, crystalloy-core coil

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### High Fidelity's Buying Guide to Stereo Components

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**Nakamichi USA Corp.**

**1101 Colorado Ave.**

**Santa Monica, Calif. 90401**

**MC-1000**

<table>
<thead>
<tr>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>$315</td>
<td>Moving coil</td>
<td>Triangular</td>
<td>1.9 to 2.5 grams</td>
</tr>
</tbody>
</table>

**Compliance:** $7 \times 10^{-10}$ cm/dyne lateral; $7 \times 10^{-10}$ cm/dyne vertical

**Output:** 0.2 mV at 5 cm/sec at 1 kHz

**Response:** 10 Hz to 65 kHz

**Separation:** 27 dB at 1 kHz

**Features:** Requires head amp such as Nakamichi MB-150 or transformer such as MC-100; beryllium cantilever; one-point cantilever/coil support; "push/pull" damping system, crystalloy-core coil

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**Nakamichi MB-150**

**Transformer such as MCB-100; beryllium cantilever; one-point cantilever/coil support; "push/pull" damping system, crystalloy-core coil

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**High Fidelity's Buying Guide to Stereo Components**
<table>
<thead>
<tr>
<th>Model Name</th>
<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Compliance</th>
<th>Output</th>
<th>Response</th>
<th>Vertical angle</th>
<th>Load</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM-20</td>
<td>$115</td>
<td>Moving magnet</td>
<td>Fine line</td>
<td>1.5 to 2.1 grams</td>
<td>15 x 10^-4 cm/dyne lateral; 22 x 10^-4 cm/dyne vertical</td>
<td>3.5 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 1 kHz</td>
<td>20 degrees</td>
<td>47K</td>
<td>Variable magnetic shunt principle; low-mass design with total weight of 2.6 grams</td>
</tr>
<tr>
<td>OS-300MP</td>
<td>$110</td>
<td>Moving magnet</td>
<td>0.3 x 0.7 mils</td>
<td>1.5 to 2 grams</td>
<td>9 x 10^-4 cm/dyne dynamic; 20 x 10^-4 cm/dyne static</td>
<td>20 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 degrees</td>
<td>47K</td>
<td></td>
</tr>
<tr>
<td>LM-30</td>
<td>$150</td>
<td>Moving magnet</td>
<td>Fine line</td>
<td>1.2 to 1.8 grams</td>
<td>25 x 10^-4 cm/dyne lateral; 28 x 10^-4 cm/dyne vertical</td>
<td>3 mV at 5 cm/sec at 1 kHz</td>
<td>20 Hz to 25 kHz</td>
<td>20 degrees</td>
<td>47K, 400 pF</td>
<td>Variable magnetic shunt principle; low-mass design with total weight of 6.5 grams</td>
</tr>
<tr>
<td>OSAWA</td>
<td>$165</td>
<td>Moving magnet</td>
<td>0.4 x 0.7 mils</td>
<td>100K, 100 pF</td>
<td>9 x 10^-4 cm/dyne dynamic; 21 x 10^-4 cm/dyne static</td>
<td>4.5 mV</td>
<td>20 Hz to 23 kHz</td>
<td>20 degrees</td>
<td>100 pF</td>
<td>Boron cantilever</td>
</tr>
<tr>
<td>XV-15/1200E</td>
<td>$80</td>
<td>Moving magnet</td>
<td>0.2 x 0.7 mils</td>
<td>10 Hz to 30 kHz, +3 dB</td>
<td>20 Hz to 20 kHz</td>
<td>24 dB at 1 kHz</td>
<td>100 pF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XV-15/625DJ</td>
<td>$60</td>
<td>Moving magnet</td>
<td>0.4 x 0.7 mils</td>
<td>1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>24 dB at 1 kHz</td>
<td>100 pF</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**
- OS-100MP, $75, OS-110MP, $55, OS-100MP, $45

**Pickering & Company, Inc.**
101 Sunnyside Blvd.
Plainview, N.Y. 11803

**XSV/4000**
Price $140
Type Moving magnet
Stylus Stereohedron (geometry)
VTF 0.75 to 1.25 grams
Output 0.7 mV at 1 cm/sec at 1 kHz
Response 10 Hz to 36 kHz
Separation 35 dB at 1 kHz
Load 47K, 275 pF
Features Features low-mass extremely compliant stylus assembly to trace high velocity groove modulations

**XSV/4500Q**
Price $140
Type Moving magnet
Stylus Quadrahedron
VTF 0.5 to 1.5 grams
Response 10 Hz to 50 kHz, ±1.5 dB
Separation 35 dB at 1 kHz
Features CD-4 cartridge

**XV-15/1200E**
Price $60
Type Moving magnet
Stylus Elliptical; 0.2 x 0.7 mils
VTF 0.5 to 1.25 gram
Response 10 Hz to 30 kHz, +3 dB
Separation 35 dB at 1 kHz
Features Glass magnet for greater S/N

**XV-15/625DJ**
Price $60
Type Moving magnet
Stylus 0.4 x 0.7 mils
VTF 1 to 4 grams
Output 4.4 mV at 5.5 cm/sec
Response 20 Hz to 20 kHz
Separation 30 dB
Load 275 pF

**Models also available**
- XSV-3000, $100, XV-15/2000Q, $70; XV-15/750E, $65;
  XV-15/625E, $60; XV-15/400E, $55

**Precedent Audio Products, Inc.**
306 E. Oliver St.
Baltimore, Md. 21202

**1980 Edition**
Z-MOD
Price $175
Type Moving magnet
Stylus 0.6 x 0.3 mls elliptical (geometry)
VTF 1 to 1.5 grams
Output 3 mV at 3.54 cm/sec at 1 kHz
Response 10 Hz to 60 kHz, ±0.5 dB
Separation 25 dB (or from 10 Hz to 30 kHz)
Vertical angle 17½ degrees
Load 47K
Features Designed for medium to high mass tonearms

Models also available
M-18E, $250; 117S, $225; M-117G, $175

SHURE
Shure Bros. Inc.
222 Hartrey Ave.
Evanson, Ill. 60204

V15 Type IV
Price $150
Type Moving magnet
Stylus Hyperelliptical
VTF 0.75 to 1.25 gram
Output 4 mV at 5 cm/sec peak velocity at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K, 250 pF
Features Viscous-damped dynamic stabilizer; totally new computer-designed moving system; trackability (cm/sec peak velocity) at 1 gram: 29 at 400 Hz, 42 at 1 kHz, 27 at 10 kHz

V20 Type II
Price $200
Type Moving magnet
Stylus 0.4 x 0.7 mils biradial elliptical (geometry)
VTF 0.75 to 1.5 grams
Output 4 mV at 5 cm/sec peak velocity at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K, 250 pF
Features Kerfed cartridge; 19 dB at 1 kHz; 13 dB at 10 kHz

V15 Type III-G
Price $80
Type Moving magnet
Stylus Spherical, 0.6 mls
VTF 0.75 to 1.25 grams
Output 3 mV at 5 cm/sec peak velocity at 1 kHz
Response 10 Hz to 25 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K, 250 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 24 at 400 Hz, 35 at 1 kHz, 25 at 10 kHz

M-18BX
Price $300
Type Moving coil
Stylus Shibata; 0.1 x 2.5 mils
VTF 0.5 to 1.5 gram
Compliance 20 x 10⁻⁴ cm/dyne lateral; 20 x 10⁻⁴ cm/dyne vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 25 kHz
Separation 30 dB at 1 kHz
Vertical angle 18 degrees
Load 100K
Features Beryllium cantilever; user-replaceable stylus; needs no transformer or head amp; true fixed point stylus cantilever pivot; special formula damping lubricant

M-18X
Price $275
Type Moving coil
Stylus Shibata; 0.1 x 2.5 mils
VTF 0.5 to 1.5 gram
Compliance 15 x 10⁻⁴ cm/dyne lateral; 15 x 10⁻⁴ cm/dyne vertical
Output 2.5 mV at 5 cm/sec at 1 kHz
Response 10 Hz to 35 kHz
Separation 30 dB at 1 kHz
Vertical angle 18 degrees
Load 100K
Features User-replaceable stylus; needs no transformer or head amp

117Z
Price $125
Type Moving coil
Stylus 0.2 x 0.8 mls bonded conical (geometry)
VTF 1.5 to 2.5 grams
Output 30 mV
Response 20 Hz to 25 kHz
Load 47K

Models also available
M-18E, $250; 117S, $225; M-117G, $175

SATIN
Osawa & Co. (USA), Inc.
521 Fifth Ave.
New York, N.Y. 10017

SUMIKO
P.O. Box 5046
Berkeley, Calif. 94705

SC39ED
Price $100
Type Moving magnet
Stylus 0.2 x 0.7 mils biradial elliptical (geometry)
VTF 0.75 to 1.5 grams
Output 4 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K, 250 pF
Features Professional cartridge; trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

SC39ED
Price $100
Type Moving magnet
Stylus 0.2 x 0.7 mils biradial elliptical (geometry)
VTF 0.75 to 1.5 grams
Output 4 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz; 15 dB at 10 kHz
Load 47K, 250 pF
Features Professional cartridge; trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

M24H
Price $88.50
Type Moving magnet
Stylus Long-contact hyperbolic
VTF 1 to 1.5 gram
Output 3 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 50 kHz
Separation 22 dB min at 1 kHz
Load 100K, 100 pF (4-channel discrete);
120 dB at 100 kHz, 100 pF to 250 pF (stereo and 4-channel matrix)
Features Stereо and 4-channel cartridge
Trackability (cm/sec peak velocity) at 2 grams: 20 at 400 Hz, 28 at 1 kHz, 25 at 0 kHz

M75ED Type 2
Price $66.95
Type Moving magnet
Stylus Braidial elliptical; 0.2 x 0.7 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K, 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

M91E
Price $91.50
Type Moving magnet
Stylus Braidial elliptical; 0.2 x 0.7 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K, 450 pF
Features Trackability (cm/sec peak velocity) at 1 gram: 20 at 400 Hz, 28 at 1 kHz, 18 at 10 kHz

M91GD
Price $56.50
Type Moving magnet
Stylus Spherical; 0.6 mils
VTF 0.75 to 1.5 gram
Output 5 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 25 dB at 1 kHz
Load 47K, 450pF
Features Trackability (cm/sec peak velocity) at 1 gram: 22 at 400 Hz, 33 at 1 kHz, 19 at 10 kHz

M93E
Price $51.50
Type Moving magnet
Stylus Braidial elliptical; 0.4 x 0.7 mils
VTF 1.5 to 3 grams
Output 6.2 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K, 450pF
Features Trackability (cm/sec peak velocity) at 2 grams: 18 at 400 Hz, 25 at 1 kHz, 13 at 10 kHz

M70EJ
Price $44.95
Type Moving magnet
Stylus Braidial elliptical; 0.4 x 0.7 mils
VTF 1.5 to 3 grams
Output 6.2 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K, 450pF
Features Trackability (cm/sec peak velocity) at 2 grams: 19 at 400 Hz, 26 at 1 kHz, 12 at 10 kHz

M75ECS
Price $40.95
Type Moving magnet
Stylus Braidial elliptical; 0.4 x 0.7 mils
VTF 2 to 4 grams
Output 9.3 mV at 5 cm/sec peak velocity at 1 kHz
Response 20 Hz to 20 kHz
Separation 20 dB at 1 kHz
Load 47K, 450 pF

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<th>Price</th>
<th>Type</th>
<th>Stylus</th>
<th>VTF</th>
<th>Output</th>
<th>Response</th>
<th>Separation</th>
<th>Load</th>
<th>Price</th>
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<tbody>
<tr>
<td>$41.95</td>
<td>Moving magnet</td>
<td>Biradial elliptical, 0.2 x 0.7 mils</td>
<td>0.75 to 2 grams</td>
<td>6.2 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>22 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$41.95</td>
<td>Moving magnet</td>
<td>Biradial elliptical, 0.4 x 0.7 mils</td>
<td>1.75 to 4 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$36.50</td>
</tr>
<tr>
<td>$99.50</td>
<td>Moving magnet</td>
<td>Spherical, 0.7 mils</td>
<td>1.5 to 3 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$99.50</td>
<td>Moving magnet</td>
<td>Spherical, 0.4 x 0.7 mils</td>
<td>1.75 to 4 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$99.50</td>
</tr>
<tr>
<td>$23.95</td>
<td>Moving magnet</td>
<td>Spherical, 0.7 mils</td>
<td>3 to 5 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$23.95</td>
<td>Moving magnet</td>
<td>Spherical, 0.7 mils</td>
<td>3 to 5 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$23.95</td>
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<tr>
<td>$325</td>
<td>Moving magnet</td>
<td>Spherical, 0.7 mils</td>
<td>3 to 5 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$325</td>
<td>Moving magnet</td>
<td>Spherical, 0.7 mils</td>
<td>3 to 5 grams</td>
<td>9.5 mV at 5 cm/sec peak velocity at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
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<td>$325</td>
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<td>$115</td>
<td>Moving iron</td>
<td>Spherical</td>
<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$115</td>
<td>Moving iron</td>
<td>Spherical</td>
<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
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<td>0.75 to 1.25 grams</td>
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<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
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<td>Moving iron</td>
<td>Spherical</td>
<td>0.25 to 1 grams</td>
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<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
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<td>$300</td>
<td>Moving coil</td>
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<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
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<td>Moving coil</td>
<td>Spherical</td>
<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
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<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
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<td>Moving iron</td>
<td>Spherical</td>
<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
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<td>47K, 450 pF</td>
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<td>$137.50</td>
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<td>20 dB at 1 kHz</td>
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<td>$137.50</td>
<td>Moving iron</td>
<td>Elliptical</td>
<td>0.25 to 1 grams</td>
<td>0.75 to 1.25 grams</td>
<td>20 Hz to 20 kHz</td>
<td>20 dB at 1 kHz</td>
<td>47K, 450 pF</td>
<td>$137.50</td>
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<td><strong>500EE</strong></td>
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<td>Moving magnet</td>
<td>Elliptical; 0.4 x 0.7 mil</td>
<td>$40</td>
<td>20 Hz to 20 kHz, ±3 dB</td>
<td>35 dB at 1 kHz</td>
<td>47K; 275 pF</td>
<td>400E</td>
<td>Moving iron</td>
<td>$50</td>
<td>2 to 4 grams</td>
<td>1 mV at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
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<tr>
<td><strong>500E</strong></td>
<td>$35</td>
<td>Moving magnet</td>
<td>Elliptical; 0.3 x 0.7 mil</td>
<td>$35</td>
<td>20 Hz to 20 kHz, ±2 dB</td>
<td>35 dB at 1 kHz</td>
<td>47K; 275 pF</td>
<td>500A</td>
<td>Moving magnet</td>
<td>$30</td>
<td>2 to 5 grams</td>
<td>1 mV at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
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<td><strong>500A</strong></td>
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<td>Moving magnet</td>
<td>Spherical; 0.07 mil</td>
<td>$30</td>
<td>28 dB at 1 kHz</td>
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<td>3 to 7 grams</td>
<td>1 mV at 1 kHz</td>
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<td><strong>SDX-1000</strong></td>
<td>$500</td>
<td>Moving coil</td>
<td>0.3 x 0.7 mm Line Contact (geometry)</td>
<td>$500</td>
<td>1 mV at 1 kHz</td>
<td>1 mV at 1 kHz</td>
<td>47K; 275 pF</td>
<td>500A</td>
<td>Moving magnet</td>
<td>$30</td>
<td>2 to 5 grams</td>
<td>1 mV at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
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<td><strong>SD-900 MkII</strong></td>
<td>$350</td>
<td>Moving coil</td>
<td>0.3 x 0.8 mm elliptical (geometry)</td>
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<td>1 mV at 1 kHz</td>
<td>1 mV at 1 kHz</td>
<td>47K; 275 pF</td>
<td>500A</td>
<td>Moving magnet</td>
<td>$30</td>
<td>2 to 5 grams</td>
<td>1 mV at 1 kHz</td>
<td>20 Hz to 20 kHz</td>
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<td><strong>SM-1000</strong></td>
<td>$279.95</td>
<td>Moving magnet</td>
<td>0.3 x 0.8 mm</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
<td>33 1/3; 45</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
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<tr>
<td><strong>SM-1000</strong></td>
<td>$279.95</td>
<td>Moving magnet</td>
<td>0.3 x 0.8 mm</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
<td>33 1/3; 45</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
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<td><strong>1700DD</strong></td>
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<td>0.3 x 0.8 mm</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
<td>33 1/3; 45</td>
<td>$279.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
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<td><strong>3001</strong></td>
<td>$249.95</td>
<td>Moving magnet</td>
<td>0.3 x 0.8 mm</td>
<td>$249.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
<td>33 1/3; 45</td>
<td>$249.95</td>
<td>11 Hz (with ADC LMA-3 cartridge)</td>
<td>1700DD</td>
<td>$270.95</td>
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</tr>
</tbody>
</table>

### A Note on Prices

Prices shown in these pages are manufacturers’ or importers’ nationally advertised values, updated as is feasible by press time.
| Models also available | Beogram 2402, $325 |
| Models also available | B.A.G. 

| AP-B10C | Price: $100 |
| Dimensions: 5 3/10H x 17 3/10W x 14D |
| Weight: 13 lbs |
| Type: Manual |
| Speeds: 33 1/3, 45 |
| Motor type: 4-pole synchronous |
| Drive type: Belt |
| Rumble: -65 dB (weighted per DIN B standard) |
| Wow/Flutter: 0.05% (weighted per DIN standard) |

| AP-B200 | $190 |
| Dimensions: 5 4/5H x 17 3/5W x 14 1/5D |
| Weight: 13 lbs. 6 oz |
| Type: Automatic repeat |
| Speeds: 33 1/3, 45 |
| Speed adj. ±3% |
| Motor type: 24-pole synchronous AC servo |
| Drive type: Belt |
| Rumble: -70 dB (weighted per DIN B standard) |
| Wow/Flutter: 0.05% (weighted per WRMS standard) |

| Models also available | Beogram 2402, $325 |

| BANG & OLFUSSEN | Bang & Olufsen of America, Inc. |
| 515 Busse Road | Elk Grove Village, Ill. 60007 |

| Beogram 4004 | Price: $850 |
| Dimensions: 4X x 19W x 14X/4D |
| Weight: 24 lbs. 3 oz |
| Type: Fully automatic |
| Speeds: 33 1/3, 45 |
| Speed adj. ±3% |
| Motor type: Tach DC for platter; separate DC servo for tonearm |
| Drive type: Belt |
| Rumble: -65 dB (DIN B) |
| Wow/Flutter: 0.025% (WRMS) |
| Cueing: Yes |
| VTF: 0 to 2 grams |
| Antiskating: Not applicable; tangential tracking |
| Resonance: 13 Hz (with MMC-20EN cartridge) |
| Track error: 0.04 degrees |
| Headshell: Removable |
| Features: Price includes MMC-20EN cartridge, base, and dust cover; opto-electronically controlled tangentially-tracking tonearm; pendulum/leaf-spring suspension |

| Models also available | Beogram 2402, $325 |

| B.J.C. | B.J.C./Avnet |
| South Service Road | Westbury, N.Y. 11590 |

| 80 Z | Price: $239.95 |
| Dimensions: 64H x 18 1/4W x 15 1/4D |
| Weight: 21 lbs |
| Type: Changer |
| Speeds: 33 1/3, 45 |
| Speed adj. ±3% |
| Motor type: 24-pole synchronous AC servo |
| Drive type: Belt |
| Rumble: -70 dB (weighted per DIN B standard) |
| Wow/Flutter: 0.05% (weighted per WRMS standard) |
| Eff. arm mass: 12 grams |
| Cueing: Yes |
| VTF: 0 to 3 grams |
| Antiskating: 0 to 3 grams |
| Resonance: 12 Hz (with Shure M-91ED cartridge) |
| Track error: 0.27 degree |
| Headshell: Removable |
| Features: Digital drive system with readout, integrated removable headshell/tonearm; jeweled tonearm bearings |

| Sp-85 | Price: $239.95 |
| Dimensions: 54H x 18 1/4W x 14 3/4D |
| Weight: 21 lbs |
| Type: Automatic repeat |
| Speeds: 33 1/3, 45 |
| Speed adj. ±3% |
| Motor type: 24-pole synchronous AC servo |
| Drive type: Belt |
| Rumble: -70 dB (weighted per DIN B standard) |
| Wow/Flutter: 0.05% (weighted per WRMS standard) |
| Eff. arm mass: 12 grams |
| Cueing: Yes |
| VTF: 0 to 3 grams |
| Antiskating: 0 to 3 grams |
| Resonance: 12 Hz (with Shure M-91ED cartridge) |
| Track error: 0.27 degree |
| Headshell: Removable |
| Features: Same as Model 80 Z |

| 60 Z | Price: $179.95 |
| Dimensions: 64H x 18 1/4W x 15 1/4D |
| Weight: 18 lbs |
| Type: Changer |
| Speeds: 33 1/3, 45 |
| Speed adj. ±3% (strobe) |
| Motor type: 24-pole 300-RPM synchronous |
| Drive type: Belt |
| Rumble: -68 dB (weighted per DIN B standard) |
| Wow/Flutter: 0.06% (weighted per WRMS standard) |
| Eff. arm mass: 12 grams |
| Cueing: Yes |
| VTF: 0 to 3 grams |
| Antiskating: 0 to 3 grams |
| Resonance: 12 Hz (with Shure M-91ED cartridge) |
| Track error: 0.27 degree |
| Headshell: Fixed |
| Features: Programmer system; dynamically-balanced arm;
Models also available
Sp-65, $179 95; 40Z, $149 95; 20Z, $99 95

BSR (USA), Ltd.
Route 303
Blauvelt, N.Y. 10913

XR-50
Price $200
Dimensions 17 13/16H x 14 1/2W x 6 3/4D
Weight 14 lbs.
Type Changer
Speeds 33 1/3, 45
Motor type AC synchronous
Drive type Belt
Rumble -66 dB
Wow/Flutter 0 04%
Cueing Yes
VTF 2 to 4 grams
Antiskating 0 to 4 grams
Resonance 10 to 12 Hz (with ADC OLM-32 cartridge supplied)
Headshell Fixed
Features Infrared total remote including volume control; select records in desired order; Accuglide record transport system

QUANTA SERIES

450-Sx
Price $100
Dimensions 6 1/4H x 17 1/4W x 14 1/8D
Weight 15 lbs.
Type Changer
Speeds 33 1/3, 45
Motor type 24-pole, 300-rpm synchronous AC
Drive type Belt
Rumble -62 dB (DIN B)
Wow/Flutter 0 08% (WRMS)
Cueing Yes
VTF 0 to 4 grams
Antiskating 0 to 6 grams
Headshell Fixed
Features Autoglide umbrella spindle; sold completely assembled with base, dust cover and ADC OLM-32 cartridge

Models also available 400, $100

A Note on Prices
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.
**DENON**

American Audioport
1407 N. Providence Road
Columbia, Mo. 65201

**DP-6700**

- **Price**: $1,060
- **Dimensions**: 7½H x 20¼W x 16½D
- **Weight**: 37 lbs. 8 oz.
- **Type**: Manual
- **Speeds**: 33 1/3, 45
- **Motor type**: Solid rotor type AC servo
- **Drive type**: Direct
- **Rumble**: 77 dB (DIN B)
- **Wow/Flutter**: 0.015% (WRMS)
- **Eff. arm mass**: 411 grams
- **Cueing**: Yes
- **VTF**: 0.25 to 3 grams
- **Antiskating**: 0 to 2 grams
- **Resonance**: 7.8 Hz (with ULM Ortofon ULM-60E cartridge)
- **Track. error**: 2.5 degrees
- **Headshell**: Removable
- **Features**: Electronic cueing; antiskating uses diminishing-spring principle; calibration chart supplied for various stylus shapes; 7-lb. dynamically balanced platter; tonearm bearings have 32 sapphire jewels; adjustable tonearm height

**DP-606**

- **Price**: $279.95
- **Dimensions**: 16½H x 14½W x 5 1/5D
- **Weight**: 20 lbs.
- **Type**: Fully automatic
- **Speeds**: 33 1/3, 45
- **Speed adj.**: ±10% (strobe)
- **Motor type**: CMOS DC electronic
- **Drive type**: Direct
- **Rumble**: 75 dB (weighted per DIN B standard)
- **Wow/Flutter**: 0.03% (weighted per WRMS standard)
- **Eff. arm mass**: 5.5 grams
- **Cueing**: Yes
- **VTF**: 0.25 to 3 grams
- **Antiskating**: 0 to 3 grams
- **Resonance**: 7.8 Hz (with ULM Ortofon ULM-55E cartridge)
- **Track. error**: 0.16 degrees/cm
- **Headshell**: Removable
- **Features**: Low-mass tonearm (8 grams with ULM-55E); tunable antiresonator counterweight; optional remote control

**FISHER**

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

**MT-6250**

- **Price**: $300 ($325 with cartridge)
- **Dimensions**: 6½H x 17¼W x 14¼D
- **Weight**: 18 lbs. 11 oz.
- **Type**: Semiautomatic
- **Speed adj.**: ±6%
- **Motor type**: 120-pole linear quartz phase-locked loop
- **Drive type**: Direct
- **Rumble**: 70 dB (DIN B)
- **Wow/Flutter**: 0.03% (WRMS)
- **Eff. arm mass**: 14.9 grams
- **Cueing**: Yes
- **VTF**: 0.25 to 3 grams
- **Antiskating**: 0 to 3 grams
- **Resonance**: 7 Hz (with ULM Ortofon ULM-55E cartridge)
- **Track. error**: ±1.5 degrees
- **Features**: Extended 5-year drive-system warranty available; quartz-locked speed control

**FISHER**

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

**MT-6225A**

- **Price**: $249.95 ($269.95 with cartridge)
- **Dimensions**: 6H x 17¼W x 14¼D
- **Weight**: 17 lbs. 11 oz.
- **Type**: Semiautomatic
- **Speed adj.**: ±3%
- **Motor type**: 120-pole linear
- **Drive type**: Direct
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<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Speeds</th>
<th>Drive type</th>
<th>Motor type</th>
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<th>Resonance</th>
<th>Features</th>
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<td>GT-350</td>
<td>$229.95</td>
<td>7¾ x 14½ in (17±4 W x 11±4 in)</td>
<td>15 lbs.</td>
<td>Changer</td>
<td>33 1/3, 45</td>
<td>Belt</td>
<td>DC servo</td>
<td>60 dB</td>
<td>10 Hz</td>
<td>Front controls, carbon-fiber headshell, low-mass tonearm, Delgide® automatic changing mechanism</td>
<td>Headshell Removable</td>
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<td>DC servo</td>
<td>65 dB</td>
<td>10 Hz</td>
<td>Front controls, carbon-fiber headshell, low-mass tonearm, Delgide® automatic changing mechanism</td>
<td>Headshell Removable</td>
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<td>7¼ x 16½ W x 13¼ D</td>
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<td>33 1/3, 45</td>
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<td>DC servo</td>
<td>60 dB</td>
<td>10 Hz</td>
<td>Front controls, carbon-fiber headshell, low-mass tonearm, Delgide® automatic changing mechanism</td>
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<td>10 Hz</td>
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</tbody>
</table>

**FONS**

Fons International Electronics, Ltd.

11046 Santa Monica Blvd.

Los Angeles, Calif. 90025

**International Mk I**

- **Price**: $315
- **Dimensions**: 6¼ x 14 W x 17¾ D
- **Weight**: 16 lbs.
- **Type**: Manual
- **Speeds**: 33 1/3, 45, 78
- **Speed adj.**: 1¼ rpm, continuously adjustable
- **Motor type**: DC servo-controlled
- **Drive type**: Belt
- **Rumble**: -75 dB (DIN)
- **Wow/Flutter**: 0.03% (DIN)
- **Features**: Tachometer-generator electronic speed control, hyper-concentric main bearing, high-mass, single-piece die-cast platter

**GARRARD**

Garrard/Plessey Consumer Products

100 Commercial St.

Plainview, N.Y. 11803

**HARMAN KARDON**

Harman Kardon, Inc.

55 Ames Court

Plainview, N.Y. 11803

High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Speeds</th>
<th>Motor Type</th>
<th>Drive Type</th>
<th>Rumble</th>
<th>Wow/Flutter</th>
<th>VTF</th>
<th>Track Error</th>
<th>Features</th>
<th>Models also available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garrard GT-350AP</td>
<td>$399</td>
<td>63/4H x 16 1/2W x 16 1/4D</td>
<td>23 lbs</td>
<td>Semiautomatic</td>
<td>33 1/3, 45</td>
<td>Brushless DC Hall effect</td>
<td>Belt</td>
<td>-68 dB</td>
<td>0.04%</td>
<td>-65 dB</td>
<td>0 to 3 grams</td>
<td>Removable</td>
<td>L-All (1980 Edition)</td>
</tr>
<tr>
<td>Hitachi HT-550</td>
<td>$300</td>
<td>51H x 18 1/4W x 15D</td>
<td>16 lbs</td>
<td>Semiautomatic</td>
<td>33 1/3, 45</td>
<td>Uni-torque quartz</td>
<td>Direct</td>
<td>0 to 3 grams</td>
<td>0.025%</td>
<td>0 to 3 grams</td>
<td>0 to 3 grams</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>Onkyo CP-1020F</td>
<td>$400</td>
<td>5 19/32H x 17 61/64W x 15 3/8D</td>
<td>33 lbs</td>
<td>Manual</td>
<td>6 Hz</td>
<td>Coreless DC servomotor</td>
<td>Direct</td>
<td>75 dB</td>
<td>0.013%</td>
<td>0.06%</td>
<td>+1 degree, 48 min,-1 degree, 43 min, 55 mm</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>Kenwood KD-650</td>
<td>$520</td>
<td>7H x 17 1/8W x 14 5/8D</td>
<td>10 lbs</td>
<td>Manual</td>
<td>113 Hz</td>
<td>Coreless DC servomotor</td>
<td>Direct</td>
<td>-74 dB</td>
<td>0.022%</td>
<td>1.5 degrees</td>
<td>0 to 3 grams</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>JVC QL-F6</td>
<td>$400</td>
<td>5 19/32H x 17 61/64W x 15 3/8D</td>
<td>24 lbs</td>
<td>Auto repeat</td>
<td>33 1/3, 45</td>
<td>Quartz PLL</td>
<td>Direct</td>
<td>24 dB</td>
<td>0.022%</td>
<td>0 to 3 grams</td>
<td>2 degrees, 20 seconds to 1 degree 20 seconds</td>
<td>Removable</td>
<td>Models also available</td>
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<tr>
<td>JVC QL-10</td>
<td>$1,250</td>
<td>7H x 20 1/2W x 16 1/2D</td>
<td>42 lbs</td>
<td>Manual</td>
<td>33 1/3, 45</td>
<td>Coreless DC servo quartz-lock</td>
<td>Direct</td>
<td>75 dB</td>
<td>0.013%</td>
<td>0 to 3 grams</td>
<td>0 to 3 grams</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>JVC America Co.</td>
<td>$110</td>
<td>51/4H x 18 1/4W x 15D</td>
<td>22 lbs</td>
<td>Manual</td>
<td>33 1/3, 45</td>
<td>4-pole synchronous</td>
<td>Belt</td>
<td>-63 dB</td>
<td>0.013%</td>
<td>0.06%</td>
<td>+2 degrees, 28 seconds to 1 degree 20 seconds</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>JVC 58-75 Queens Midtown Expressway, N.Y.</td>
<td>$400</td>
<td>5 19/32H x 17 61/64W x 15 3/8D</td>
<td>10 lbs</td>
<td>Manual</td>
<td>33 1/3, 45</td>
<td>Quartz PLL</td>
<td>Direct</td>
<td>-74 dB</td>
<td>0.022%</td>
<td>0 to 3 grams</td>
<td>0 to 3 grams</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
<tr>
<td>QL-F4</td>
<td>$230</td>
<td>5 19/32H x 17 61/64W x 15 3/8D</td>
<td>16 lbs</td>
<td>Fully automatic</td>
<td>4-pole synchronous</td>
<td>Coreless DC servomotor</td>
<td>Direct</td>
<td>-78 dB</td>
<td>0.06%</td>
<td>0.06%</td>
<td>+3 degrees, 35 to 0 degree 43 seconds</td>
<td>Removable</td>
<td>Models also available</td>
</tr>
</tbody>
</table>

**1980 Edition**

KENWOOD
Kenwood Electronics
75 Seaview Drive
Secaucus, N.J. 07094

**Kenwood KD-750**
Price $520
Dimensions 6 1/4H x 19 5/15W x 16 5/8D
Weight 38 lbs. 9 oz.
Type Manual
Speeds 33 1/3, 45
Motor Type Quartz PLL
Drive Type Direct
Rumble -74 dB (weighted per DIN standard)
Wow/Flutter 0.022% (WRMS)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track error 1.5 degrees
Headshell Removable
Features Antiresonance base

**Kenwood KD-650**
Price $400
Dimensions 6 1/4H x 19 5/15W x 16 5/8D
Weight 38 lbs. 14 oz.
Type Manual
Speeds 33 1/3, 45
Motor Type Quartz PLL
LAFAYETTE
Lafayette Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

T-5000
Price $249.99
Dimensions 5½H x 17½W x 15D
Weight 19 lbs.
Type Automatic repeat
Speeds 33 1/3, 45
Speed adj. +3%
Motor type DC servo
Drive type Direct
Rumble 65 dB (DIN B)
Wow/Flutter 0.03% (WRMS)
Cueing Yes
VTF 0.5 to 3 grams
Headshell Removable
Features Touch-sensitive switching; independent AC motor for tonearm drive; front-mounted controls for fully-closed operation

T-1000
Price $89.99
Dimensions 5½H x 17¼W x 14½D
Weight 18 lbs.
Type Manual

KD-5070
Price $285
Dimensions 6⅛H x 18⅞W x 14⅛D
Weight 25 lbs. 5 oz.
Type Fully automatic
Speed adj. ±3%
Motor type 20-pole, 30-slot brushless DC servo
Drive type Direct
Rumble ~73 dB (DIN)
Wow/Flutter 0.025% (WRMS)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track error ±1.5 degree
Headshell Removable
Features Antiresonance base

Models also available
KD-600, $350 (tonearm not included); KD-550, $300; KD-500, $250; KD-3100, $199; KD-2000, $158

LENCO
Neosonic Corp. of America
180 Miller Place
Hicksville, N.Y. 11801

L-833DD
Price $300
Type Semiautomatic
Speed adj. ±4%
Motor type DC
Drive type Direct
Rumble ~70 dB (DIN B)
Wow/Flutter ±0.06% (DIN)
VTF 0 to 5 grams
Features Damped tonearm reduces resonance peaks

Models also available
L-236, $180

LINN PRODUCTS, LTD.
Audiofile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

Linn-Sondek LP-12
Price $765
Dimensions 5½H x 17½W x 14D
Weight 25 lbs.
Type Manual
Speeds 33 1/3, 45
Speed adj. None
Motor type 24-pole synchronous
Drive type Belt
Rumble 40 dB (unweighted)
Wow/Flutter 0.04% (WRMS)
Cueing Yes
VTF 0 to 3 grams
Headshell Removable
Features Single-point oil-bath bearing; sold without tonearm

LUX
Lux Audio
160 Dupont St.
Plainview, N.Y. 11803

Luxman PD-444
Price $845

MARANTZ
Marantz, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

6370Q
Price $470
Dimensions 5½H x 18½W x 15D
Weight 18 lbs. 11 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Speed adj. ±6%
Motor type Quartz-locked DC servo
Drive type Direct
Rumble 70 dB (NAB)
Wow/Flutter 0.02% (WRMS)
Efft. arm mass 17.5 grams
VTF 0 to 3 grams
Antiskating 0 to 4 grams
Resonance 7.7 Hz (with Shure V-15 Type III cartridge)
Track error 0.07 degree/cm
Headshell Removable
Features Quartz-locked at any speed; digital speed readout of RPM or percentage change from standard speed; oil-damped arm, low-distortion tonearm, separate motor for arm lift and return, dust cover and base; shock-absorbing feet

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<th>Type</th>
<th>Speeds</th>
<th>Motor type</th>
<th>Drive type</th>
<th>Rumble</th>
<th>Wow/Flutter</th>
<th>Cueing</th>
<th>VTF</th>
<th>Antiskating</th>
<th>Resonance</th>
<th>Track. error</th>
<th>Features</th>
<th>Headshell</th>
<th>Changer</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TT-4000</td>
<td>$250</td>
<td>51 1/4 x 17 3/4 x 15 D</td>
<td>18 lbs. 12 oz</td>
<td>Semi automatic</td>
<td>33 1/3, 45</td>
<td>Brushless, slotless, coreless 8-pole, 2-phase quartz-locked</td>
<td>Direct</td>
<td>-72 dB (weighted per DIN B standard)</td>
<td>0.025% (weighted per WRMS standard)</td>
<td>Reject button; automatic arm return and shut-off, includes smoke dust cover and shock-absorbed feet</td>
<td>TT-2000, $200, 6025, $130</td>
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<td>MCS SERIES</td>
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<td>Dick Wagner (Distributor) 5930 Penfield Ave. Woodland Hills, Calif. 91367</td>
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<td>FOCUS ONE</td>
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<td>Sound Reference, $550 (tone-arm not included)</td>
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<td>20940 Lassen St. Chatsworth, Calif. 91311</td>
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<tr>
<td>MB-14</td>
<td>$175</td>
<td>51 1/4 x 17 3/4 x 13 3/4 D</td>
<td>13 lbs. 3 oz</td>
<td>Semi automatic</td>
<td>33 1/3, 45</td>
<td>4-pole synchronous</td>
<td>Belt</td>
<td>65 dB (DIN B)</td>
<td>0.06% (WRMS)</td>
<td>Reject button; automatic arm return and shut-off, includes smoke dust cover and shock-absorbed feet</td>
<td>Models also available DD-24, $250</td>
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<td>Models also available</td>
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<td>Melco Sales, Inc. 3030 E. Victoria Compton, Calif. 90221</td>
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<td>NAD</td>
<td>NAD (USA), Inc. Mackintosh Lane P.O. Box 529 Lincoln, Mass. 01773</td>
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<td>NAD-5080</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Speeds</th>
<th>Motor type</th>
<th>Drive type</th>
<th>Rumble</th>
<th>Wow/Flutter</th>
<th>Cueing</th>
<th>VTF</th>
<th>Antiskating</th>
<th>Resonance</th>
<th>Track. error</th>
<th>Features</th>
<th>Headshell</th>
<th>Changer</th>
<th>Price</th>
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<td>6601, $180</td>
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</tbody>
</table>

1980 Edition
## Weight mounted controls

### Features
- Resonance
- VTF
- Cueing
- Wow/Flutter
- Rumble
- VTF
- Track error
- Antiskating
- Weight
- Dimension
- Price

#### Models also available
- NAD-6040, $212. NAD-5020, $177

### Phase Linear

#### Phase Linear Corp.
- 20121 48th Ave. W.
- Lynnwood, Wash. 98036

#### PHILIPS

#### Philips High Fidelity Laboratories
- P.O. Box 2208
- Ft. Wayne, Ind. 46801

#### PIONEER

#### U.S. Pioneer Electronics Corp.
- 85 Oxford Drive
- Moonachie, N.J. 07074

#### OPTONICA

#### Sharp Electronics Corp.
- 10 Keystone Place
- Paramus, N.J. 07652

#### RP-7705

#### Price
- $400

#### Dimensions
- 4 3/10H x 18 9/10W x 15 1/10D

#### Weight
- 20 lbs.

#### Type
- Automatic repeat

#### Speed adj.
- +4%

#### Motor type
- DC servo with quartz-locked system

#### Drive type
- Direct

#### Rumble
- -70 dB

#### Wow/Flutter
- 0.03%

#### Cueing
- Yes

#### VTF
- 1 to 4 grams

#### Antiskating
- 1 to 4 grams

#### Resonance
- 8 Hz

#### Headshell
- Removable

#### Features
- APL-D (Auto program locate device) with separate sensor arm; auto record size sensor; separate arm motor; soft-touch front-mounted controls

#### RP 7505

#### Price
- $280

#### Dimensions
- 5 1/4H x 18 1/4W x 14 1/4D

#### Weight
- 20 lbs.

#### Type
- Fully automatic

#### Speed adj.
- +4%

#### Motor type
- Frequency-generator DC coreless

#### Drive type
- Direct

#### Rumble
- -70 dB (DIN B)

#### Wow/Flutter
- 0.03% (JIS)

#### VTF
- 1 to 4 grams

#### Antiskating
- 1 to 3 grams

#### Resonance
- 8 Hz

#### Features
- Metal-impregnated resin base

#### PHASE LINEAR

#### Phase Linear Corp.
- 20121 48th Ave. W.
- Lynnwood, Wash. 98036

#### 8000 Series Two

#### Price
- $749.95

#### Dimensions
- 6H x 19 2/5W x 17 1/5D

#### Weight
- 26 lbs. 8 oz.

#### Type
- Fully automatic, auto repeat, manual

#### Speeds
- 33 1/3; 45

#### Speed adj.
- +0.5%

#### Motor type
- DC (totally enclosed)

#### Drive type
- Direct quartz-locked PLL Hall effect

#### Rumble
- -78 dB (weighted per DIN B standard)

#### Wow/Flutter
- 0.013%

#### Cueing
- Yes

#### VTF
- 0 to 5 grams

#### Track error
- 0 degree

#### Headshell
- Removable

#### Features
- Linear motor; tangential tracking tonearm; speed deviation less than 0.002%; all controls accessible with dust cover closed

#### PHILIPS

#### Philips High Fidelity Laboratories
- P.O. Box 2208
- Ft. Wayne, Ind. 46801

#### AF-977

#### Price
- $300

#### Speeds
- 33 1/3; 45

#### Drive type
- Direct control

#### Wow/Flutter
- 0.02%

#### AF-829

#### Price
- $300

#### Speeds
- 33 1/3; 45

#### Wow/Flutter
- 0.03%

#### AF-877

#### Price
- $260

#### Dimensions
- 5 1/4H x 16 1/4W x 13 3/4D

#### Weight
- 13 lbs.

#### Type
- Semiautomatic

#### Speeds
- 33 1/3, 45

#### Speed adj.
- +3%

#### Motor type
- DC with closed-loop speed control

#### Drive type
- Direct control

#### Rumble
- 70 dB (DIN B)

#### Wow/Flutter
- 0.03% (WRMS)

#### Eff. arm mass
- 16.5 grams

#### Cueing
- Yes

#### VTF
- 0 to 3 grams

#### Antiskating
- 0 to 3 grams

#### Resonance
- 10 Hz (with test cartridge)
### Realistic

**Radio Shack**  
1400 One Tandy Center  
Ft. Worth, Texas 76102

**LAB-500**  
- **Price**: $259.95 (with cartridge)  
- **Dimensions**: 6½H x 18½W x 15 3/16D  
- **Type**: Automatic repeat  
- **Speeds**: 33 1/3, 45  
- **Motor type**: 12-pole brushless DC servo  
- **Drive type**: Direct  
- **Rumble**: -68 dB  
- **Wow/Flutter**: 0.04%  
- **Cueing**: Yes  
- **Headshell**: Removable  
- **Features**: Quartz-locked for 0.002% speed accuracy, 3.1 lbs. aluminum alloy die-cast platter  

**Models also available**  
- LAB-400, $200 (with cartridge); LAB-260, $139.95 (with arm)

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### Rega

**Import Audio**  
13430 Clayton Rd.  
St. Louis, Mo. 63131

**Planar 3**  
- **Price**: $360 (without arm); $485 (with arm)  
- **Dimensions**: 5H x 17⅜W x 14D  
- **Type**: Manual  
- **Motor type**: 24-pole synchronous  
- **Drive type**: Belt  
- **Rumble**: 0 to 3 grams  
- **Wow/Flutter**: 0.03% (DIN-weighted)  
- **Cueing**: Yes  
- **VTF**: 0 to 3 grams  
- **Features**: Precision-ground glass platter; includes base, dust cover, felt mat for records  

**Planar 2**  
- **Price**: $270 (without arm); $375 (with arm)  
- **Dimensions**: 4¼H x 17¼W x 14⅝D  
- **Type**: Manual  
- **Motor type**: 24-pole synchronous  
- **Drive type**: Belt  
- **Rumble**: 0 to 3 grams  
- **Wow/Flutter**: 0.03% (DIN-weighted)  
- **Cueing**: Yes  
- **VTF**: 0 to 3 grams  
- **Features**: Precision-ground glass platter; includes base, dust cover, rubber mat for records  

**Models also available**  
- RP-9400, $235; RP-6400, $200

---

### Sansui

**Sansui Electronics Corp.**  
1250 Valley Brook Ave.  
Lyndhurst, N.J. 07071

**XR-99**  
- **Price**: Not required  
- **Resonance**: 12 to 15 Hz (with Ortofon cartridge)  
- **Track. error**: 0.5 degree  
- **Headshell**: Not required  
- **Cueing**: No headshell used, due to true tangential-tracking design  
- **Features**: True tangential tracking with opto-electronic servo control; radical 4-cm tonearm has negligible mass; digital speed display  

**Models also available**  
- RP-4400, $235; RP-4400, $200
### High Fidelity's Buying Guide to Stereo Components

#### PLUS SERIES

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<tr>
<th>Model</th>
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<th>Speed adj.</th>
<th>Motor type</th>
<th>Drive type</th>
<th>Rumble</th>
<th>Wow/Flutter</th>
<th>Cueing</th>
<th>VTF</th>
<th>Anti-skating</th>
<th>Track error</th>
<th>Headshell</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUS Q-50</td>
<td>$299.95</td>
<td>61/4H x 17 1/4W x 15D</td>
<td>1200 W.</td>
<td>Fully automatic</td>
<td>33 1/3, 45</td>
<td>33 1/3, 45</td>
<td>20-pole, 30-slot brushless platter motor</td>
<td>Direct</td>
<td>Direct</td>
<td>0.025%</td>
<td>Yes</td>
<td>0 to 3 grams</td>
<td>Adjustable</td>
<td>±15 degrees</td>
<td>Removable</td>
<td>Electronic speed control; lateral counter-balance; stylus mirror</td>
</tr>
</tbody>
</table>

#### Models also available

- **PLUS Q-25**
  - Price: $179.95
  - Dimensions: 51/4H x 17 1/4W x 15D
  - Weight: 15 lbs.
  - Type: Semiautomatic
  - Speeds: 33 1/3, 45
  - Speed adj.: ±3%
  - Motor type: 20-pole, 30-slot brushless
  - Drive type: Direct
  - Rumble: -70 dB
  - Wow/Flutter: 0.03%
  - Cueing: Yes
  - VTF: 0 to 3 grams
  - Anti-skating: Adjustable; calibrated
  - Track error: ±15 degrees
  - Headshell: Removable
  - Features: Quartz PLL speed control; straight arm with ABS headshell, front panel controls; cue; reject; ultra low friction tonearm mounting; high density base; sealed rubber damped suspension

### Models also available

- **PLUS-1012/A**, $139.95
- **PLUS-Q-60**, $299.95
- **PLUS-Q-40**, $199.95

### SANYO

Sanyo Electric Inc.

**Consumer Electronics Div.**

1200 W. Artesia Blvd.

Compton, Calif. 90220

#### SANYO Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Speeds</th>
<th>Speed adj.</th>
<th>Motor type</th>
<th>Drive type</th>
<th>Rumble</th>
<th>Wow/Flutter</th>
<th>Cueing</th>
<th>VTF</th>
<th>Anti-skating</th>
<th>Track error</th>
<th>Headshell</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-97 XV</td>
<td>$260</td>
<td>51/4H x 17 1/4W x 15D</td>
<td>21 lbs.</td>
<td>Automatic repeat</td>
<td>33 1/3, 45</td>
<td>±3%</td>
<td>72-pole FG AC servomotor</td>
<td>Direct</td>
<td>Direct</td>
<td>0.03%</td>
<td>Yes</td>
<td>1 to 3 grams</td>
<td>15.6 grams</td>
<td>±3%</td>
<td>Removable</td>
<td>Quartz synthesizer speed lock with indicator; strobe light with adjustable speed control; record-size selector; spare headshell holder</td>
</tr>
</tbody>
</table>

### Models also available

- **PS-77XV**, $235
- **PS-67A**, $200
- **PS-17A**, $130

### SERIES 20

**Series 20**

20 Jewell St.

Moonachie, N.J. 07074

#### XXL-590

| Price    | $550      | Dimensions: 71/4H x 19 3/4W x 16D | 31 lbs. | Manual single-play | 33 1/3, 45   | ±6%        | 72-pole FG AC servomotor       | Direct     | Direct       | 0.03%       | Yes    | 1 to 3 grams | 15.6 grams   | ±3%         | Removable | Strobe light with adjustable speed control; record-size selector; spare headshell holder |

#### Models also available

- **PLC-590**, $495
- **PLUS-Q-60**, $495
- **PLUS-Q-40**, $199.95

### SONEX

Anglo American Audio

P.O. Box 653

Buffalo, N.Y. 14240

#### SX-100

| Price    | $395      | Dimensions: 5 2/5H x 17 3/10W x 13 3/5D | 19 lbs. | Manual single-play | 33 1/3, 45   | ±3%        | 72-pole FG AC servomotor       | Direct     | Direct       | 0.03%       | Yes    | 1 to 3 grams | 15.6 grams   | ±3%         | Removable | Strobe light with adjustable speed control; record-size selector; spare headshell holder |

#### Features

- **Quartz synthesizer speed lock with indicator; strobe light with adjustable speed control; record-size selector; spare headshell holder**
SONY
Sony Corp. of America
9 West 57th St.
New York, N.Y. 10019

PS-D80
Price $1,800
Dimensions 7 15/16 x 19 15/16W x 16 15/16D
Weight 33 lbs.
Type Fully automatic
Speeds 33 1/3, 45
Motor type DC
Drive type Direct
Rumble -78 db (weighted per DIN B standard)
Wow/Flutter 0.02% (weighted per WRMS standard)
Features Fully electronic 4 motor velocity feedback system with microprocessor control

PS-X70
Price $500
Dimensions 6 1/4 x 18 1/16 x 16 9/16D
Weight 28 lbs. 4 oz.
Type Fully automatic
Speeds 33 1/3, 45
Speed adj. +10%
Motor type DC
Drive type Direct
Rumble -75 db (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Features Viscous-filled rubber feet; acoustically dead base; thick rubber platter mat

PS-X40
Price $275
Dimensions 5 1/4H x 17 3/8W x 15 1/4D
Weight 17 lbs. 10 oz.
Type Fully automatic
Speeds 33 1/3, 45
Motor type DC
Drive type Direct
Rumble -73 db (weighted per DIN B standard)
Wow/Flutter 0.025% (weighted per WRMS standard)
Cueing Yes
Motor type Brushless/slotless DC servo
Drive type Direct
Rumble -70 db (DIN B)
Wow/Flutter 0.03% (WRMS)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Viscous-filled rubber feet; acoustically dead base; viscous-filled feet; safety clutch

PS-X5
Price $245
Type Automatic
Speed adj. Brushless/slotless quartz-controlled DC servo
Motor type Brushless/slotless quartz-controlled DC servo
Drive type Direct
Rumble -70 db (DIN B)
Wow/Flutter 0.04% (weighted per WRMS standard)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Viscous-filled rubber feet; acoustically dead base; thick rubber platter mat

PS-X5
Price $245
Type Automatic
Speed adj. Brushless/slotless quartz-controlled DC servo
Motor type Brushless/slotless quartz-controlled DC servo
Drive type Direct
Rumble -70 db (DIN B)
Wow/Flutter 0.04% (weighted per WRMS standard)
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Resonance 7 to 9 Hz
Features Viscous-filled rubber feet; acoustically dead base; thick rubber platter mat

SP-X1
Price $140
Dimensions 5 1/8H x 17 3/16W x 14 3/16D
Weight 11 lbs.
Type Semi-automatic
Speeds 33 1/3, 45
Speed adj. +4%
Motor type Brushless/slotless DC servo
Drive type Direct
Rumble -68 db (weighted per DIN B standard)
Wow/Flutter 0.04% (weighted per WRMS standard)
Cueing Yes
Motor type Brushless/slotless DC servo
Drive type Direct
Rumble -65 db (weighted per DIN B standard)
Wow/Flutter 0.03% (weighted per WRMS standard)
Cueing Yes
Headshell Removable
Features Front-mounted controls; gimbal support tonearm

TECHNICS
Panasonic Co.
1 Panasonic Way
Secaucus, N.J. 07094

SP-1C Mk II
Price $900
Dimensions 4 3/4H x 14 1/4W x 14 3/4D
Weight 21 lbs.
Type Manual
Speeds 33 1/3, 45
Speed adj. None
Motor type DC servo
Drive type Direct
Rumble 78 dB (DIN B)
Wow/Flutter 0.025% (WRMS)
Features Solid tonearm; builds up to full speed in 0.25 sec; stop time (dual braking) is 0.3 sec; remote control; separate power supply; overall speed accuracy of +0.002% (± 0.036 sec in ½ hour); high torque (5 kg cm or 4.3 lbs in)
### THORENS

**Elpa Marketing**

Thorens and Atlantic Aves.

New Hyde Park, N.Y. 11040

#### TD-126C Mk III

<table>
<thead>
<tr>
<th>Price</th>
<th>$825</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>6&quot;(\times)19(\frac{1}{4})W x 15(\frac{1}{2})D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Semiautomatic</td>
</tr>
<tr>
<td>Speeds</td>
<td>33 1/3, 45</td>
</tr>
<tr>
<td>Speed adj.</td>
<td>(\pm 6%)</td>
</tr>
<tr>
<td>Motor type</td>
<td>DC</td>
</tr>
<tr>
<td>Drive type</td>
<td>Belt</td>
</tr>
<tr>
<td>Rumble</td>
<td>0.05 dB (weighted per DIN standard)</td>
</tr>
<tr>
<td>Wow/Flutter</td>
<td>0.05 dB (weighted per DIN standard)</td>
</tr>
<tr>
<td>Eff. arm mass</td>
<td>7.5 grams</td>
</tr>
<tr>
<td>Cueing</td>
<td>Yes</td>
</tr>
<tr>
<td>VTF</td>
<td>0.5 to 3 grams</td>
</tr>
<tr>
<td>Antiskating</td>
<td>0.05 to 0.30 grams</td>
</tr>
<tr>
<td>Resonance</td>
<td>10 Hz (with Stanton 681EEE Cartridge)</td>
</tr>
<tr>
<td>Track. error</td>
<td>0.18 degree/cm radius</td>
</tr>
<tr>
<td>Headshell</td>
<td>Removable</td>
</tr>
<tr>
<td>Features</td>
<td>Automatic Pitch Control (APC) corrects turntable speed with change in head on turntable</td>
</tr>
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</table>

#### TD-115C

<table>
<thead>
<tr>
<th>Price</th>
<th>$450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>5(\times)17(\frac{1}{2})W x 14(\frac{1}{4})D</td>
</tr>
<tr>
<td>Weight</td>
<td>15 lbs. 8 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Semiautomatic</td>
</tr>
<tr>
<td>Speeds</td>
<td>33 1/3, 45</td>
</tr>
<tr>
<td>Speed adj.</td>
<td>(\pm 6%)</td>
</tr>
<tr>
<td>Motor type</td>
<td>DC</td>
</tr>
<tr>
<td>Drive type</td>
<td>Belt</td>
</tr>
<tr>
<td>Rumble</td>
<td>0.05 dB (weighted per DIN standard)</td>
</tr>
<tr>
<td>Wow/Flutter</td>
<td>0.05 dB (weighted per DIN standard)</td>
</tr>
<tr>
<td>Eff. arm mass</td>
<td>7.5 grams</td>
</tr>
<tr>
<td>Cueing</td>
<td>Yes</td>
</tr>
<tr>
<td>VTF</td>
<td>0.5 to 3 grams</td>
</tr>
<tr>
<td>Antiskating</td>
<td>0.05 to 0.30 grams</td>
</tr>
<tr>
<td>Resonance</td>
<td>10 Hz (with Stanton 681EEE Cartridge)</td>
</tr>
<tr>
<td>Track. error</td>
<td>0.18 degree/cm radius</td>
</tr>
<tr>
<td>Headshell</td>
<td>Removable</td>
</tr>
<tr>
<td>Features</td>
<td>Automatic Pitch Control (APC) corrects turntable speed with change in head on turntable</td>
</tr>
</tbody>
</table>

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**Models also available**

- SP-26, $400
- SL-1700 Mk.2, $350;
- SL-1200 Mk.2, $350;
- SL-1800 Mk.2, $300;
- SL-3350, $240;
- SL-20, $200;
- SL-B3, $150;
- SL-D1, $125;
- SL-B1, $100

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**High Fidelity’s Buying Guide to Stereo Components**

120
TD-104
Price $285
Dimensions 54 x 17 1/8W x 15 1/2D
Weight 12 lbs.
Type Manual
Speeds 33 1/3, 45
Speed adj. + 6%
Motor type DC
Drive type Belt
Rumble -66 dB (weighted per DIN standard)
Wow/Flutter 0.005% (weighted per DIN standard)
Eff. arm mass 7.5 grams
Cueing Yes
VTF
Antiskating 0.05 to 3.0 grams
Resonance 10 Hz (with Stanton 681EEE cartridge)
Track. error 0.18 degrees/cm in radius
Headshell Removable
Features Sensor touch button control

Models also available
TD-126B MK III, $675 (tonearm not included), TD-110, $360, TD-105, $350, TD-160B MK II, $295 (tonearm not included)

TOSHIBA
Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

SR-F770
Price $199.95
Dimensions 5 9/10H x 17 3/5W x 13 9/10D
Weight 16 lbs. 2 oz.
Type Fully automatic
Speeds 33 1/3, 45
Speed adj. + 3%
Motor type DC servo
Drive type Direct
Rumble -70 dB
Wow/Flutter 0.026%
Cueing Yes

SR-F451
Price $149.95
Dimensions 5 1/2H x 16 3/5W x 14 1/10D
Weight 12 lbs. 2 oz.
Type Fully automatic
Speeds 33 1/3, 45
Speed adj. + 3%
Motor type DC servo
Drive type Belt
Rumble -65 dB

SR-A272
Price $144.95
Dimensions 5 7/10H x 17 3/5W x 14 1/10D
Weight 13 lbs. 3 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type 4-pole synchronous
Drive type Belt
Rumble -65 dB
Cueing Yes

Models also available
SR-FX70, $299.95, SR-F452, $179.95, SR-F450, $149.95, SR-A270, $114.95

TRANSCRIBER
Hortley Products Corp.
620 Island Road
Ramsey, N.J. 07446

Transcriber
Price $779
Dimensions 6 1/4" x 21 1/4W x 14 3/4D
Weight 37 lbs.
Type Manual
Speeds 33 1/3, 45
Speed adj. None
Motor type DC servo
Drive type Belt
Rumble -65 dB (weighted per DIN standard)
Wow/Flutter 0.05% (weighted per DIN standard)
Eff. arm mass 13.4 grams
Cueing Yes
VTF 0.1 to 0.5 grams
Track. error 0.1 degree
Headshell Removable
Features With Ortofon cartridge, transversal moving platter; all glass housing

VISONIK HI FI
Visonic of America
701 Heinz Ave.
Berkeley, Calif. 94710

VT-9300
Price $400
Dimensions 5 1/4H x 17 1/4W x 14 1/4D
Weight 23 lbs.
Type Fully automatic
Speeds 33 1/3, 45
Motor type Quartz-locked servo
Drive type Direct
Rumble -75 dB (weighted per DIN standard)
Wow/Flutter 0.016% (weighted per DIN standard)
Cueing Yes
VTF 0 to 2.5 grams
Antiskating 0 to 2.5 grams
Track. error 0.016 degrees
Headshell Removable
Features Low mass straight tonearm

VT-7300
Price $250
Dimensions 5 1/4H x 17 1/4W x 14 1/4D
Weight 17 lbs. 9 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Speed adj. ± 4%
Motor type DC servo
Drive type Belt
Rumble -68 dB (weighted per DIN standard)
Wow/Flutter 0.006% (weighted per DIN standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 0.015 degree
Headshell Removable
Features Low mass straight tonearm

VT-3300
Price $155
Dimensions 5 1/4H x 17 1/4W x 14 1/4D
Weight 14 lbs. 6 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type Hysteresis synchronous
Drive type Belt
Rumble -65 dB (weighted per DIN standard)
Wow/Flutter 0.00% (weighted per DIN standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating 0 to 3 grams
Track. error 0.016 degree
Headshell Removable
Features Low mass straight tonearm

Models also available
VT-8300, $300; VT-5300, $215

YAMAHA
Yamaha International Corp.
6600 Orangethorpe Ave.
Buena Park, Calif. 90620

YP-D10
Price $670
Dimensions 54 x 18 1/8W x 14 1/3D
Weight 35 lbs.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type 12-pole 24-slot Hall-effect DC servo
Drive type Direct
Wow/Flutter 0.03%
Cueing Oil damped
Headshell Removable
Features Double FG/quartz PLL servosystems; opto-electrical Silent Ending System

YP-D71
Price $330
Dimensions 6 1/10H x 18 1/8W x 14 1/3D
Weight 24 lbs. 4 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type Coreless quartz-locked Hall
Drive type Direct
Wow/Flutter 0.025% (weighted per WRMS standard), ± 0.035% peak (weighted per IEC 98A)
Cueing Yes
Antiskating Yes
Track. error ± 2 degrees, 30 min; ±1 degree
Headshell Removable
Features High sensitivity gimbal support tonearm; opto-electronic auto stop mechanism

YP-D4
Price $230
Dimensions 51/8H x 17 1/8W x 14 3/16D
Weight 17 lbs. 10 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type Coreless Hall motor
Drive type Direct
Wow/Flutter ± 0.055% (weighted per IEC 98A standard)
Cueing Yes
VTF 0 to 3 grams
Antiskating Yes
Resonance -10 Hz
Headshell Removable

YP-B2
Price $140
Dimensions 51/8H x 17 1/8W x 14 1/4D
Weight 13 lbs. 3 oz.
Type Semiautomatic
Speeds 33 1/3, 45
Motor type 4-pole synchronous
Drive type Belt
Wow/Flutter 0.06% (weighted per A standard)
Cueing Yes
VTF 0.5 to 3 grams
Antiskating 0.5 to 3 grams
Headshell Removable
Features Auto return; antiskate dial; S-shaped tonearm

Models also available
YP-D8, $440; YP-B4, $180

A Note on Prices
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.
Tape Equipment

Open-Reel Recorders

AKAI
Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

PRO-1000

Price $1,995
Reel size 10"+
Format 2, 4-track/2-channel playback; 2-track/2-channel recording
Heads 4
Speeds 15; 7½; 3¼
Flutter 0.025% (WRMS) (15); 0.04% (WRMS) (7½); 0.08% (WRMS) (3¼)
Fast-forward 120 sec (1,800')
Rewind 120 sec (1,800')
Noise red. None
Input sens. 70 mV (line); 20K ohms (mixer)
Output level 775 mV
Impedance 10K ohms (line); less than 1K ohms (mixer)
Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU; peak and bias reading (-20 dB to +5 dB)
Features Servomotor; direct capstan drive; record mute control; mixer controls; timer start

TX-4000DB

Price $500
Reel size 7"+
Format 4-track/2-channel; stereo/mono
Heads 6
Speeds 7½; 3¼
Flutter 0.04% (WRMS) (7½); 0.06% (WRMS) (3¼)
Fast-forward 120 sec (2,400')
Rewind 120 sec (2,400')
Noise red. None
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 775 mV
Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU
Features Recording in two directions; 3-motor direct-capstan-drive system; record mute control; mixer controls
Tape #1 Akai LN-150-7
R/P resp. 30 Hz to 25 kHz, ±3 dB (7½); 30 Hz to 19 kHz, ±3 dB (3¼)
THD 0.5% (7½)

GX-270DSS

Price $1,050
Reel size 7"+
Format 4-track/4- or 2-channel
Heads 4
Speeds 7½; 3¼
Flutter 0.07% (WRMS) (7½); 0.1% (WRMS) (3¼)
Fast-forward 75 sec (1,200')
Rewind 75 sec (1,200')
Noise red. None
Input sens. 70 mV (line); 0.3 mV (mic)
Output level 775 mV
Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU
Features AC servo direct-capstan system; direct-function; remote control

GX-270DSS

Price $1,995
Reel size 10"+
Format 4-track/2-channel playback; 2-track/2-channel recording
Heads 4
Speeds 15; 7½; 3¼
Flutter 0.025% (WRMS) (15); 0.04% (WRMS) (7½); 0.08% (WRMS) (3¼)
Fast-forward 120 sec (1,800')
Rewind 120 sec (1,800')
Noise red. None
Input sens. 70 mV (line); 20K ohms (mixer)
Output level 775 mV
Impedance 10K ohms (line); less than 1K ohms (mixer)
Min. load 20K ohms
Erasure 70 dB (1 kHz)
Meters 2 VU; peak and bias reading (-20 dB to +5 dB)
Features Servomotor; direct capstan drive; double capstan; pan-pot mixing

GX-267D

Price $850
Reel size 7"+
Format 4-track/2-channel; stereo/mono
Heads 6
Speeds 7½; 3¼
Flutter 0.04% (WRMS) (7½); 0.06% (WRMS) (3¼)
Fast-forward 120 sec (2,400')
Rewind 120 sec (2,400')
Noise red. None
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 775 mV
Min. load 20K ohms
Erasure 70 dB (1 Hz)
Meters 2 VU
Features Recording in two directions; 3-motor direct-capstan-drive system; record mute control; mixer controls
Tape #1 Akai LN-150-7
R/P resp. 30 Hz to 25 kHz, ±3 dB (7½); 30 Hz to 19 kHz, ±3 dB (3¼)
THD 0.5% (7½)

Models also available

GX-6500, $1,295; GX-6350, $995; GX-620, $725; GX-4000DB, $500; GX-4000D, $400

GRUNDIG
LAS Electronics East, Inc.
85C Saratoga Blvd.
Island Park, N.Y. 11558

TS-1000

Price $1,680

NAGRA
Nagra Magnetic Recorders, Inc.
19 W. 44th St.
New York, N.Y. 10036

High Fidelity's Buying Guide to Stereo Components
IV SD
Price $5,750
Reel size 7" (10½" with QGB)
Format 2-track/2-channel
Heads 3
S/N 1% (15); 1% (7½); 0.05% (3¼) (NAB)
Fast-forward 120 sec (900')
Rewind 120 sec (900')
Input sens. 7.8 micro-amps (line), 0.28 mV (mic)
Output level 1,000 mV
Impedance 200 ohms
Min. load 600 ohms
Separation 60 dB (1 kHz)
Erasure 600 mV (1 kHz)
Meters Peak-reading

NEAL-FERROGRAPH
NEAL-Ferrograph
652 Glenbrook Rd.
Glenbrook, Conn. 06906

Logic 7
Price $1,950
Reel size 10½
Format 2,4 track/2 channel
Heads 3 super permalloy
Speeds 3¼, 7½, 15
Flutter 0.08% at 15 ips, 0.10% at 7½ ips, 0.17% at 3¼ ips
Play resp. 20 Hz to 20 kHz, ± 1 dB at 15 ips; 20 Hz to 18 kHz, ± 2 dB at 7½ ips; 30 Hz to 15 kHz, ± 2 dB at 3¼ ips
Fast-forward 120 sec (1,800')
Rewind 120 sec (1,800')
Noise red. Dolby
Input sens. 50 mV-7V mV (line); 200 uV-50 mV (mic)
Output level 2V at 600 ohms; low level: 300 mV into 10K or greater, loudspeakers: up to 10 watts rms into 8 to 16 ohms
Separation 59 dB at 1 kHz (stereo); 65 dB at 1 kHz (mono)
Erasure 70 dB at 1 kHz
Meters 2 VU - 30 dB to +43 dB
Features Units available in quarter- or half-track, with or without Dolby, with or without built-in amp and loudspeakers; variable wind control; record-cancel allows user to go into or out of record while deck is in play mode; bass and treble controls
Tape #1 TDK Audac, Ampex 456
R/P resp. 50 Hz to 20 kHz, ± 2 dB at 15 ips; 50 Hz to 17 kHz, ± 2 dB at 7½ ips; 50 Hz to 14 kHz, ± 2 dB at 3¼ ips
S/N -60 dB at 2% distortion
THD noise reduction
THD ref. lvl. O VU

Output level 1,250 mV
Impedance 600 ohms
Min. load 600 ohms
Separation 60 dB (1 kHz)
Erasure 70 dB (1 kHz)
Meters 2 VU (-20 dB to +3 dB)
Features Servo capstan; variable speed (+ 7½%; selective reproduce; minutes/seconds counter, edit & cue modes; motion-sense logic; XLR connectors; separate electronics on plug-in cards; test oscillator
Tape #1 Ampex 456, 3M 250, or equivalent
R/P resp. 50 Hz to 20 kHz, ± 2 dB (15); 30 Hz to 18 kHz, ± 2 dB (7½)
S/N 68 dB (15), 68 dB (7½)
S/N ref. lvl. 520 nW/m²
THD 1% at 7½; 1% at 15
THD ref. lvl. 185 nW/m²

Models also available
MX-5050-QXHD, $2,845; MX-5050-B, $1,945

PHILIPS
Philips High Fidelity Laboratories
P.O. Box 2208
Fort Wayne, Ind. 46801

N-4506
Price $690
Reel size 7½
Format 4-track/2-channel
Heads 3 (hardened permalloy)
Speeds 7½; 3½; 1½
Flutter 0.05% (7½); 0.07% (3½); 0.20% (1½) (WRMS)
Play resp. 35 Hz to 26 kHz, ± 3 dB (7½); 35 Hz to 20 kHz, ± 3 dB (3½), 35 Hz to 11.5 kHz, ± 3 dB (1½)
Fast-forward 180 sec (1,800')
Rewind 180 sec (1,800')
Noise red. Dynamic Noise Limiting (DNL)
Input sens. 100 mV (line); 0.2 mV (mic)
Output level 250 mV
Meters Peak-reading (-20 dB to +3 dB)
Features Tacho-control capstan motor; 3 motors; direct-drive DC; DNL, A-B monitor; solenoid controls; headphone amp; sound-on-sound; sound-midgrid; LED overload indicators; cueing; variable speed wind and rewind; adjustable outputs

Models also available
N-4504 Open-Reel Deck, $480

PIONEER
U.S. Pioneer Electronics Corp.
75 Oxford Drive
Moonachie, N.J. 07074
THD ref. WI.0 dB (NAB)

THD 0.8% (15); 1% (71/2)

Tape *1

Registration selectors; built-in tape oscillator; remote
changeable head unit (4 ch/2 ch); bias and equali-
cation selectors; built-in tape oscillator, remote
control, logic protection

Tape #1 Scotch 206

R/P resp. 30 Hz to 28 kHz, ±3 dB (15); 40 Hz
to 20 kHz, ±3 dB (71/2)

S/N 55 dB (15)

S/N ref. l/v. +6 dB (NAB)

THD 0.8% (15); 1% (71/2)

THD ref. l/v. 0 dB (NAB)

RT-2044

Price $2,010

Reel size 10½'

Format 4-track

Heads 3 (1 ferrite, 2 permalloy)

Speeds 7½; 15

Flutter 0.04% (WRMS) (15); 0.08% (WRMS) (71/2)

Fast-forward 110 sec (2,400')

Rewind 110 sec (2,400')

Input sens. 34 mV (line), 0.1 mV (mic)

Output level 450 mV to 930 mV into 50K-ohm load

Separation 50 dB (1 kHz)

Meters 2 VU; peak-reading LEDs (-24 dB to +6 dB)

Features Two 6-pole inner rotor induction

reel motors; one 4/8 pole hysterisis synchronous

capstan multi-mixing facilities; metered playback,

changeable head unit (4 ch/2 ch); bias and equali-

zation selectors; built-in tape oscillator, remote

control, logic protection

Teac Corp. of America

1733 Telegraph Rd.

Montebello, Calif. 90640

80-8

Price $3,990

Reel size 10½'

Format 1½-inch channel multitrack

Heads 3 (2 permalloy R/P, 1 ferrite erase)

Speeds 15

Flutter 0.04% (WRMS)

R/P play 40 Hz to 18 kHz, ±3 dB

Fast-forward 120 sec (2,500')

Rewind 120 sec (2,500')

Noise red. Optional dbx

Input sens. 100 mV (line); 0.25 mV (mic)

Output level 300 mV

Impedance 10K ohms

Min. load 5K ohms

Separation 45 dB (1 kHz)

Erasure 68 dB (1kHz)

Meters 2 VU; peak-reading LEDs (-20 dB to +3 dB)

Features Three motors (1 belt-drive cap-

stan); solenoid-control transport; optional remote/-

manual cue control

TEAC

Teac Corp. of America

7733 Telegraph Rd.

Montebello, Calif. 90640

80-8

Price $3,990

Reel size 10½'

Format 1½-inch channel multitrack

Heads 3 (2 permalloy R/P, 1 ferrite erase)

Speeds 15

Flutter 0.04% (WRMS)

R/P play 40 Hz to 18 kHz, ±3 dB

Fast-forward 120 sec (2,500')

Rewind 120 sec (2,500')

Noise red. Optional dbx

Input sens. 100 mV (line); 0.25 mV (mic)

Output level 300 mV

Impedance 10K ohms

Min. load 5K ohms

Separation 45 dB (1 kHz)

Erasure 68 dB (1kHz)

Meters 2 VU; peak-reading LEDs (-20 dB to +3 dB)

Features Three motors (1 belt-drive cap-

stan); solenoid-control transport; optional remote/-

manual cue control

TEAC

Teac Corp. of America

7733 Telegraph Rd.

Montebello, Calif. 90640
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A-6100 MK II</strong></td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$1,400</td>
</tr>
<tr>
<td>Reel size</td>
<td>10½˝</td>
</tr>
<tr>
<td>Format</td>
<td>4-track/2-channel</td>
</tr>
<tr>
<td>Heads</td>
<td>4 (permalloy)</td>
</tr>
<tr>
<td>Speeds</td>
<td>7½; 3½</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.03% (15); 0.06% (7½)</td>
</tr>
<tr>
<td>Play resp.</td>
<td>40 Hz to 22 kHz, ±3 dB (15); 40 Hz to 18 kHz, ±3 dB (7½)</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>140 sec (1,800’)</td>
</tr>
<tr>
<td>Rewind</td>
<td>140 sec (1,800’)</td>
</tr>
<tr>
<td>Input sens.</td>
<td>600 mV (line); 0.25 mV (mic)</td>
</tr>
<tr>
<td>Output level</td>
<td>450 mV</td>
</tr>
<tr>
<td>Impedance</td>
<td>10K ohms</td>
</tr>
<tr>
<td>Separation</td>
<td>50 dB (1 kHz)</td>
</tr>
<tr>
<td>Erasure</td>
<td>68 dB (1 kHz)</td>
</tr>
<tr>
<td>Heads</td>
<td>2 VU; peak-reading LEDs (~20 dB to ~3 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Three motors (belt-drive capstan); 2-mic/2-line mixing; solenoid-control transport; optional remote/manual cue control</td>
</tr>
<tr>
<td><strong>Tape #1</strong></td>
<td>Maxell UD</td>
</tr>
<tr>
<td><strong>R/P resp.</strong></td>
<td>30 Hz to 22 kHz, ±3 dB (15); 30 Hz to 20 kHz, ±3 dB (7½)</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>67 dB (15) without noise reduction</td>
</tr>
<tr>
<td><strong>S/N ref. lvl.</strong></td>
<td>9 dB over 185 nWb/m (IEC)</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>1% (15)</td>
</tr>
<tr>
<td><strong>THD ref. lvl.</strong></td>
<td>185 nWb/m</td>
</tr>
<tr>
<td><strong>Output level</strong></td>
<td>2 VU (±20 dB to ±3 dB)</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Three DC motors; dual capstan closed-loop transport</td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>$700</td>
</tr>
<tr>
<td><strong>Model</strong></td>
<td>X-7</td>
</tr>
<tr>
<td><strong>Output level</strong></td>
<td>450 mV</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>10K ohms</td>
</tr>
<tr>
<td><strong>Min. load</strong></td>
<td>5K ohms</td>
</tr>
<tr>
<td><strong>Meters</strong></td>
<td>2 VU (~20 dB to ±3 dB)</td>
</tr>
<tr>
<td><strong>Input sens.</strong></td>
<td>60 mV (line); 0.25 mV (mic)</td>
</tr>
<tr>
<td><strong>Fast-forward</strong></td>
<td>140 sec (1,800’)</td>
</tr>
<tr>
<td><strong>Play resp.</strong></td>
<td>30 Hz to 28 kHz</td>
</tr>
<tr>
<td><strong>R/P resp.</strong></td>
<td>30 Hz to 28 kHz; +3 dB (3½); 40 Hz to 20 kHz, ±3 dB (7½)</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.8%</td>
</tr>
<tr>
<td><strong>THD ref. lvl.</strong></td>
<td>185 nWb/m</td>
</tr>
<tr>
<td><strong>Models also available</strong></td>
<td>35-2; $1,900; A-3440; $1,600; A-6600; $1,575; A-23450SX; $1,175; X-10; $1,000; X-7R; $800</td>
</tr>
<tr>
<td><strong>TECHNICS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Panasonic Co.</strong></td>
<td>One Panasonic Way</td>
</tr>
<tr>
<td><strong>Secaucus, N.J.</strong></td>
<td>07094</td>
</tr>
<tr>
<td><strong>RS-1520</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>$2,000</td>
</tr>
<tr>
<td><strong>Reel size</strong></td>
<td>10½˝</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>2-track/2-channel</td>
</tr>
<tr>
<td><strong>Speeds</strong></td>
<td>7½; 3½</td>
</tr>
<tr>
<td><strong>Flutter</strong></td>
<td>0.018% (15); 0.03% (7½); 0.06% (3¾) (WRMS) (JIS)</td>
</tr>
<tr>
<td><strong>Play resp.</strong></td>
<td>30 Hz to 30 kHz; ±3 dB (15); 20 Hz to 25 kHz, ±3 dB (7½); 20 Hz to 15 kHz, ±3 dB (3¾)</td>
</tr>
<tr>
<td><strong>Fast-forward</strong></td>
<td>150 sec (2,500’)</td>
</tr>
<tr>
<td><strong>Rewind</strong></td>
<td>150 sec (2,500’)</td>
</tr>
<tr>
<td><strong>Input sens.</strong></td>
<td>60 mV (line); 0.25 mV (mic)</td>
</tr>
<tr>
<td><strong>Output level</strong></td>
<td>775 mV</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>3K ohms</td>
</tr>
<tr>
<td><strong>Min. load</strong></td>
<td>22K ohms</td>
</tr>
<tr>
<td><strong>Erasure</strong></td>
<td>65 dB (1 kHz)</td>
</tr>
<tr>
<td><strong>Meters</strong></td>
<td>2 VU</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Three-motor, quartz-lockered isolated-loop direct drive; auto reverse; tape-tension control; IC logic control</td>
</tr>
<tr>
<td><strong>Tape #1</strong></td>
<td>Scotch 207</td>
</tr>
<tr>
<td><strong>R/P resp.</strong></td>
<td>30 Hz to 30 kHz; ±3 dB (15); 20 Hz to 25 kHz, ±3 dB (7½); 20 Hz to 15 kHz, ±3 dB (3¾)</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>66 dB (15); 66 dB (7½); 64 dB (3¾)</td>
</tr>
<tr>
<td><strong>S/N ref. lvl.</strong></td>
<td>3%</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.8% (15); 0.8% (7½); 0.8% (3¾)</td>
</tr>
<tr>
<td><strong>THD ref. lvl.</strong></td>
<td>0 VU</td>
</tr>
<tr>
<td><strong>RS-1506</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>$1,500</td>
</tr>
<tr>
<td><strong>Reel size</strong></td>
<td>10½˝</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>4-track/2-channel</td>
</tr>
<tr>
<td><strong>Speeds</strong></td>
<td>15; 7½; 3¼</td>
</tr>
<tr>
<td><strong>Flutter</strong></td>
<td>0.018% (15); 0.03% (7½); 0.06% (3¾) (WRMS) (JIS)</td>
</tr>
<tr>
<td><strong>Play resp.</strong></td>
<td>30 Hz to 30 kHz; ±3 dB (15); 20 Hz to 25 kHz, ±3 dB (7½); 20 Hz to 15 kHz, ±3 dB (3¾)</td>
</tr>
<tr>
<td><strong>Fast-forward</strong></td>
<td>150 sec (2,500’)</td>
</tr>
<tr>
<td><strong>Rewind</strong></td>
<td>150 sec (2,500’)</td>
</tr>
<tr>
<td><strong>Input sens.</strong></td>
<td>60 mV (line); 0.25 mV (mic)</td>
</tr>
<tr>
<td><strong>Output level</strong></td>
<td>775 mV</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>3K ohms</td>
</tr>
<tr>
<td><strong>Min. load</strong></td>
<td>22K ohms</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>66 dB (15); 66 dB (7½); 64 dB (3¾)</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.8% (15); 0.8% (7½); 0.8% (3¾)</td>
</tr>
<tr>
<td><strong>THD ref. lvl.</strong></td>
<td>0 VU</td>
</tr>
<tr>
<td><strong>Models also available</strong></td>
<td>RS-1500US; $1,500</td>
</tr>
<tr>
<td><strong>UHER</strong></td>
<td>Mineor Electronics, Inc.</td>
</tr>
<tr>
<td><strong>946 Downing Road</strong></td>
<td>Valley Stream, N.Y. 11580</td>
</tr>
<tr>
<td><strong>SG-631</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>$1,800</td>
</tr>
<tr>
<td><strong>Reel size</strong></td>
<td>10½˝</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>2 or 4 track/2-channel</td>
</tr>
<tr>
<td><strong>Speeds</strong></td>
<td>3½; 1½</td>
</tr>
<tr>
<td><strong>Flutter</strong></td>
<td>0.05% at 7½ ips; 0.1% at 3¾ ips; 0.2% at 1½ ips</td>
</tr>
<tr>
<td><strong>Play resp.</strong></td>
<td>20 Hz to 25 kHz; ±2 dB at 7½ ips; 20 Hz to 16 kHz, ±2 dB at 3¾ ips; 20 Hz to 12.5 kHz, ±2 dB at 1½ ips</td>
</tr>
<tr>
<td><strong>Fast-forward</strong></td>
<td>120 sec (4,200’)</td>
</tr>
<tr>
<td><strong>Rewind</strong></td>
<td>120 sec (4,200’)</td>
</tr>
<tr>
<td><strong>Input sens.</strong></td>
<td>80 mV (line); 0.1 mV (mic)</td>
</tr>
<tr>
<td><strong>Output level</strong></td>
<td>750 mV</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>15K ohms</td>
</tr>
<tr>
<td><strong>Meters</strong></td>
<td>2 peak reading</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>4-motor Omega drive system; slide and movie sync; interchangeable head assembly</td>
</tr>
<tr>
<td><strong>Tape #1</strong></td>
<td>Scotch 207</td>
</tr>
<tr>
<td><strong>R/P resp.</strong></td>
<td>30 Hz to 30 kHz; ±3 dB (15); 20 Hz to 25 kHz, ±3 dB (7½); 20 Hz to 15 kHz, ±3 dB (3¾)</td>
</tr>
<tr>
<td><strong>S/N</strong></td>
<td>66 dB (15); 66 dB (7½); 64 dB (3¾)</td>
</tr>
<tr>
<td><strong>S/N ref. lvl.</strong></td>
<td>3%</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>0.8% (15); 0.8% (7½); 0.8% (3¾)</td>
</tr>
<tr>
<td><strong>THD ref. lvl.</strong></td>
<td>0 VU</td>
</tr>
<tr>
<td><strong>Models also available</strong></td>
<td>RS-1500US; $1,500</td>
</tr>
</tbody>
</table>
Cassette Recorders

AIWA
Aiwa America, Inc.
35 Oxford Drive
Moonachie, N.J. 07074

AD-6900 II
Price $1,000
Heads 3 (ferite; V-cut)
Flutter 0.04
Fast-forward 65 sec (C-60)
Rewind 65 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.25 mV (mic); 0.25 mV (mframe)
Output level 410 mV
Impedance 50K ohms
Meters 2 VU; peak reading (double needle) (-20 dB to +6 dB) (VU); -40 dB to +12 dB (peak)
Features Metal-tape capability; Dolby calibration tone; wireless remote; cue and review; flat response tuning system

AD-6700U
Price $750
Heads 2 (Sendust)
Flutter 0.04
Fast-forward 65 sec (C-60)
Rewind 65 sec (C-90)
Noise red. Dolby
Input sens. 50 mV (line); 0.25 mV (mic)
Output level 410 mV
Impedance 50K ohms
Meters VU; peak reading LED
Features Standard wireless remote control; metal tape compatibility; cue and review; continuous auto repeat; 9-point peak indicator; remaining tape time meter; peak hold

AD-L40U
Price $490
Heads 2 (Sendust)
Flutter 0.04
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic)
Output level 410 mV
Impedance 50K ohms
Meters 2 VU
Features DC oil-damped cassette ejection; independent 3-step bias and EQ (FeCr; Co-Cr, L-H); automatic stop; cue and review; slant design; LH bias fine adjustment

AD-6550
Price $450
Heads 2 (ferite)

Models also available
AD-6350
Price $230
Heads 2 (Ultra hard permalloy)
Flutter 0.08% (WRMS)
Fast-forward 90 sec (C-60)
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic); 0.1 mV (DIN)
Output level 775 mV
Impedance 50K ohms
Erasure 60 dB at 400 Hz
Meters 2-step peak-reading LEDs
Features Cue and review; record mute; LH bias fine adjuster

AD-1260
Price $260
Heads 2 (Ultra hard permalloy)
Flutter 0.08% (WRMS)
Fast-forward 85 sec (C-60)
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 50 mV (line); 0.3 mV (mic); 0.1 mV (DIN)
Output level 775 mV
Impedance 50K ohms
Separation 40 dB at 1 kHz
Erasure 65 dB at 1 kHz
Meters 2 VU
Features DC oil-damped cassette ejection; independent 3-step bias and EQ (FeCr; Co-Cr, L-H); automatic stop; cue and review; slant design; LH bias fine adjustment

CS-732D
Price $350
Heads 2 (SP, 2 Erase)
Flutter 0.06%
Fast-forward 90 sec (C-60) (length)
Rewind 90 sec (C-60) (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 2 mV (DIN)
Output level 410 mV
Min. load 20 ohms
Erasure 65 dB at 1 kHz
Meters 2 VU; peak-reading amp (-20 dB to +45 dB)
Features Bidirectional record/play

GXC-735D
Price $500
Heads 3, Type 1 r/p., 1 Super GX Combo
Flutter 0.046
Fast-forward 60 seconds for C-60 (length)
Rewind 60 seconds for C-60 (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 0.25 mV (DIN)
Output level 410 mV

Models also available
AD-6800, $550; AD-6600, $490; AD-M2000U, $260; SD-222U, $260; AD-M1000U, $210

AKAI
Akai America, Ltd.
2139 E. Del Amo Blvd.
P.O. Box 6010
Compton, Calif. 90224

GXC-F80
Price $495
Heads 3, Type 1 r/p.; 1 Super GX Combo
Monitoring: 1 Erase
Flutter 0.035 (WRMS)
Fast-forward 60 seconds for C-60 length
Rewind 60 seconds for C-60 length
Noise red. Dolby
Input sens. 70 mV (line), 0.3 mV (mic); 2 mV (DIN)
Output level 410 mV
Min. load 20 ohms

CS-732D
Price $350
Heads 3 (SP, 2 Erase)
Flutter 0.06%
Fast-forward 90 sec (C-60) (length)
Rewind 90 sec (C-60) (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 2 mV (DIN)
Output level 410 mV
Min. load 20 ohms
Erasure 65 dB at 1 kHz
Meters 2 VU; peak-reading amp (-20 dB to +45 dB)
Features Bidirectional record/play

GXC-735D
Price $500
Heads 3, Type 1 r/p., 1 Super GX Combo
Flutter 0.046
Fast-forward 60 seconds for C-60 (length)
Rewind 60 seconds for C-60 (length)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic); 0.25 mV (DIN)
Output level 410 mV

Min. load 20 ohms

High Fidelity's Buying Guide to Stereo Components
Models also available
GX-F90, $595; GX-M50, $375; GX-706D, $300

BANG & OLUFSEN
Bang & Olufsen of America
515 Busse Road
Elk Grove Village, Ill. 60007

Beocord 5000
Price $695
Heads 2 (nitrite-hardened Sendust)
Flutter 0.1% (with PRO control)
Play resp. 30 Hz to 16 kHz
Fast-forward 60 sec (C-60)
Rewind 60 sec (C-60)
Noise red. Dolby
Input sens. 200 mV (line); 30 mV (mic)
Output level 2K mV
Impedance 200 ohms
(1%)
Dolby
0.07% (0.03% at 33 1/3)
30 Hz to 18 kHz ±3 dB (33 1/3); 20 Hz to 21 kHz ±3 dB (1%)
THD 1.3% (A-weighted)
S/N ref. 62 dB (w/o NR); 54 dB (w/o NR)
R/P resp. 85 seconds for C-60 (length)
Tape #1 TDK SA
R/P resp. 30 Hz to 16 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
Tape #2 TDK AD
R/P resp. 30 Hz to 17 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
THD 1.5% (A-weighted)
Tape #3 TDK SA
R/P resp. 30 Hz to 16 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
Tape #4 TDK AD
R/P resp. 30 Hz to 17 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
THD 1.5% (A-weighted)

T-3 Two-Speed Deck
Price $530
Heads 3 (hard ferrite)
Flutter 0.05% (0.03% at 33 1/3)
Fast-forward 48 sec (C-60)
Rewind 48 sec (C-60)
Noise red. Dolby
Input sens. 200 mV (line); 30 mV (mic)
Output level 2K mV
Impedance 200 ohms
(1%)
Dolby
0.07% (0.03% at 33 1/3)
30 Hz to 18 kHz ±3 dB (33 1/3); 20 Hz to 21 kHz ±3 dB (1%)
THD 1.3% (A-weighted)
S/N ref. 62 dB (w/o NR); 54 dB (w/o NR)
R/P resp. 85 seconds for C-60 (length)
Tape #1 TDK SA
R/P resp. 30 Hz to 16 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
Tape #2 TDK AD
R/P resp. 30 Hz to 17 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
THD 1.5% (A-weighted)
Tape #3 TDK SA
R/P resp. 30 Hz to 16 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
Tape #4 TDK AD
R/P resp. 30 Hz to 17 kHz; ±3 dB
S/N 62 dB (w/o NR); 54 dB (w/o NR)
S/N ref. lvt. 3% (A-weighted)
THD 1.5% (A-weighted)

Models also available
CS-703D, $200; T-2 Two-Speed Deck, $350; T-3 Two-Speed Deck, $299.95

BIGSTON
Bigston Corp.
85 Gordon St.
Elk Grove Village, Ill. 60007

BSD-400
Price $249
Heads 2 (metalloy)
Flutter 0.07% (WRMS)
Play resp. 30 Hz to 16 kHz; ±3 dB
Fast-forward 75 sec (C-60)
Rewind 75 sec (C-60)
Noise red. Dolby
Input sens. 250 mV (line); 0.2 mV (mic)
Output level 580 mV
Impedance 220 ohms
Separation 35 dB (1 kHz)
THD 65 dB (1 kHz)
Meters 2 VU (30-20 dB to +3 dB)
Features DC with electric governor; LED peak indicators; vertical cassette slot loading; memory overflow; auto playback; cue and review; separate record and playback level controls; separate bias and equalization controls; 3-position tape selector; mic mixing; 1/4'' stereo headphone jack
Tape #1 TDK-SD
R/P resp. 30 Hz to 16 kHz; ±3 dB
S/N 62 dB/54 dB
S/N ref. lvt. 0.5V
THD 1.5%
<table>
<thead>
<tr>
<th>THD ref. lvl.</th>
<th>0.5V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape #2</td>
<td>TDK-SA</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 15 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>52 dB/58 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>0.5V</td>
</tr>
<tr>
<td>THD</td>
<td>1.5%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0.5V</td>
</tr>
</tbody>
</table>

**THD ref. Iv!**

<table>
<thead>
<tr>
<th>THD</th>
<th>S/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape #1</td>
<td>Denon DX-5</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>35 Hz to 15 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>62 db (w/NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 dB (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>3%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>+3 dB</td>
</tr>
<tr>
<td>Tape #2</td>
<td>Denon DX-3</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>35 Hz to 14 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>62 db (w/NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 dB (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>3%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>3 dB</td>
</tr>
</tbody>
</table>

**Features**

- 4-position tape selector; metal-ready; servo-controlled motor; auto-repeat; auto memory, front-panel bias.
- THD ref. IV.
- THD 3%
- S/N ref. IV.
- S/N 0.05%
- R/P resp. 30 Hz to 15 kHz, ±3 dB
- S/N 69 db (w/NR)
- S/N ref. lvl. 3% THD (DIN B)
- THD 0.4%
- THD ref. lvl. 0 dB

**Models also available**

C-820, $419.95; C-810, $329.95

---

<table>
<thead>
<tr>
<th>THD</th>
<th>S/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape #1</td>
<td>BASF PRO II</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 18 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>55 db/64 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 VU (CCIR) (ARM)</td>
</tr>
<tr>
<td>THD</td>
<td>1.4%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #2</td>
<td>BASF PRO III or Sony FeCr</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 15 kHz, ±3 dB</td>
</tr>
</tbody>
</table>

**EUMIG**

Eumig (U.S.A.) Inc.
Lake Success Business Park
255 Community Drive
Great Neck, N.Y. 11025

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<table>
<thead>
<tr>
<th>THD</th>
<th>S/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape #1</td>
<td>BASF PRO II</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 18 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>55 db/64 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 VU (CCIR) (ARM)</td>
</tr>
<tr>
<td>THD</td>
<td>1.4%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #2</td>
<td>BASF PRO III or Sony FeCr</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 15 kHz, ±3 dB</td>
</tr>
</tbody>
</table>

**FL-1000**

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heads</td>
<td>3</td>
</tr>
<tr>
<td>Flagger</td>
<td>0.025% (WRMS)</td>
</tr>
<tr>
<td>Play resp.</td>
<td>20 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>33 sec (C-60)</td>
</tr>
<tr>
<td>Rewind</td>
<td>33 sec (C-60)</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Output level</td>
<td>750 mV</td>
</tr>
<tr>
<td>Meters</td>
<td>Peak-reading (±20 dB to ±5 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Also has -6 dB meter sensitivity for higher allowable peaks of metal tape</td>
</tr>
<tr>
<td>Tape #1</td>
<td>Metal</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>20 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>72 db (w/NR); 64 db (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
<tr>
<td>Tape #2</td>
<td>TDK SA</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>20 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>68 db (w/NR); 60 db (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
</tbody>
</table>

**Models also available**

Metropolitan CCO, $1,300

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**FISHER**

Fisher Corp.
21314 Lassen St.
Chatsworth, Calif. 91311

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<table>
<thead>
<tr>
<th>CR-5150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
</tr>
<tr>
<td>Heads</td>
</tr>
<tr>
<td>Flagger</td>
</tr>
<tr>
<td>Play resp.</td>
</tr>
<tr>
<td>Fast-forward</td>
</tr>
<tr>
<td>Rewind</td>
</tr>
<tr>
<td>Noise red.</td>
</tr>
<tr>
<td>Input sens.</td>
</tr>
<tr>
<td>Output level</td>
</tr>
<tr>
<td>Impedance</td>
</tr>
<tr>
<td>Min. load</td>
</tr>
<tr>
<td>Separation</td>
</tr>
<tr>
<td>Erasure</td>
</tr>
<tr>
<td>Meters</td>
</tr>
<tr>
<td>Features</td>
</tr>
</tbody>
</table>

**Models also available**

BASF PRO II, Sony FeCr, BASF PRO III, Sony FeCr

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**High Fidelity’s Buying Guide to Stereo Components**

128
### CR-4029 Two-Speed Deck

**Price** $500  
**Heads** 3 (VHT/Sendust)  
**Flutter** 0.06% (1%), 0.05% (3%)  
**Fast-forward** 120 sec (C-60)  
**Rewind** 120 sec (C-60)  
**Noise red.** Dolby  
**Input sens.** 100 mV (line); 2 mV (mic)  
**Output level** 1V  
**Impedance** 5K ohms  
**Separation** 45 dB at 1 kHz  
**Erasure** 70 dB at 1 kHz  
**Meters** 2 VU; peak reading LEDs (-20 dB to +5 dB)  
**Features** Two-speed operation; metal tape capability  

<table>
<thead>
<tr>
<th>Tape #1</th>
<th>Ge0,</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 14 kHz, ±3 dB (1%); 30 Hz to 20 kHz, ±3 dB (3%)</td>
</tr>
<tr>
<td>S/N</td>
<td>62 dB (w/NR), 52 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 VU (CCIR)(ARM)</td>
</tr>
<tr>
<td>THD</td>
<td>1.5% (1%); 1.2% (3%)</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
</tbody>
</table>

**Models also available**  
- CR-4125, $500; CR-5120, $350; CR-4031 Two-Speed Deck, $350; CR-4027 Two-Speed Deck, $300; CR-4025, $200; CR-4013, 169.95

### CR-5115

**Price** $280  
**Heads** 3 (ferrite)  
**Flutter** 0.07% (WRMS)  
**Play resp.** 30 Hz to 16 kHz, ±3 dB  
**Fast-forward** 90 sec (C-60)  
**Rewind** 90 sec (C-60)  
**Noise red.** Dolby  
**Input sens.** 100 mV (line); 0.2 mV (mic)  
**Output level** 1V  
**Impedance** 5K ohms  
**Min. load** 22K ohms  
**Separation** 38 dB (1 kHz)  
**Erasure** 70 dB (1 kHz)  
**Meters** 2 VU (~20 dB to +5 dB)  
**Features** Capstan; DC servo; monitor switch; FM Dolby circuitry; switchable limiter  

<table>
<thead>
<tr>
<th>Tape #2</th>
<th>Ge0,</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 18 kHz, ±3 dB (1%); 30 Hz to 25 kHz, ±3 dB (3%)</td>
</tr>
<tr>
<td>S/N</td>
<td>62 dB (w/NR), 52 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 VU (CCIR)(ARM)</td>
</tr>
<tr>
<td>THD</td>
<td>1.5% (1%); 1.2% (3%)</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
</tbody>
</table>

**Models also available**  
- CR-4125, $500; CR-5120, $350; CR-4031 Two-Speed Deck, $350; CR-4027 Two-Speed Deck, $300; CR-4025, $200; CR-4013, 169.95

### HARMAN KARDON

**Haman Kardon**  
**55 Ames Court**  
**Plainview, N.Y. 11803**  

### HK-3500

**Price** $549  
**Heads** 3 (hard permametal)  
**Flutter** 0.05% (WRMS)  
**Play resp.** 20 Hz to 17.5 kHz, ±3 dB  
**Fast-forward** 60 sec (C-60)  
**Rewind** 60 seconds for C-60 (cassette length)  
**Noise red.** Dolby  
**Input sens.** 50 mV (low level); 0.5 mV (mic); 200 mV (high level)  
**Output level** 1.5V  
**Impedance** 1K ohms  
**Min. load** 20K ohms  
**Separation** 35 dB at 1 kHz  
**Erasure** 70 dB (1 kHz)  
**Meters** 2 VU; peak-reading -20 dB to +7 dB  
**Features** Tape selection and separate mic-line preamps  

<table>
<thead>
<tr>
<th>Tape #1</th>
<th>Ge0,</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/P resp.</td>
<td>40 Hz to 14 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB/56 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+3 VU (CCIR)(ARM)</td>
</tr>
<tr>
<td>THD</td>
<td>1.3%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
</tbody>
</table>

**Models also available**  
- HK-4125, $500; HK-5120, $350; HK-4031 Two-Speed Deck, $350; HK-4027 Two-Speed Deck, $300; HK-4025, $200; HK-4013, 169.95

### HITACHI

Hitachi Sales Corp. of America  
401 W. Artesia Blvd.  
Compton, Calif. 90277

### D-5500

**Price** $1,200  
**Heads** 3 (ferrite)  
**Flutter** 0.028%  
**Play resp.** 30 Hz to 20 kHz, ±3 dB  
**Fast-forward** 90 sec (C-60)  
**Rewind** 90 sec (C-60)  
**Noise red.** Dolby (dual)  
**Input sens.** 60 mV (line); 0.35 mV (mic)  
**Output level** 550 mV  
**Impedance** 50K ohms  
**Min. load** 50K ohms  
**Separation** 70 dB (1 kHz)  
**Erasure** 65 dB (1 kHz)  
**Meters** 2 VU; peak-reading -20 dB to +7 dB  
**Features** ATRS (Automatic Tape Response System); full function wireless remote; MPU memory circuits  

<table>
<thead>
<tr>
<th>Tape #1</th>
<th>Ge0,</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 14 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB/68 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>DIN A</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>3 VU</td>
</tr>
</tbody>
</table>

**Models also available**  
- D-4500, $549; D-5000, $399; D-4000, $349; D-3500, $299; D-3000, $249; D-2500, $199; D-2000, $149; D-1500, $99; D-1000, $49; D-500, $29; D-50, $19; D-25, $14; D-12, $9; D-5, $5; D-1, $1

### D-777

**Price** $449.95  
**Heads** 2 (permametal)  
**Flutter** 0.016%  
**Fast-forward** 100 sec (C-60)  
**Rewind** 100 sec (C-60)  
**Input sens.** 80 mV (line); 0.3 mV (mic)  
**Output level** 500 mV  
**Impedance** 50K ohms  
**Erasure** 65 dB  
**Meters** VU  
**Features** Auto reverse; bias adjustment  

**Models also available**  
- D-777, $449.95; D-777, $399; D-777, $349; D-777, $299; D-777, $249; D-777, $199; D-777, $149; D-777, $99; D-777, $49; D-777, $9.95; D-777, $1.95; D-777, $1; D-777, $0.95; D-777, $0.19; D-777, $0.09; D-777, $0.01

**HK-2000**  
**Price** $479  
**Heads** 2 (permametal)  
**Flutter** 0.07% (WRMS)  
**Play resp.** 20 Hz to 16 kHz, ±3 dB  
**Fast-forward** 90 sec (C-60)  
**Rewind** 90 sec (C-60)  
**Noise red.** Dolby  
**Input sens.** 50 mV (line); 0.2 mV (mic); 200 mV (high-level line)  
**Output level** 1.35kV  
**Separation** 34 dB (1 kHz)  
**Erasure** 60 dB (1 kHz)  
**Meters** Peak-reading (±30 to +3 dB)  
**Features** DC servomotor; mic/line mixing with independent level controls; MPX and infrasonic filters  

<table>
<thead>
<tr>
<th>Tape #1</th>
<th>Ge0,</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/P resp.</td>
<td>25 Hz to 17 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>55 dB/62 dB</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>+5 VU</td>
</tr>
<tr>
<td>THD</td>
<td>3%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>+5 VU</td>
</tr>
</tbody>
</table>

**Models also available**  
- HK-2000, $319; HK-1500, $249

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**1980 Edition**
### Tape #2

- **Price**: $380
- **Heads**: 2 (Sendust)
- **Flutter**: 0.04%
- **Fast-forward**: 100 sec (C-60)
- **Rewind**: 100 sec (C-60)
- **Noise red.**: 33 kHz
- **Input sens.**: 60 mV (line), 0.3 mV (mic)
- **Output level**: 500 mV
- **Impedance**: 50 kohms
- **Erasure**: 65 dB at 1 kHz
- **Meters**: Fluorescent meters
- **Features**: Metal contact, full logic

#### Tape #1

- **Price**: $180
- **Heads**: 2 (permalloy)
- **Input sens.**: 60 mV (line), 250 mV (mic)
- **Output level**: 650 mV
- **Impedance**: 50 kohms
- **Erasure**: 65 dB at 1 kHz
- **Meters**: A-weighted
- **Features**: Electrically controlled DC motor; output-level control

#### Models also available

- **JVC**
- **Models**: D-980, $550; D-555, N/A; D-850, $400; D-40S, $229.95

#### JVC America, Inc.

58-75 Queens Midtown Expressway
Maspeth, N.Y. 11378

### KD-A8

- **Price**: $750
- **Heads**: 2 (1 X-cut SAR/P, 1 gap-lapped SAR/P erase)
- **Flutter**: 0.035% (WRMS)
- **Fast-forward**: 85 sec (C-60)
- **Rewind**: 85 sec (C-60)
- **Input sens.**: 80 mV (line), 0.2 mV (mic)
- **Output level**: 300 mV
- **Impedance**: 3 to 8 kohms
- **Separation**: 35 dB at 1 kHz
- **Meters**: 2 VU; 5 peak-reading LEDs
- **Features**: Computer tuning for bias/EQ/sensitivity

#### Tape #1

- **Price**: $925
- **Heads**: 2 (1 X-cut SAR/P, 1 gap-lapped SAR/P erase)
- **Flutter**: 0.035% (WRMS)
- **Fast-forward**: 85 sec (C-60)
- **Rewind**: 85 sec (C-60)
- **Input sens.**: 80 mV (line), 0.2 mV (mic)
- **Output level**: 300 mV
- **Impedance**: 3 to 8 kohms
- **Separation**: 35 dB at 1 kHz
- **Meters**: 2 VU; 5 peak-reading LEDs
- **Features**: Computer tuning for bias/EQ/sensitivity

#### Tape #2

- **Price**: $1,450
- **Heads**: 2 (1 X-cut SAR/P, 1 gap-lapped SAR/P erase)
- **Flutter**: 0.035% (WRMS)
- **Fast-forward**: 85 sec (C-60)
- **Rewind**: 85 sec (C-60)
- **Input sens.**: 80 mV (line), 0.2 mV (mic)
- **Output level**: 300 mV
- **Impedance**: 3 to 8 kohms
- **Separation**: 35 dB at 1 kHz
- **Meters**: 2 VU; 5 peak-reading LEDs
- **Features**: Computer tuning for bias/EQ/sensitivity

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**KENWOOD**

Kenwood Electronics, Inc.
75 Seaview Drive
Secaucus, N.J. 07094

### KD-1636-II

- **Price**: $400
- **Heads**: 2 (1 SA/R/P, 1 double-gap ferrite erase)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 80 sec (C-60)
- **Rewind**: 80 sec (C-60)
- **Input sens.**: 80 mV (line), 0.14 mV (mic)
- **Output level**: 500 mV
- **Impedance**: 500 kohms
- **Separation**: 35 dB (1 kHz)
- **Meters**: 2 VU (±20 dB to ±5 DB), 1-color peak indicator
- **Features**: Built-in monitor speaker with volume control

#### Tape #1

- **Price**: $550
- **Heads**: 2 (1 SAR/P, 1 hard permalloy erase)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 90 sec (C-60)
- **Rewind**: 90 sec (C-60)
- **Input sens.**: 80 mV (line), 0.14 mV (mic)
- **Output level**: 500 mV
- **Impedance**: 50 kohms
- **Separation**: 35 dB (1 kHz)
- **Meters**: 2 VU (±20 dB to ±5 DB), 1-color peak indicator
- **Features**: Built-in monitor speaker with volume control

#### Tape #2

- **Price**: $450
- **Heads**: 2 (1 SAR/P, 1 double-gap ferrite erase)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 90 sec (C-60)
- **Rewind**: 90 sec (C-60)
- **Input sens.**: 80 mV (line), 0.14 mV (mic)
- **Output level**: 500 mV
- **Impedance**: 50 kohms
- **Separation**: 35 dB (1 kHz)
- **Meters**: 2 VU (±20 dB to ±5 DB), 1-color peak indicator
- **Features**: Built-in monitor speaker with volume control

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**JVC**

JVC America, Inc.

50-75 Queens Midtown Expressway
Maspeth, N.Y. 11378

### KD-1770-II

- **Price**: $380
- **Heads**: 2 (1 SA/R/P, 1 double-gap ferrite erase)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 75 sec (C-60)
- **Rewind**: 75 sec (C-60)
- **Noise red.**: ANRS, Super ANRS
- **Input sens.**: 80 mV (line), 0.2 mV (mic), 0.17 mV (DIN)
- **Output level**: 500 mV
- **Impedance**: 6.8 kohms
- **Separation**: 35 dB (1 kHz)
- **Meters**: 2 VU, 2 sets of 5 peak-reading LEDs
- **Features**: Timer recording, memory stop

#### Tape #1

- **Price**: $235
- **Heads**: 2 (hard permalloy)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 85 sec (C-60)
- **Rewind**: 85 sec (C-60)
- **Noise red.**: Yes
- **Input sens.**: 77.5 mV (line), 0.19 mV (mic)
- **Output level**: 775 mV
- **Impedance**: 2 ohms
- **Meters**: 2 VU+peak-reading
- **R/P resp.**: 35 Hz to 15 kHz, ±3 dB
- **S/N**: 65 dB/55 dB
- **S/N ref. lvl.**: 160 nW/m
- **THD**: 1.3%
- **THD ref. lvl.**: 160 nW/m

### KD-85

- **Price**: $550
- **Heads**: 2 (1 SAR/P, 1 double-gap ferrite erase)
- **Flutter**: 0.05% (WRMS)
- **Fast-forward**: 85 sec (C-60)
- **Rewind**: 85 sec (C-60)
- **Noise red.**: Dolby
- **Input sens.**: 20 mV (line); 0.2 mV (mic); 0.17 mV (DIN)
- **Output level**: 410 mV
- **Impedance**: 3 kohms
- **Separation**: 35 dB (1 kHz)
- **Erasure**: 65 dB (1 kHz)
- **Meters**: 2 VU, 5 peak-reading LEDs (±20 dB to ±4.5 dB)
- **Tape #1**: TKD SA
- **R/P resp.**: 40 Hz to 15 kHz, ±3 dB
- **S/N**: 57 dB/67 dB
- **THD**: 0.5%
- **THD ref. lvl.**: K3.0 VU
- **Tape #2**: Maxell UD
- **R/P resp.**: 40 Hz to 15 kHz, ±3 dB
- **S/N**: 57 dB/67 dB
- **THD**: 0.5%
- **THD ref. lvl.**: K3.0 VU

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High Fidelity's Buying Guide to Stereo Components
Models also available
RKD-500
LAFAYETTE
Lafayette Radio Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

Feature
Meters
Impedance
Output level
Input sens.
Noise red.
Rewind
Fast-forward
Play resp.
Flutter
Heads
Price
RKD-650
Price $299.99
Heads (permalloy R/P; ferrite erase)
Flutter 0.06%
Play resp. 40 Hz to 60 kHz, +3 dB
Fast-forward 100 sec (C-60)
Rewind 100 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.3 mV (mic)
Output level 0.5 mV
Impedance 4.7k ohms
Separation 35 dB (1 kHz)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
Tape # S/N 54 dB/62 dB
THD 1.7%
THD ref. Ivl. 1 kHz

Models also available
RKD-225, $199.99; RKD-150, $149.99

LENCO
Neosonic Corp. of America
180 Miller Place
Hicksville, N.Y. 11801

C-2003
Price $796
Heads 3 (1 ferrite erase; 1 permalloy record; 1 playback)
Flutter 0.07% (WRMS); 0.16% (DIN)
Play resp. 30 Hz to 18 kHz; +3 dB
Fast-forward 75 sec (C-60)
Rewind 75 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 350 mV (mic); 8 mV (DIN)
Output level 750 mV

Feature
Impedance 330 ohms
Erase 65 dB (1 kHz)
Meters 2 VU; peak-reading -20 dB to +4 dB
Features Two-motor solenoid drive system; mixing facilities; MPX filter; memory rewind
LUX
Lux Audio of America
160 Dupont St.
Plainview, N.Y. 11791

5K-50
Price $1,995
Heads 3 Sendust
Flutter 0.03% (WRMS)
Input sens. 100 mV (line), 0.25 mV (mic); 2 mV (DIN)
Output level 580 mV
Meters Peak reading plasma (-40 dB to +4 dB)
THD ref. Ivl. 3% (1 kHz)

K-5A
Price $495
Heads 2 (Sendust)
Flutter 0.06% (WRMS)
Play resp. 30 sec to 20 kHz
Input sens. 100 mV (line); 0.45 mV (mic); 2 mV (DIN)
Output level 580 mV
Meters Peak-reading fluorescent
THD ref. Ivl. 1.5% (1 kHz)

Models also available
K-12 Cassette Deck, $995; K-10 Cassette Deck, $795

MARANTZ
Superscope, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311

SD-9000 Two-Speed Deck
Price $775
Heads 3 (Sendust)
Flutter 0.03% (3%); 0.05% (1%)
Play resp. 31.5 Hz to 14 kHz, -2 dB (1%); 31.5 Hz to 25 kHz, -2 dB (3%)
Fast-forward 85 sec (C-60)
Rewind 85 seconds for C-60 (length)
Noise red. Double Dolby
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 650 mV (line); 43 mV (headphone)
Impedance 1.2K ohms (line); 150 ohms (headphone)
Separation 40 dB at 1 kHz
Erase 60 dB at 1 kHz
Meters 2 LED peak level

Features Two-speed: electronic feather-touch operation; memory rewind/play; output level control; 2-motor transport; auto slack take-up; bias fine adjustment; mic/line mixing; record mute; sensor stop
Tape # Metal (3M Metalone)
THD ref. Ivl. 0.08% (WRMS)

SD-8000 Two-Speed Deck
Price $500
Heads 2 (Sendust)
Flutter 0.03% (3%); 0.05% (1%)
Play resp. 31.5 Hz to 14 kHz, -2 dB (1%); 31.5 Hz to 25 kHz, -2 dB (3%)
Fast-forward 85 sec (C-60)
Rewind 85 sec (C-60)
Noise red. Dolby
Input sens. 70 mV (line); 0.25 mV (mic)
Output level 650 mV (line); 43 mV (headphone)
Impedance 1.2K ohms (line); 150 ohms (headphone)
Separation 40 dB at 1 kHz
THD ref. Ivl. 0.08% (WRMS)

Models also available
SD-6000 Two-Speed Deck
Price $250
Heads 2 LED peak level
Features Two-speed; electronic feather-touch operation; memory rewind/play; output level control; 2-motor transport; auto slack take-up; bias fine adjustment; mic/line mixing; record mute; sensor stop
Tape # Metal (3M Metalone)
THD ref. Ivl. 0.08% (WRMS)

SD-5000 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-4000 Two-Speed Deck
Price $250
Heads 2 LED peak level
Features Two-speed; electronic feather-touch operation; memory rewind/play; output level control; 2-motor transport; auto slack take-up; bias fine adjustment; mic/line mixing; record mute; sensor stop
Tape # Metal (3M Metalone)
THD ref. Ivl. 0.08% (WRMS)

SD-3000 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-2000 Two-Speed Deck
Price $250
Heads 2 LED peak level
Features Two-speed; electronic feather-touch operation; memory rewind/play; output level control; 2-motor transport; auto slack take-up; bias fine adjustment; mic/line mixing; record mute; sensor stop
Tape # Metal (3M Metalone)
THD ref. Ivl. 0.08% (WRMS)

SD-1000 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-900 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-800 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-700 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-600 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-500 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-400 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-300 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-200 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

SD-100 Two-Speed Deck
Price $250
Heads 2 (Sendust)
Features DC servomotor, damped eject; memory rewind; MPX filter; 3-position bias and EQ switches; output control; mic mixing; full-auto stop-front-loading
THD ref. Ivl. 3% (1 kHz)

1980 Edition
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<td><strong>S/N ref. l/v.</strong></td>
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<tr>
<td><strong>Tape #1</strong></td>
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<tr>
<td>MT-01 Micro</td>
<td>$560</td>
<td>2 (Sendust R/P; ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
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<td><strong>NAD</strong></td>
<td>$425</td>
<td>2 (Sendust R/P; ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
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<tr>
<td><strong>NAD-6100</strong></td>
<td>$500</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
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<tr>
<td><strong>Nakamichi SX</strong></td>
<td>$1,350</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
</tr>
<tr>
<td><strong>Nakamichi SX</strong></td>
<td>$2,950</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
</tr>
<tr>
<td><strong>Nakamichi</strong></td>
<td>$1,800</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
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<tr>
<td><strong>Nakamichi SX</strong></td>
<td>$1,900</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
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<tr>
<td><strong>Nakamichi SX</strong></td>
<td>$2,000</td>
<td>3 (Sendust-on-ferrite erase)</td>
<td>0.05%</td>
<td>40 Hz to 15 kHz, ±3 dB</td>
<td>80 sec (C-60)</td>
<td>70 sec (C-60)</td>
<td>35 mV (line)</td>
<td>56 dB (w/o NR)</td>
<td>2 K ohms</td>
<td>22 K ohms</td>
<td>35 dB at 1 kHz</td>
<td>70 sec (C-60)</td>
<td>Dolby</td>
<td>3%</td>
<td>0 dB (200 mV/m)</td>
<td>DC servomotor; IC logic solenoid; transport; tape; 1K ohms; 1V</td>
</tr>
</tbody>
</table>
Models also available

ONKYO
Onkyo U.S.A. Corp.
42-07 20th Ave.
Long Island City, N.Y. 11105

TA-2080

Price $799.95
Heads 3 (Sendust)
Flutter 0.055%
Play resp. 20 Hz to 18 kHz

Features

- Closed loop dual capstan; solenoid controls, Auto-Accubias, front-panel Dolby calibration; auto fadeout

TA-630D

Price $350
Heads 2 (hyperbolic Sendust)
Flutter 0.055%
Play resp. 20 Hz to 18 kHz

Features

- Closed loop dual capstan; solenoid controls, Auto-Accubias, front-panel Dolby calibration; auto fadeout

OPTIONICA

Sharp Electronics Corp.
10 Keystone Place
Paramus, N.J. 07652

RT-6905

Price $1,800
Heads 4 (Sendust)
Flutter 0.038%
Play resp. 31.5 Hz to 14 kHz, ± 3 dB

Features

- Closed loop dual capstan; solenoid controls, Auto-Accubias, front-panel Dolby calibration; auto fadeout

RT-6201

Price $730
Heads 4 (Sendust)
Flutter 0.055%
Play resp. 31.5 Hz to 14 kHz, ± 3 dB

Features

- Closed loop dual capstan; solenoid controls, Auto-Accubias, front-panel Dolby calibration; auto fadeout

RT-6001

Price $720
Heads 2 (hyperbolic)
Flutter 0.06%
Play resp. 31.5 Hz to 14 kHz, ± 3 dB

Features

- Closed loop dual capstan; solenoid controls, Auto-Accubias, front-panel Dolby calibration; auto fadeout
### PHASE LINEAR

**Phase Linear Corp.**

**12011 48th Ave. W.**

**Lynnwood, Wash. 98036**

**700 Series Two**

**Price:** $1,349.95  
**Heads:** 3 (Uni-crystal)  
**Flutter:** 0.003% (WRMS)  
**Fast-forward:** 75 sec (C-60)  
**Noise red:** Double Dolby  
**Input sens:** 60 mV (line); 0.3 mV (mic)  
**Output level:** 450 mV  
**Impedance:** 10K ohms  
**Price:** $295  
**Heads:** 2 (hard permalloy)  
**Flutter:** 0.05%  
**Play resp:** 25 Hz to 15 kHz, ±3 dB  
**Rewind:** 90 sec (C-60)  
**Noise red:** Dolby  
**Input sens:** 50 mV (line); 0.3 mV (mic)  
**Output level:** 450 mV  
**Impedance:** 75 ohms  
**Tape #1**

- **Metal**  
- **R/P resp:** 25 Hz to 19 kHz, ±3 dB  
- **S/N:** 70 dB (w/NR); 60 dB (w/o NR)  
- **THD:** 1.2%  
  
**CT-F650**

- **Price:** $495  
- **Heads:** 3 (Sendust)  
- **Flutter:** 0.04%  
- **Play resp:** 25 Hz to 15 kHz, ±3 dB  
- **Rewind:** 85 sec (C-60)  
- **Noise red:** Dolby  
- **Input sens:** 64 mV (line); 0.3 mV (mic)  
- **Output level:** 450 mV  
- **Impedance:** 85 ohms  
  
**Models also available**

- **CT-F650**
- **CT-F590**
- **CT-F750**
- **CT-F500**
- **CT-F500**
- **CT-F500**

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### REALISTIC

**Radio Shack**

**Tandy Corp.**

**Fort Worth, Tex. 76102**

**SCT-3000**

- **Price:** $579.95  
- **Heads:** 3 (ferromagnetic)  
- **Flutter:** 0.05% (WRMS)  
- **Play resp:** 33 Hz to 14 Khz, ±2 dB  
- **Fast-forward:** 90 sec (C-60)  
- **Rewind:** 90 sec (C-60)  
- **Noise red:** Double Dolby  
- **Input sens:** 78 mV (line); 0.43 mV (mic)  
- **Output level:** 550 mV  
- **Impedance:** 10K ohms  
  
**Tape #1**

- **Metal Particle**  
- **R/P resp:** 30 Hz to 19 kHz  
- **S/N:** 68 dB (w/NR); 59 dB (w/o NR)  
- **THD:** 1.2%  
  
**Models also available**

- **SCT-19**
- **SCT-19**
- **SCT-19**
- **SCT-19**
- **SCT-19**
- **SCT-19**

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### ROTEL

**Rotel of America, Inc.**

**1055 Saw Mill River Road**

**Ardsdale, N.Y. 10502**

**RD-2200M**

- **Price:** $450  
- **Heads:** 2  
- **Flutter:** 0.0%  
- **Play resp:** 30 Hz to 19 kHz, ±3 dB  
- **Fast-forward:** 90 sec (C-60)  
- **Rewind:** 90 sec (C-60)  
- **Noise red:** Dolby  
- **Input sens:** 66 mV (line); 0.8 mV (mic); 10 mV (DIN)  
- **Output level:** 650 mV  
- **Impedance:** 5K ohms  
  
**Tape #1**

- **Metal Particle**  
- **R/P resp:** 30 Hz to 19 kHz  
- **S/N:** 64 dB (w/NR); 56 dB (w/o NR)  
- **THD:** 1.2%  
- **Models also available**

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### PHILIPS

**Philips High Fidelity Laboratories**

**P.O. Box 2208**

**Fort Wayne, Ind. 46801**

**N-2535**

- **Price:** $210 (silver); (N2535BK, black; $230)  
- **Heads:** 2  
- **Flutter:** 0.2%  
- **Play resp:** 40 Hz to 14 kHz, ±3 dB  
- **Fast-forward:** 90 sec (C-60)  
- **Rewind:** 90 sec (C-60)  
- **Noise red:** Dolby  
- **Input sens:** 100 mV (line); 1 mV (mic)  
- **Output level:** 650 mV (variable)  
- **Separation:** 60 dB (40 Hz to 14 kHz)  
- **Meters:** 2 VU (peak-reading meter)  
- **Features:** Viscous-damped ejection; record overload indicator  
- **Price:** $695  

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### PIONEER

**U.S. Pioneer Electronics Corp.**

**75 Oxford Drive**

**Moonachie, N.J. 07074**

**CT-F1250**

- **Price:** $695  

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### Reference

- **CBS Retail Stores**
- **Emeryville, Calif. 94608**
- **412D**
  - **Price:** $249.95  
  - **Heads:** 2  
  - **Flutter:** 0.06%  
  - **Play resp:** 30 Hz to 18 kHz, ±3 dB  
  - **Noise red:** Dolby  
  - **Meters:** Peak-reading meter  
  - **Features:** Metal capability; auto shut-off!
### SAE TWO
Scientific Audio Electronics, Inc.
701 E. Macy St.
Los Angeles, Calif. 90012

#### C-4

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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<td>Price</td>
<td>$500</td>
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<tr>
<td>Heads</td>
<td>2 (Sendust)</td>
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<tr>
<td>Flutter</td>
<td>0.06</td>
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<tr>
<td>Play resp.</td>
<td>30 Hz to 14 kHz, +2 dB</td>
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<tr>
<td>Fast-forward</td>
<td>70 sec (C-60)</td>
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<tr>
<td>Rewind</td>
<td>70 sec (C-60)</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Input sens.</td>
<td>57 mV (line); 0.18 mV (mic)</td>
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<tr>
<td>Output level</td>
<td>350 mV</td>
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<tr>
<td>Separation</td>
<td>40 dB at 1 kHz</td>
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<tr>
<td>Erasure</td>
<td>65 dB at 1 kHz</td>
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<tr>
<td>Meters</td>
<td>Peak-reading (-25 dB to +5 dB)</td>
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<tr>
<td>Features</td>
<td>Fluorescent display; variable bias; full logic</td>
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<tr>
<td>Tape #1</td>
<td>Metal</td>
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<tr>
<td>R/P resp.</td>
<td>20 Hz to 20 kHz, +3 dB</td>
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<tr>
<td>S/N</td>
<td>69 dB (w/ NR); 59 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>1%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #2</td>
<td>CrO₂</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>20 Hz to 17 kHz, +3 dB</td>
</tr>
</tbody>
</table>

#### D-90

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$200</td>
</tr>
<tr>
<td>Heads</td>
<td>2 (1 1 super-hard permalloy R/P; 1 ferrite erase)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.055%</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Input sens.</td>
<td>70 mV (line); 0.2 mV (mic)</td>
</tr>
<tr>
<td>Output level</td>
<td>400 mV (line)</td>
</tr>
<tr>
<td>Min. load</td>
<td>47K ohms</td>
</tr>
<tr>
<td>Separation</td>
<td>50 dB at 1 kHz</td>
</tr>
<tr>
<td>Erasure</td>
<td>65 dB (w/ NR); 55 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>0.8%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #1</td>
<td>CrO₂</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>35 Hz to 15 kHz, +3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>69 dB (w/ NR); 59 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>1.5%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #2</td>
<td>LH</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>35 Hz to 14 kHz, +3 dB</td>
</tr>
</tbody>
</table>

### SANSUI
Sansui Electronics Corp.
55-11 Queens Blvd.
Woodside, N.Y. 11377

#### SC-5330

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Price</td>
<td>$520</td>
</tr>
<tr>
<td>Heads</td>
<td>2 (ferrite head R/P for metal tape; 1 ferrite erase)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.035%</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>70 sec (C-60)</td>
</tr>
<tr>
<td>Rewind</td>
<td>70 sec (C-60)</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Input sens.</td>
<td>70 mV (line); 0.2 mV (mic)</td>
</tr>
<tr>
<td>Output level</td>
<td>400 mV</td>
</tr>
<tr>
<td>Min. load</td>
<td>47K ohms</td>
</tr>
<tr>
<td>Separation</td>
<td>50 dB at 1 kHz</td>
</tr>
<tr>
<td>Erasure</td>
<td>65 dB (full range)</td>
</tr>
<tr>
<td>Meters</td>
<td>2 VU; (~20 dB to +5 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Feather-touch solenoid controls; auto play; VU meters with 5 LED peak level indicators; repeat and memory by logic control circuitry; one-touch tape lead in; rec; mute; timer rec. and play function; mic/mixing; MPX filter; output level control; matte finish; detachable rack-mounting handles; Direct-O-Matic front-loading</td>
</tr>
<tr>
<td>Tape #1</td>
<td>Metal</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>20 Hz to 20 kHz, +3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>69 dB (w/ NR); 59 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. lvl.</td>
<td>3% (A-weighted)</td>
</tr>
<tr>
<td>THD</td>
<td>1%</td>
</tr>
<tr>
<td>THD ref. lvl.</td>
<td>0 VU</td>
</tr>
<tr>
<td>Tape #2</td>
<td>CrO₂</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>20 Hz to 17 kHz, +3 dB</td>
</tr>
</tbody>
</table>

### SANYO
Sanyo Electric, Inc.
Consumer Electronics Div.
1200 W. Artesia Blvd.
Compton, Calif. 90220

#### RD-5372

<table>
<thead>
<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Price</td>
<td>$500</td>
</tr>
<tr>
<td>Heads</td>
<td>3 (Sendust alloy R/P)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.04%</td>
</tr>
<tr>
<td>Play resp.</td>
<td>30 Hz to 19 kHz, +3 dB</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Meters</td>
<td>2 VU; peak-reading; LED meters</td>
</tr>
<tr>
<td>Tape #1</td>
<td>Metal-particle &quot;Supertape&quot;</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 19 kHz, +3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>70 dB (w/NR); 62 dB (w/o NR)</td>
</tr>
<tr>
<td>THD</td>
<td>0.6%</td>
</tr>
</tbody>
</table>

#### RD-5250

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Price</td>
<td>$169.95</td>
</tr>
<tr>
<td>Heads</td>
<td>2 (permalloy)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.08%</td>
</tr>
<tr>
<td>Play resp.</td>
<td>13 Hz to 16 kHz, +3 dB</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Meters</td>
<td>2 VU</td>
</tr>
<tr>
<td>Features</td>
<td>Separate input/output controls; separate EQ and bias; timer standby in record and Dolby mode; full auto stop</td>
</tr>
<tr>
<td>Tape #1</td>
<td>CrO₂</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 16 kHz, +3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>64 dB (w/ NR)</td>
</tr>
</tbody>
</table>

#### RD-5030

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Price</td>
<td>$159.95</td>
</tr>
<tr>
<td>Heads</td>
<td>2 (permalloy)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.08%</td>
</tr>
<tr>
<td>Play resp.</td>
<td>30 Hz to 16 kHz, +3 dB</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Meters</td>
<td>2 VU</td>
</tr>
<tr>
<td>Features</td>
<td>Mechanical tape tension serve; separate EQ and bias; digital tape counter; full auto stop</td>
</tr>
<tr>
<td>Tape #1</td>
<td>CrO₂</td>
</tr>
<tr>
<td>S/N</td>
<td>62 dB</td>
</tr>
</tbody>
</table>

#### RD-5008

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$129.95</td>
</tr>
<tr>
<td>Heads</td>
<td>2 (permalloy)</td>
</tr>
<tr>
<td>Flutter</td>
<td>0.1%</td>
</tr>
<tr>
<td>Play resp.</td>
<td>30 Hz to 14 kHz, +3 dB</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby</td>
</tr>
<tr>
<td>Meters</td>
<td>2 VU (LED)</td>
</tr>
</tbody>
</table>

---

**Output level**: 550 mV/5K ohms  
**Impedance**: 5K ohms  
**Min. load**: 20K ohms  
**Erasure**: 60 dB (1 kHz)  
**S/N**: 53 dB/60 dB  
**THD**: 1.5%
### PLUS D-65

**Tape** mixing; record mute control; timer standby; auto

- **Output level**
- **Heads** 0.8%/1.5%
- **S/N**
- **THD** 0.8%
- **Meters** 2 VU

**Features** Two-motor full-logic solenoid controls; full auto reverse; LED tape direction; 8 full-function electronic-touch controls; timer standby

**Tape #1**
- **Metal**
- **R/P resp.** 20 Hz to 18 kHz, ±3 dB
- **S/N** 70 dB (w/ NR), 62 dB (w/o NR)
- **THD** 0.8%
- **S/N ref. lvl.** 3% THD (IHF A-weighted)
- **THD ref. lvi.** 0 dB VU
- **Price** $399.95

**Tape #2**
- **CrO₂**
- **R/P resp.** 20 Hz to 16 kHz, ±3 dB
- **S/N** 67 dB (w/ NR), 56 dB (w/o NR)
- **THD** 0.8%/1.5%

**Models also available**
- **Price** $259.95

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-4488</td>
<td>Metal</td>
<td>$499</td>
</tr>
</tbody>
</table>

### PLUS D-45

- **Price** $259.95
- **Heads** 2 (1 Sendust alloy R/P; 1 ferrite erase)
- **Flutter** 0.05%

**Play resp.** 30 Hz to 19 kHz, ±3 dB

**Noise red.** Dolby

**Input sens.** 0.3 mV (line); 50 mV (mic)

**Output level** 530 mV

**Features** Peak-hold; Defeatable FM MPX filter; mic/line mixing; record mute control; timer standby; auto-stop

**Tape #1**
- **Metal**
- **R/P resp.** 30 Hz to 19 kHz, ±3 dB
- **S/N** 59 dB (w/ NR), 67 dB (w/o NR)
- **THD** 0.8%

**Tape #2**
- **CrO₂**
- **R/P resp.** 30 Hz to 17 kHz, ±3 dB
- **S/N** 56 dB/dB
- **THD** 0.8%

### Models also available

- **Price** $549.95
- **Heads** 90 sec (C-60)

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-3388</td>
<td>Metal</td>
<td>$409</td>
</tr>
</tbody>
</table>

### SHARP

**Sharp Electronics Corp.**

**10 Keystone Place**

**Paramus, N.J. 07652**

**RT-4488**

**Price** $499

- **Heads** 2 (permallloy plus)
- **Flutter** 0.048 WMRS
- **Play resp.** 31.5 Hz to 14 kHz, ±3 dB
- **Fast-forward** 95 sec (C-60)
- **Rewind** 95 sec (C-60)
- **Noise red.** Dolby
- **Input sens.** 50 mV (line); 0.3 mV (mic)
- **Output level** 50k ohms
- **Impedance** 50k ohms
- **Min. load** 50k ohms
- **THD** 1%
- **THD ref. lvi.** 160 pwb/mm
- **Price** $189

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-1199</td>
<td>Metal</td>
<td>$329</td>
</tr>
</tbody>
</table>

### RT-1165-II

**Price** $239

- **Heads** 2 (1 ultra-hard permallloy R/P; 1 ferrite erase)
- **Flutter** 0.08% (WMRS)
- **Play resp.** 31.5 Hz to 14 kHz, ±3 dB
- **Fast-forward** 100 sec (C-60)
- **Rewind** 100 sec (C-60)
- **Noise red.** Dolby
- **Input sens.** 50 mV (line); 0.2 mV (mic)
- **Output level** 500 mV
- **Impedance** 50k ohms
- **Min. load** 50k ohms
- **THD** 1%
- **THD ref. lvi.** 160 VU

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
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</tr>
</thead>
<tbody>
<tr>
<td>RT-1114</td>
<td>Metal</td>
<td>$189</td>
</tr>
</tbody>
</table>

**Price** $189

- **Heads** 2 (1 hard permallloy R/P; 1 ferrite erase)
- **Flutter** 0.08% (WMRS)
- **Play resp.** 40 Hz to 12.5 kHz, ±3 dB
- **Fast-forward** 100 sec (C-60)
- **Rewind** 100 sec (C-60)
- **Noise red.** Dolby
- **Input sens.** 50 mV (line); 0.2 mV (mic)
- **Output level** 400 mV
- **Impedance** 50k ohms
- **Min. load** 50k ohms
- **THD** 1.5%
- **THD ref. lvi.** 0 VU

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
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</tr>
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<tbody>
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<tr>
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<th>Price</th>
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<td>RT-1199</td>
<td>Metal</td>
<td>$329</td>
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<table>
<thead>
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</thead>
<tbody>
<tr>
<td>RT-1156</td>
<td>Metal</td>
<td>$529</td>
</tr>
</tbody>
</table>

**Price** $239

- **Heads** 2 (1 Sendust alloy R/P; 1 ferrite erase)
- **Flutter** 0.05%
- **Play resp.** 30 Hz to 19 kHz, ±3 dB
- **Rewind** 100 sec (C-60)
- **THD** 1%
- **THD ref. lvi.** 200 VU

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<th>Price</th>
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<td>RT-1199</td>
<td>Metal</td>
<td>$329</td>
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<th>Price</th>
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<tr>
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<td>Metal</td>
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<tr>
<td>RT-1199</td>
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<td>$329</td>
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<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-1199</td>
<td>Metal</td>
<td>$329</td>
</tr>
</tbody>
</table>
THD ref. IVL.
S/N ref. NI.

Tape #1 certificate with each unit shows exact performance

Impedance 100K ohms
Min. load 10K ohms
Separation 35 dB at 1 kHz
Erasure 60 dB at 40 Hz
Meters VU, 1 peak-reading LED
Features Automatic reverse; roto-bilateral;
microprocessor tape-function control; Dolby and
FM MPX filter

Tape #1 FeCr
R/P resp. 30 Hz to 16 kHz, ±3 dB
S/N 68 dB (w/o NR), 56 dB (w/o NR)
S/N ref. lv'l. −20 dB (IHF A)

TC-K55
Price $400
Heads 2 (sendust and ferrite)
Flutter 0.04% (RMS)
Fast-forward 80 sec (C-60)
Rewind 80 sec (C-60)
Noise red. Dolby
Input sens. 77.5 mV (line), 0.25 mV (mic)
Output level 935 mV
Impedance 50K ohms
Min. load 10K ohms
Separation 35 dB (1 kHz)
Erasure 60 dB at 400 Hz
Meters 2 VU; peak reading (−20 dB to +5 dB)

Features Auto-space, recording mute; full 
logic IC operation; auto play

Tape #1 Sony FeCr
R/P resp. 30 Hz to 17 kHz, ±3 dB
S/N 68 dB (w/o NR), 58 dB (w/o NR)
S/N ref. lv'l. −20 dB (IHF A)

TC-K45
Price $320
Heads 2 (ferite and ferrite)
Flutter 0.05% (WRMS)
Play resp. 90 sec (C-60)
Fast-forward 90 sec (C-60)
Noise red. Dolby
Input sens. 77.5 mV (line), 0.25 mV (mic)
Output level 435 mV
Impedance 50K ohms
Min. load 10K ohms
Separation 35 dB (1 kHz)
Erasure 60 dB at 400 Hz
Meters peak reading (−20 to +5 dB)

Features Recording mute; memory, auto play

Tape #1 Sony FeCr
R/P resp. 30 Hz to 17 kHz, ±3 dB
S/N 68 dB (w/o NR), 58 dB (w/o NR)
S/N ref. lv'l. −20 dB (IHF A)

TC-K35
Price $250
Heads 2 (ferite and ferrite)
Flutter 0.05% (WRMS)
Fast-forward 90 sec (C-60)

Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 77.5 mV (line); 0.25 mV (mic)
Output level 435 mV
Impedance 50K ohms
Min. load 10K ohms
Separation 35 dB (1 kHz)
Erasure 60 dB at 400 Hz
Meters 2 VU; peak reading LED (±20 dB to +5 dB)

Features Auto play, recording mute

Tape #1 Sony FeCr
R/P resp. 30 Hz to 15 kHz, ±3 dB
S/N 68 dB (w/o NR), 56 dB (w/o NR)
S/N ref. lv'l. −20 dB (IHF A)

TC-K1A
Price $180
Heads 2
Flutter 0.08% (WRMS)
Play resp. 50 Hz to 13 kHz, ±3 dB
Fast-forward 90 sec (C-60)
Noise red. Dolby
Input sens. 77.5 mV (line), 0.25 mV (mic)
Output level 435 mV
Impedance 10K ohms
Min. load 20K ohms
Separation 35 dB (1 kHz)
Meters 2 VU (−20 dB to +5 dB)

Features Sony EHF

Tape #1 Sony FeCr
R/P resp. 50 Hz to 13 kHz, ±3 dB
S/N 55 dB
S/N ref. lv'l. 53 dB

Models also available
TC-DS, $980; TC-K75, $900; TC- 
K60, $550, TC-K65, $500, TC-
1585D, $390; TC-K2A Cassette 
Deck, $200

SUPERSCOPE
Superscope, Inc.
20525 Nordhoff St.
Chatsworth, Calif. 91311
C-1 (Champagne) or C-1B
(Brown)

Price $1,350
Heads 3 (ferrite)
Flutter 0.04%
Play resp. 30 Hz to 18 kHz, ±3 dB
Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Noise red. Dolby, plus optional outboard dbx (RX-8)
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 0.3V
Impedance 50K ohms
Min. load 50K ohms
Meters 2 VU (-20 dB to +5 dB)
Features Auto bias

Impedance 50K ohms
Min. load 50K ohms
Meters 2 VU (-20 dB to +5 dB)
Features Auto bias

Models available
C-320A, $1,200

TEAC
Teac Corp. of America
7733 Telegraph Road
Montebello, Calif. 90640

C-2

Price $1,000
Heads 3
Flutter 0.05%
Play resp. 20 Hz to 20 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 peak-reading (-20 dB to +5 dB)

Models also available
C-320, $700

M-124

Price $475
Heads 2
Flutter 0.07%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 VU (-20 dB to +3 dB)
Features Sync-cassette

CX-270

Price $250
Heads 2
Flutter 0.07%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 300 mV
Impedance 50K ohms
Min. load 50K ohms
Meters 2 Fluorescent meters (-20 dB to +3 dB)

Models also available
CX-650R, $700, C-30, $600; A-650RX, $550; A-510, $475; A-500, $425; A-300, $425, CX-210, $200

TECHNICS
Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07094

RS-9900US

Price $2,000
Heads 3 (1 hot-pressed ferrite record; 1 hot-pressed ferrite playback; 1 double-gap ferrite erase)
Flutter 0.04% (WRMS)
Play resp. 25 Hz to 20 kHz, ±3 dB
Fast-forward 70 sec (C-60)
Rewind 70 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 420 mV
Impedance 22K ohms
Min. load 22K ohms
Meters 2 VU, peak-reading
Features Two rack-mountable chasis (1 electronics, 1 transport), 3-position bias and EQ selectors, plus continuously variable bias and EQ adjustment; separately controlled mic line/aux mixing; tape-lime meter; pitch (variable speed) control (±5%); memory rewind; memory play; adjustable azimuth; Dolby FM function; built-in test tones (400 Hz and 8 kHz); built-in mic attenuator; fully transistorized switching; volume control for headphone output

Models available
RS-9000, $1,500

High Fidelity's Buying Guide to Stereo Components
RS-M95

Price $1,300
Heads 2 (2 HPF; 1 Sendust ferrite)
Flutter 0.05%
Play resp. 20 Hz to 20 kHz, ±3 dB
Fast-forward 80 sec (C-60)
Rewind 80 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 650 mV
Impedance 6k ohms
Min. load 22k ohms
Meters 2-color fluorescent peak-reading
Features
Tape #1 Metal
R/P reap. 20 Hz to 20 kHz
S/N 70 dB (w/NR); 60 dB (w/o NR)

RS-M56

Price $500
Heads 2 (HPF; + ferrite)
Flutter 0.05%
Play resp. 30 Hz to 17 kHz
Fast-forward 86 sec (C-60)
Rewind 86 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 420 mV
Impedance 1K ohms
Min. load 22K ohms
Meters 2-color fluorescent peak reading
features
Tape #1 TDK SA
R/P reap. 30 Hz to 17 kHz
S/N 67 dB (w/NR); 57 dB (w/o NR)

RS-M53

Price $350
Heads 2 (1 HPF R/P; 1 ferrite erase)
Flutter 0.05%
Play resp. 30 Hz to 17 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 650 mV
Impedance 22K ohms
Min. load 22K ohms
Meters Peak-reading fluorescent bar graph meters
Features
Tape #1 CrO2
R/P reap. 30 Hz to 17 kHz
S/N 57 dB/67 dB (w/NR)

RS-M22

Price $300
Heads 2 (LH and ferrite)
Flutter 0.06%
Play resp. 30 Hz to 16 kHz
Fast-forward 90 sec (C-60)
Rewind 90 sec (C-60)
Noise red. Dolby
Input sens. 60 mV (line); 0.25 mV (mic)
Output level 650 mV
Impedance 2.2K ohms
Min. load 22K ohms
Meters Peak-reading fluorescent bar graph meters
Features
Vertical drive; memory auto play system; timer standby; oil-damped cassette eject door; 3-position bias and equalization selectors
Tape #1 CrO2
R/P reap. 30 Hz to 17 kHz
S/N 57 dB/67 dB (w/NR)

A Note on Prices

Prices shown in these pages are manufacturers' or importers' suggested retail values, updated as is feasible by press time. They may be subject to variation in different locales and to discounts among different retailers.
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Heads</th>
<th>Impedance</th>
<th>Output Level</th>
<th>Input Sens.</th>
<th>Noise Red.</th>
<th>Separation</th>
<th>Models also available</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC-2460</td>
<td>$170</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>40 dB</td>
<td>PC-3460, $230</td>
</tr>
<tr>
<td>TC-920B</td>
<td>$600</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>TC-720, $600, TC-520, $320, TC-320, $240</td>
</tr>
<tr>
<td>UHER</td>
<td>$550</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>UHER, Mineroff Electronics, Inc. 946 Downing Road</td>
</tr>
<tr>
<td>CR-240</td>
<td>$1,211</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>CR-200, $1,119, CR-320, $1,190</td>
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<tr>
<td>PC-5460</td>
<td>$370</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>PC-5460, $550, RS-M44, $400, RS-M11, $200</td>
</tr>
<tr>
<td>RS-M7</td>
<td>$175</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>RS-M7, $175, RS-M11, $200</td>
</tr>
<tr>
<td>RS-S10</td>
<td>$600</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>RS-S10, $600, RS-M44, $400</td>
</tr>
<tr>
<td>RS-1030</td>
<td>$650</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>RS-1030, $650, RS-M44, $400</td>
</tr>
<tr>
<td>TOSHIBA</td>
<td>$800</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>TOSHIBA, Toshiba America, Inc. 280 Park Ave. New York</td>
</tr>
<tr>
<td>TAKANISHI</td>
<td>$1,000</td>
<td>2</td>
<td>50K ohms</td>
<td>500 mV</td>
<td>70 mV (line); 0.25 mV (mic)</td>
<td>Dolby</td>
<td>30 dB</td>
<td>TAKANISHI, TAKANISHI, $1,000</td>
</tr>
</tbody>
</table>

**A Note on Prices**

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Speaker Systems

ACCUCLAB
Acclab
8116 Deering Ave.
Canoga Park, Calif. 91304

440
Price $250
Dimensions 25½H x 14⅞W x 11D
Weight 38 lbs.
Type Acoustic suspension
Drivers 12" woofer; 3¼" midrange; 2¾" tweeter; 3½" piezo super-tweeter
Response 33 Hz to 30 kHz; ±4 dB re 91 dB SPL at 1 meter
Crossover 3.3 Hz; 7.5 kHz
Impedance 8 ohms
Min. power 5 watts (7 dBW)
Max. power 50 watts (17 dBW)
Features Controlled dispersion

340
Price $220
Dimensions 25½H x 14⅞W x 11D
Weight 39 lbs.
Type Acoustic suspension
Drivers 12" woofer; 3¾" midrange; 2¾" tweeter
Response 33 Hz to 18.5 kHz; ±4 dB re 91 dB SPL at 1 meter
Crossover 3.3 Hz; 7.5 kHz
Impedance 8 ohms
Min. power 4 watts (6 dBW)
Max. power 40 watts (16 dBW)
Features Controlled dispersion

220
Price $150
Dimensions 22½H x 13W x 10½D
Weight 26 lbs.
Type Acoustic suspension
Drivers 10" woofer; 2¾" tweeter
Response 40 Hz to 18.5 kHz; ±4.5 dB re 90 dB SPL at one meter at one watt
Crossover 6.5 kHz
Impedance 8 ohms
Min. power 4 watts (6 dBW)
Max. power 20 watts (13 dBW)
Features Controlled dispersion

Models also available $320, $175

ACOUSTIC 626
Acoustic Control Corp.
7949 Woodley Ave.
Van Nuys, Calif. 91406

648
Price $749
Dimensions 29H x 23W x 21D
Weight 110 lbs.
Type Vented
Drivers Two 15" woofers; midrange horn and driver; 3½" dome tweeter
Response 35 Hz to 22 kHz; ±3 dB
Crossover 2 kHz; 8 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 200 watts (23 dBW) at 8 ohms
Features Circuit breaker protection on tweeter

626
Price $319
Dimensions 24½H x 16½W x 11D
Weight 40 lbs.
Type Vented
Drivers 12" woofer; 5" midrange; 3½" dome tweeter
Response 35 Hz to 22 kHz; ±3 dB
Crossover 1.2 kHz; 6 kHz
Impedance 4 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW) at 8 ohms
Controls Midrange; tweeter
Features Circuit breaker protection for midrange and tweeter

ACOUSTICAL ENGINEERING
Acoustical Engineering
P.O. Box 60221
Sunnyvale, Calif. 94088

Mach IV
Price $995
Dimensions 41H x 42W x 30D (at sides)
Weight 150 lbs.
Type Corner horn
Drivers 15" woofer; 8" midrange; two horn tweeters
Response 16 Hz to 20 kHz; ±5 dB
Crossover 400 Hz; 2.5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 100 watts (20 dBW)
Controls L-pad
Features Contains integral amplifier

Models also available

Mini Corner Horn
Price $495
Dimensions 24H x 18W x 12D (at sides)
Weight 75 lbs.
Type Corner horn
Drivers 8" woofer; 4" midrange; horn tweeter
Response 32 Hz to 18 kHz
Crossover 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 10 watts (10 dBW)
Max. power 60 watts (17.5 dBW)
Features Same as Mach IV

The "Mule"
Price $295
Dimensions 24H x 13¾W x 12D
Weight 35 lbs.
Type Vented
Drivers 10" woofer; 4" midrange, horn tweeter
Response 40 Hz to 18 kHz; ±5 dB
Crossover 800 Hz; 5 kHz
Impedance 8 ohms
Min. power 5 watts (5 dBW)
Max. power 40 watts (16 dBW)
Features Tweeter potentiometer
Features Dark wood finish with black grille-cloth

Models also available 5, $795 (in flat black finish, $695)

ACOUSTI-PHASE
Acousti-Phase
P.O. Box 207
Proctor ville, Vt. 05153

Disco II
Price $449.95
Dimensions 29H x 18W x 15 ⅛D
Weight 75 lbs.
Type Bass reflex
Drivers 15" woofer, 2 midrange horns, 4 super horn tweeters
Response 28 Hz to 30 kHz; ±3 dB
Crossover 900 Hz; 3 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)

Models also available

### Phase Monitor

<table>
<thead>
<tr>
<th>Price</th>
<th>$189.95</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>25H x 15W x 14D</td>
</tr>
<tr>
<td>Weight</td>
<td>47 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer, 1&quot; Mylar dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>38 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>2 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 to 8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>70 watts (18.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Circuit breaker</td>
</tr>
</tbody>
</table>

### Microphase

<table>
<thead>
<tr>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>127H x 101W x 8D</td>
</tr>
<tr>
<td>Weight</td>
<td>19 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>6½&quot; woofer, 1&quot; Mylar dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>48 Hz to 20 kHz, ±4.5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 to 8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>30 watts (14.75 dBW)</td>
</tr>
</tbody>
</table>

### Models also available

- **Phase II**: $229.95
- **Phase I**: $139.95

### ACOUSTIQUE 3A

- **Acoustique 3A International, Inc.**, 871 Montée de Liesse, St. Laurent, Montreal, P.Q., Canada

### TRIPHONIC SYSTEMS

<table>
<thead>
<tr>
<th>Reference</th>
<th>$2,900</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>47H x 13W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>110 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic pressure feedback bi-amplified</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 11&quot; special woofers; 8&quot; cone and 2&quot; dome midrange. Equiphase flat ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 40 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 ohms</td>
</tr>
<tr>
<td>Controls</td>
<td>Room control adjustment</td>
</tr>
<tr>
<td>Features</td>
<td>Preamplifier required; anechoic response supplied with speaker</td>
</tr>
</tbody>
</table>

### TR-1000 Bass Module

<table>
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<tr>
<th>Price</th>
<th>$1,800</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>47H x 27W x 12D</td>
</tr>
<tr>
<td>Weight</td>
<td>220 lbs</td>
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<tr>
<td>Type</td>
<td>Acoustic pressure feedback</td>
</tr>
<tr>
<td>Drivers</td>
<td>Three 11&quot; feedback woofers</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 100 kHz; ±1.5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>100 Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>400 ohms</td>
</tr>
<tr>
<td>Controls</td>
<td>Rock/linear switch; efficiency adjustment</td>
</tr>
<tr>
<td>Features</td>
<td>Unit is in coffee-table configuration, includes 150-watt (21.75 dBW) built-in amplifier, microphone, and VU meter</td>
</tr>
</tbody>
</table>

### Atom 2 Triphonic Satellite

<table>
<thead>
<tr>
<th>Price</th>
<th>$600/pr.</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>19H x 9W x 3D</td>
</tr>
<tr>
<td>Weight</td>
<td>10 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Peripheral laminar decomposition</td>
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<tr>
<td>Drivers</td>
<td>6½&quot; midrange; flat-ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>100 Hz to 40 kHz, ±2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Time-aligned; laminated back wave through flat tunnel</td>
</tr>
</tbody>
</table>

### Andante Linear

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>18H x 12W x 8D</td>
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<tr>
<td>Weight</td>
<td>50 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic pressure feedback</td>
</tr>
<tr>
<td>Drivers</td>
<td>11&quot; special woofers; 2&quot; dome midrange; ½&quot; ferrofluid dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>25 Hz to 30 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>400 Hz, 6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Room control; 4-position equalizer</td>
</tr>
<tr>
<td>Features</td>
<td>120 watts (20.75 dBW) built-in amplifier; anechoic response supplied with speaker</td>
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</table>

### Allegro

<table>
<thead>
<tr>
<th>Price</th>
<th>$539</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>37H x 13W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>100 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic doublet (3A patent)</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 11&quot; woofers; 6½&quot; ¾&quot; cone midrange, 2 horn tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz; 6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>High efficiency; anechoic response supplied with speaker</td>
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</tbody>
</table>

### Apogee Monitor

<table>
<thead>
<tr>
<th>Price</th>
<th>$449</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>31H x 12W x 13D</td>
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<tr>
<td>Weight</td>
<td>45 lbs</td>
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<tr>
<td>Type</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Drivers</td>
<td>11&quot; woofer, ½&quot; dome midrange driver, 4½&quot; 3A hemispheric ferrofluid dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 30 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.2 kHz; 7 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Time-aligned</td>
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</table>

### Allegretto Mk II

<table>
<thead>
<tr>
<th>Price</th>
<th>$375</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>31H x 12W x 12D</td>
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<tr>
<td>Weight</td>
<td>34 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
</tbody>
</table>

### Drivers

- **Woofer**: 10" horn midrange, horn tweeter
- **Response**: 85 Hz to 22 kHz, ±3 dB re 94 dB SPL at 1 meter at 1 watt
- **Crossover**: 1.5 kHz; 6 kHz
- **Impedance**: 8 ohms
- **Min. power**: 5 watts (7 dBW)
- **Max. power**: 80 watts (19 dBW)
- **Controls**: Midrange
- **Features**: Controlled damping; anechoic response supplied with speaker

### Alphase

<table>
<thead>
<tr>
<th>Price</th>
<th>$179</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>21H x 10W x 10D</td>
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<tr>
<td>Weight</td>
<td>32 lbs</td>
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<tr>
<td>Type</td>
<td>Dynamic</td>
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<tr>
<td>Drivers</td>
<td>8&quot; woofer, ½&quot; dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>55 Hz to 30 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>5 kHz</td>
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<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>None</td>
</tr>
</tbody>
</table>

### Models also available

- **TR-1200 Bass Module**: $1,665
- **TR-800 Bass Module**: $1,300
- **Atom 3 Triphonic Satellite**: $660/pr.; **Andante Master Control**, $1,000; **Adagio**, $559; **Prelude**, $499, **Auditorat**, $299, **Apogee Mk II**, $249, **Alto**, $219

### ACUSTICA CRAFT

**Acusta Craft**

P.O. Box 12030

Shawnee Mission, Kans. 66212

### CV-19

<table>
<thead>
<tr>
<th>Price</th>
<th>$249 (kit), $299 (assembled)</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>44H x 161W x 124D</td>
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<tr>
<td>Weight</td>
<td>95 lbs</td>
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<tr>
<td>Type</td>
<td>Vacuum</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer, two 6&quot; midrange drivers; horn tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>42 Hz to 15 kHz, ±3 dB re 96 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>400 Hz; 4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Constant-voltage crossover networks</td>
</tr>
</tbody>
</table>

### CVW-10 Bass Module

<table>
<thead>
<tr>
<th>Price</th>
<th>$239 (kit), $299 (assembled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21½H x 21W x 21D</td>
</tr>
<tr>
<td>Weight</td>
<td>70 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; woofers</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 100 Hz, ±3 dB re 91 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>100 Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>250 watts (24 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Constant-voltage crossover</td>
</tr>
</tbody>
</table>

### CVS-3 Satellite Panel

<table>
<thead>
<tr>
<th>Price</th>
<th>$224 (kit), $285 (assembled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>42H x 17W x 5½D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer, 6&quot; midrange, horn tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>65 Hz to 15 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>400 Hz; 4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>175 watts (22 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
</tbody>
</table>

---

High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustique 3A Allegro</td>
<td>$165 (vinyl kit); $185 (walnut kit); $215 (assembled)</td>
<td>30H x 16½W x 11¾D</td>
<td>60 lbs</td>
<td>Vented</td>
<td>10&quot; woofers, 6&quot; midrange, horn tweeter</td>
<td>42 Hz to 15 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>20 watts (13 dBW)</td>
<td>175 watts (22.5 dBW)</td>
<td>Slimline panel styling</td>
</tr>
<tr>
<td>Acoustic Craft CV-3</td>
<td>$120 (vinyl kit); $135 (walnut kit); $160 (assembled), CV-12, $90 (vinyl kit); $105 (walnut kit); $130 (assembled), CV-5 Satellite Panel, $65 (kit); $65 (assembled), Model 6, $55 (kit); $75 (assembled)</td>
<td>60H x 13W x 12D</td>
<td>4 lbs</td>
<td>Infinite baffle</td>
<td>1 kHz</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>60 watts (60 dB)</td>
<td>Constant-voltage crossover networks; slimline panel styling</td>
<td></td>
</tr>
<tr>
<td>CVS-2 Satellite Panel</td>
<td>$125 (kit); $150 (assembled)</td>
<td>21½H x 12W x 5½D</td>
<td>24 lbs</td>
<td>Acoustic suspension</td>
<td>8&quot; woofer, 6&quot; midrange, 1&quot; dome tweeter</td>
<td>70 Hz to 20 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>125 watts (21 dBW)</td>
<td>Constant-voltage crossover networks</td>
</tr>
<tr>
<td>Model 10</td>
<td>$64 (vinyl kit); $74 (walnut kit); $90 (assembled)</td>
<td>18¼H x 11¼W x 9¼D</td>
<td>30 lbs</td>
<td>Acoustic suspension</td>
<td>8&quot; woofer/midrange, 1&quot; dome tweeter</td>
<td>65 Hz to 20 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>60 watts (17.75 dBW)</td>
<td>Constant-voltage crossover networks; slimline panel styling</td>
</tr>
</tbody>
</table>

**ADCOM**

**Adcom Co.**

11A Jules Lane
New Brunswick, N.J. 08901

**GFW-1 Subwoofer**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$229.95 (vinyl); $289.95 (walnut)</td>
<td>15½H x 17½W x 17½D</td>
<td>36 lbs</td>
<td>Infinite baffle</td>
<td>10&quot; long-throw woofer</td>
<td>22 Hz to 150 Hz, ±3 dB re 86 dB SPL at 1 meter at 1 watt</td>
<td>4 ohms</td>
<td>20 watts (13 dBW)</td>
<td>120 watts (20.75 dBW)</td>
<td>Two-way passive crossover built in; terminals for input from amp and output to satellites; a phasing switch provided to increase installation flexibility; compact, end-table style</td>
</tr>
</tbody>
</table>

**L-630**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$285</td>
<td>25½H x 14 13/16W x 11¼D</td>
<td>42 lbs</td>
<td>Acoustic suspension</td>
<td>1&quot; soft-dome tweeter, 1½ soft-dome midrange, 10&quot; woofer</td>
<td>22 Hz to 22 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms nominal, 6 ohms minimum</td>
<td>20 watts (13 dBW)</td>
<td>200 watts (23 dBW)</td>
<td>Optional black metal base</td>
</tr>
</tbody>
</table>

**520**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$150</td>
<td>21½H x 12½W x 10¼D</td>
<td>50 lbs</td>
<td>Acoustic suspension</td>
<td>8&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>26 Hz to 22 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>Fused tweeter; drivers flush-mounted</td>
</tr>
</tbody>
</table>

**SERIES II**

**ADS 810**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$370</td>
<td>25½H x 14½W x 11½D</td>
<td>46 lbs, 8 oz</td>
<td>Acoustic suspension</td>
<td>2&quot; soft-dome midrange, 3¾&quot; soft-dome tweeter</td>
<td>35 Hz to 23 kHz, ±3 dB, 20 Hz to 30 kHz, ±5 dB</td>
<td>6 ohms</td>
<td>20 watts (13 dBW)</td>
<td>200 watts (23 dBW)</td>
<td>Optional speaker stand; drivers flush-mounted for minimum diffraction</td>
</tr>
</tbody>
</table>

**ADS 2001**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$599/pr</td>
<td>4½H x 6½W x 4½D</td>
<td>4 lbs</td>
<td>Acoustic suspension</td>
<td>4&quot; woofer, 1&quot; dome tweeter</td>
<td>70 Hz to 20 kHz, ±3 dB, 50 Hz to 22 kHz, ±5 dB</td>
<td>47K ohms</td>
<td>60 watts (17.5 dBW) continuous for woofer, 20 watts (13 dBW) continuous for tweeter (built-in)</td>
<td>Optional speaker stand; drivers flush-mounted for minimum diffraction</td>
<td></td>
</tr>
</tbody>
</table>

**300C**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$150</td>
<td>8½H x 5¼W x 5¼D</td>
<td>7 lbs</td>
<td>Acoustic suspension</td>
<td>5¼&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>40 Hz to 23 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt</td>
<td>4 ohms</td>
<td>75 watts (18.75 dBW)</td>
<td>75 watts (18.75 dBW)</td>
<td>Solid aluminum miniature speakers with swivel brackets for car installation</td>
</tr>
</tbody>
</table>

**300**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$145</td>
<td>8½H x 5¼W x 5¼D</td>
<td>7 lbs</td>
<td>Acoustic suspension</td>
<td>5¼&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>40 Hz to 23 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt</td>
<td>4 ohms</td>
<td>75 watts (7 dBW)</td>
<td>75 watts (18.75 dBW)</td>
<td>Solid aluminum loudspeaker</td>
</tr>
<tr>
<td>Model</td>
<td>Price</td>
<td>Dimensions</td>
<td>Weight</td>
<td>Type</td>
<td>Drivers</td>
<td>Impedance</td>
<td>Min. power</td>
<td>Max. power</td>
<td>Features</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>------------</td>
<td>--------</td>
<td>------</td>
<td>---------</td>
<td>-----------</td>
<td>------------</td>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td>Advent/1</td>
<td>$120</td>
<td>22H x 131/4W x 91/4D</td>
<td>30 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; woofer; 1&quot; dome tweeter</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>Available upon request</td>
<td>3-way high-frequency balance switch</td>
</tr>
<tr>
<td>Advent/2</td>
<td>$89</td>
<td>191/2H x 111/4W x 71/4D</td>
<td>18 lbs</td>
<td>Acoustic suspension</td>
<td>9&quot; woofer; two 1½&quot; cone tweeters</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>Available upon request</td>
<td>3-way high-frequency balance switch</td>
</tr>
</tbody>
</table>

**Models also available**

- **SW-177 II**
  - Price: $395
  - Dimensions: 271/4H x 171/4W x 121/4D
  - Weight: 46 lbs.
  - Type: Dynamic
  - Drivers: 15" woofer; 5½" midrange; two 1½" tweeters
  - Response: 25 Hz to 20 kHz; ±3 dB
  - Crossover: 700 Hz; 5 kHz
  - Impedance: 8 ohms
  - Min. power: 40 watts (16 dBW)
  - Max. power: 100 watts (20 dBW)
  - Controls: Midrange; tweeter

- **SW-137 II**
  - Price: $200
  - Dimensions: 231/4H x 131/4W x 111/4D
  - Weight: 26 lbs.
  - Type: Dynamic
  - Drivers: 10" woofer; 5" midrange; 1½" tweeter
  - Response: 40 Hz to 20 kHz; ±3 dB
  - Crossover: 1.2 kHz; 5 kHz
  - Impedance: 8 ohms
  - Min. power: 20 watts (13 dBW)
  - Max. power: 40 watts (16 dBW)
  - Controls: Midrange

- **SW-7**
  - Price: $160/pr.
  - Dimensions: 84H x 51/2W x 51/2D
  - Weight: 11 lbs/pr.
  - Type: Dynamic
  - Drivers: 5" woofer; 2" horn tweeter
  - Response: 55 Hz to 22 kHz
  - Crossover: 10 kHz
  - Impedance: 4 ohms
  - Max. power: 40 watts (16 dBW)

**ALLISON**

**Allison Acoustics, Inc.**

- **7 Tech Circle**
- **Natick, Mass. 01760**

**Allison: One**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>$240</td>
<td>40H x 19W x 104D</td>
<td>67 lbs</td>
<td>Dynamic, acoustic suspension</td>
<td>Two 10&quot; woofers; two 3½&quot; midrange units; two 1½&quot; tweeters</td>
<td>Complete specifications available</td>
<td>350 Hz; 3.75 kHz</td>
<td>8 ohms</td>
<td>30 watts (14.75 dBW) per channel for 100 dB SPL</td>
<td>Representative S/N: better than 100 dB</td>
<td></td>
</tr>
</tbody>
</table>

**Electronic Subwoofer**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$290</td>
<td>2H x 141/4W x 41/4D</td>
<td>Three low-frequency boost curves with turnover (+3 dB) points at 35.5 Hz, 41 Hz, and 48 Hz; infrasonic and ultrasonic filters slope at 18 dB/octave below 20 Hz and above 20 kHz; A-weighted S/N is better than 100 dB</td>
</tr>
</tbody>
</table>

**Akai America, Ltd.**

- **2139 E. Del Amo Blvd.**
- **P.O. Box 6010**
- **Compton, Calif. 90224**

**AKAI**

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW-137 II</td>
<td>$295</td>
<td>191/2H x 111/4W x 71/2D</td>
<td>22 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; woofer; 1½&quot; dome tweeter</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>Available upon request</td>
<td>3-way high-frequency balance switch</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Advent Corp.**

- **195 Albany St.**
- **Cambridge, Mass. 02139**

**ADVENT**

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Advent</td>
<td>$179 (wood cabinet); $155 (vinyl-clad utility cabinet)</td>
<td>70 lbs</td>
<td>Blampedified acoustic suspension</td>
<td>10&quot; woofer; 1½&quot; dome tweeter</td>
<td>15 kHz</td>
<td>Available upon request</td>
<td>15 watts (11.75 dBW)</td>
<td>Available upon request</td>
<td>Integral amplifier with infrasonic filter</td>
</tr>
</tbody>
</table>

**Acoustic Suspension**

- **710, $285; ADS 2002, $470/pr.**
- **290C, $118; ADS 200, $131**

**Allison: Five**

- **Price: $160**
- **Dimensions: 11H x 181/4W x 10D**
- **Weight: 21 lbs.**
- **Type: Dynamic, acoustic suspension**
- **Drivers: 8" woofer, 1" tweeter**
- **Response: Complete specifications available**
- **Crossover: 2 kHz**
- **Impedance: 4 ohms**
- **Min. power: 15 watts (11.75 dBW) per channel for 97 dB SPL**
- **Max. power: 100 watts (20 dBW)**
- **Controls: High-frequency balance switch**
- **Features: Stabilized Radiation Loading* enclosure design; Vienna Digram mid and tweeter units; full warranty for five years ("covered by U.S. and foreign patents)
### Nineteen

<table>
<thead>
<tr>
<th>Price</th>
<th>$799.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>39W x 30W x 21D</td>
</tr>
<tr>
<td>Weight</td>
<td>143 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex; vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>15&quot; bass; compression driver mounted to sectoral horn with the new Tangerine Radial phase plug</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>65 watts (18 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>High mid-frequency attenuator</td>
</tr>
<tr>
<td>Features</td>
<td>Hand-rubbed oiled walnut or oak</td>
</tr>
</tbody>
</table>

### American Acoustics Lab

#### AAL Speaker Systems

- **Models also available**
  - Eighteen, $749.95; Seven Series II, $299.95; Five Series II, $199.95; Three Series II, $169.95

**Apollo 8853**

<table>
<thead>
<tr>
<th>Price</th>
<th>$159</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>37H x 13W x 11D</td>
</tr>
<tr>
<td>Weight</td>
<td>39 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Powered</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 8&quot; foam surround woofers; 2&quot; cone phenolic ring tweeter</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>55 watts (17.5 dBW)</td>
</tr>
</tbody>
</table>

**Apollo 2712**

<table>
<thead>
<tr>
<th>Price</th>
<th>$119</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>27H x 16W x 11D</td>
</tr>
<tr>
<td>Weight</td>
<td>36 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; foam surround woofer: 5¼&quot; cone midrange; 2&quot; cone phenolic ring tweeter</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>40 watts (16 dBW)</td>
</tr>
</tbody>
</table>

**Classic 120**

<table>
<thead>
<tr>
<th>Price</th>
<th>$349</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>35H x 14W x 11D</td>
</tr>
<tr>
<td>Weight</td>
<td>58 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; foam surround woofers: 5&quot; cone midrange; 3&quot; cone tweeter</td>
</tr>
<tr>
<td>Impedance</td>
<td>1.5 kHz; 7 kHz</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>120 watts (20.75 dBW)</td>
</tr>
</tbody>
</table>

**Classic 110**

<table>
<thead>
<tr>
<th>Price</th>
<th>$199</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>23H x 14W x 11D</td>
</tr>
<tr>
<td>Weight</td>
<td>34 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; foam surround woofer: 5&quot; cone midrange; 3&quot; cone tweeter</td>
</tr>
<tr>
<td>Impedance</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz; 7 kHz</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>55 watts (17.5 dBW)</td>
</tr>
</tbody>
</table>

**Super Jock**

<table>
<thead>
<tr>
<th>Price</th>
<th>$625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>57H x 24W x 28D</td>
</tr>
<tr>
<td>Weight</td>
<td>205 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Horn labyrinth</td>
</tr>
<tr>
<td>Drivers</td>
<td>15&quot; accordion surround woofer; 8 x 18 radial horn w/60 wt. compression drive; four 3-inch solid-state piezoelectric tweeters</td>
</tr>
</tbody>
</table>

**Disco Tower, Series II**

<table>
<thead>
<tr>
<th>Price</th>
<th>$450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>46½H x 21W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>135 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Powered</td>
</tr>
<tr>
<td>Drivers</td>
<td>15½/12&quot; foam surround woofers; four 3&quot; solid-state piezoelectric tweeters</td>
</tr>
<tr>
<td>Impedance</td>
<td>30 Hz to 25 kHz</td>
</tr>
</tbody>
</table>

**Pro RH-9040**

<table>
<thead>
<tr>
<th>Price</th>
<th>$990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>41½H x 19W x 32D</td>
</tr>
<tr>
<td>Weight</td>
<td>83 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Direct radiating</td>
</tr>
<tr>
<td>Response</td>
<td>400 Hz to 10 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
</tbody>
</table>

**Pro MT-70**

<table>
<thead>
<tr>
<th>Price</th>
<th>$450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>11H x 30W x 11½D</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Direct radiating</td>
</tr>
<tr>
<td>Response</td>
<td>1.2 kHz to 25 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
</tbody>
</table>

**Pro MS-12**

<table>
<thead>
<tr>
<th>Price</th>
<th>$210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>23½H x 16W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>35 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Direct radiating</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; accordion surround woofer; 3&quot; solid-state piezoelectric tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>100 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>5 kHz</td>
</tr>
<tr>
<td>Min. power</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>250 watts (24 dBW)</td>
</tr>
</tbody>
</table>

**STUDIO SERIES**

**Studio 400**

<table>
<thead>
<tr>
<th>Price</th>
<th>$239</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>35H x 14½W x 11½D</td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; foam surround woofers; 2½&quot; frame cone tweeter</td>
</tr>
</tbody>
</table>

1980 Edition
<table>
<thead>
<tr>
<th><strong>Models also available</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Apollo 2915, $169; Apollo 830, $49; Classic 112, $293; CLASSIC 108, $149; PRO W-215, $276; PRO W-212, $640; PRO BH-15, $510; Pro MS-212, $370; Pro SC-410, $320; Studio 500, $259; Studio 300, $199; Studio 90, $99</td>
</tr>
<tr>
<td><strong>AR Acoustic Research</strong></td>
</tr>
<tr>
<td><strong>10 American Drive</strong></td>
</tr>
<tr>
<td><strong>Norwood, Mass. 02062</strong></td>
</tr>
<tr>
<td><strong>AR-14</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Drivers</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
</tr>
<tr>
<td><strong>Min. power</strong></td>
</tr>
<tr>
<td><strong>Max. power</strong></td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>AR-25</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Drivers</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
</tr>
<tr>
<td><strong>Min. power</strong></td>
</tr>
<tr>
<td><strong>Max. power</strong></td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>AR-9</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Drivers</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
</tr>
<tr>
<td><strong>Min. power</strong></td>
</tr>
<tr>
<td><strong>Max. power</strong></td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>AR-91</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Drivers</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
</tr>
<tr>
<td><strong>Min. power</strong></td>
</tr>
<tr>
<td><strong>Max. power</strong></td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>AR-92</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Drivers</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
</tr>
<tr>
<td><strong>Min. power</strong></td>
</tr>
<tr>
<td><strong>Max. power</strong></td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>Models also available</strong></td>
</tr>
<tr>
<td>AR-18, $78 ea. (sold only in pairs); AR-90, $550</td>
</tr>
</tbody>
</table>

**VerticaL Series**

| **AR** |
| **900 Research Blvd.** |
| **Austin, Tex. 78758** |
| **SW-B Monolith TL Subwoofer** |
| **Price** | $1,100 |
| **Dimensions** | 58H x 25W x 20D |
| **Weight** | 250 lbs. |
| **Type** | Transmission line |
| **Drivers** | Two 10" woofers |
| **Response** | 14 Hz to 200 Hz, ±2 dB re 93 dB |
| **Impedance** | 8 ohms |
| **Min. power** | 15 watts (11.75 dBW) |
| **Max. power** | 400 watts (26 dBW) |
| **Features** | Hand-tuned for optimum response |
| **TDC-210** |
| **Price** | $449 |
| **Dimensions** | 41H x 15 1/2W x 15 1/2D |
| **Weight** | 80 lbs. |
| **Type** | Vented |
| **Drivers** | Two 10" woofers; 1 1/2" midrange; 1" soft-dome tweeter |
| **Response** | 40 Hz to 20 kHz, ±3 dB re 93 dB |
| **Impedance** | 6 ohms |
| **Min. power** | 15 watts (11.75 dBW) |
| **Max. power** | 200 watts (23 dBW) |
| **Controls** | Midrange |
| **Features** | Time-delay correction; staggered-plane mounting; phase-compensated integrating network, Mylar capacitors |

**Audioc elec**

| **Audioco, Inc.** |
| **900 Research Blvd.** |
| **Austin, Tex. 78758** |
| **A-10W** |
| **Price** | $259 |
| **Dimensions** | 28H x 14W x 15D |
| **Weight** | 60 lbs. |
| **Type** | Vented |
**Type** A-10SA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>10&quot; woofer, 1½&quot; midrange dome; 1&quot; soft-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>39 Hz to 20 kHz, +3.0 dB re 90 dB SRL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.2 kHz; 6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>125 watts (21 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange, tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Mirror-image pairs; Mylar capacitors</td>
</tr>
</tbody>
</table>

**Price** $149; $161 with stand

---

**AAL Apollo Series 8853**

**Type** Non-inertial plate

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Dual Barcus-Berry Audio Plate® drivers</td>
</tr>
<tr>
<td>Response</td>
<td>2 kHz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>0.5 watt (-3 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Attenuation</td>
</tr>
<tr>
<td>Features</td>
<td>Wide-area dispersion of high frequencies; designed to supplement or replace tweeter in existing speaker systems; can be added to speaker system in minutes; no soldering or special tools needed; furnished in solid walnut cabinet</td>
</tr>
</tbody>
</table>

**Price** $149; $161 with stand

---

**Audio Pro B2-50**

**Type** Acoustic suspension

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>8&quot; woofer; 1½&quot; dispersion phenolic dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>60 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms (nominal)</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Treble (3-position switch for normal +3 dB)</td>
</tr>
</tbody>
</table>

**Price** $129

**Dimensions** 21 3/10H x 11 3/5W x 9 1/10D

**Weight** 21 lbs.

**Type** Acoustic suspension

**Drivers** 8" woofer; 1½" dispersion phenolic dome tweeter

---

**Models also available**

- A-10SA
- AAL Apollo Series 8853
- Audio Pro B2-50

---

**AUDIO LAB CONSORT**

**Unitronex Corp.** 1171 Landmeier Road Elk Grove Village, Ill. 60007

**AL-20**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Dual Barcus-Berry Audio Plate® drivers</td>
</tr>
<tr>
<td>Response</td>
<td>2 kHz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>0.5 watt (-3 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Attenuation</td>
</tr>
<tr>
<td>Features</td>
<td>Wide-area dispersion of high frequencies; designed to supplement or replace tweeter in existing speaker systems; can be added to speaker system in minutes; no soldering or special tools needed; furnished in solid walnut cabinet</td>
</tr>
</tbody>
</table>

**Price** $149; $161 with stand

---

**AL-60**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Biamplified, with built-in subwoofer</td>
</tr>
<tr>
<td>Response</td>
<td>32 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>140 watts (21.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Treble; midrange (3-position switch for normal or +3 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Same as Model AL-40</td>
</tr>
</tbody>
</table>

**Price** $359

**Dimensions** 26 4/5H x 17 3/10W x 12 3/5D

**Weight** 61 lbs. 11 oz.

---

**AL-40**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Biamplified, with built-in subwoofer</td>
</tr>
<tr>
<td>Response</td>
<td>32 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>140 watts (21.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Treble; midrange (3-position switch for normal or +3 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Same as Model AL-40</td>
</tr>
</tbody>
</table>

**Price** $259

**Dimensions** 25 1/5H x 16 3/5W x 11 1/5D

**Weight** 48 lbs. 10 oz.

---

**AL-20**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Passive radiator</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>90 watts (19.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Treble (3-position switch for normal or +3 dB)</td>
</tr>
<tr>
<td>Features</td>
<td>Cabinet finished in real mahogany veneer with snap-on black acoustic front panel; 1½&quot; high density particle board; 1½&quot; thick polyurethane foam acoustic insulation throughout inside of cabinet; 10-year consumer warranty; completely sealed midrange providing total acoustic isolation from woofer</td>
</tr>
</tbody>
</table>

**Price** $129

**Dimensions** 21 3/10H x 11 3/5W x 9 1/10D

**Weight** 21 lbs.

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**Models also available**

- AL-30, $159
- AL-40, $161
- AL-60, $199
- AL-20, $259
- AL-40, $259
- AL-20, $299
- AL-60, $359
- AL-40, $359

---

**AUDIOPLATE**

**Barcus Berry, Inc.** 15461 Springdale St. Huntington Beach, Calif. 92649

**Model 36 Add-on Tweeter**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$200/pr.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7H x 7W x 3½D</td>
</tr>
<tr>
<td>Weight</td>
<td>4 lbs. 8 oz.</td>
</tr>
</tbody>
</table>

---

**AUDIO PRO**

**Intersearch, Inc.** 4720-Q Boston Way Lanham, Md. 20801

**A4-14**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Two 5&quot; bass drivers; ½&quot; midrange; 1½&quot; dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>10K ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>1 watts (60 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Volume; bass; bass blend</td>
</tr>
<tr>
<td>Features</td>
<td>Automatic on/off</td>
</tr>
</tbody>
</table>

**Price** $1,600/pr.

**Dimensions** 20 ⅞H x 12 ½W x 10 ¼D

**Weight** 35 lbs.

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**AUDIO PULSE**

**Audio Pulse Electronics, Inc.** 4323 North Arden Drive El Monte, Calif. 91731

**B2-50**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Two 6½&quot; subwoofer with built-in amplifier and variable crossover filters</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 0.2 kHz, +0, -3 dB re 96 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Impedance</td>
<td>10K ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>0.25 microwatts (-6 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Volume</td>
</tr>
<tr>
<td>Features</td>
<td>Separate crossover frequency for subwoofer and satellites</td>
</tr>
</tbody>
</table>

**Price** $795

**Dimensions** 21 ⅛H x 18 3/16W x 17 7/16D

**Weight** 64 lbs.

---

**Models also available**

- B2-50, $129
- A4-14, $159
- A14-14, $199
- A40, $259
- A60, $359
- B2-50, $495
- B2-50, $595
- B2-50, $695
- B2-50, $795

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1980 Edition
# Buying Guide to Stereo Components

**AP-102**

| Price  | $175 |
| Dimensions | 35H x 8 4/5 W x 8 4/5 D |
| Weight | 25 lbs, 8 oz |
| Type | Ducted port |
| Drivers | Two 6" high-exursion woofers; two 2 1/4" cone tweeters |
| Response | 40 Hz to 30 kHz |
| Impedance | 8 ohms |
| Max. power | 100 watts (20 DBW) |
| Features | One rear-facing tweeter |

**AP-52**

| Price  | $129/pr. |
| Dimensions | 15 1/5H x 11 W x 7 D |
| Weight | 15 lbs |
| Type | Two-way ducted port |
| Drivers | 6" high-exursion woofer/midrange; 2" cone tweeter |
| Response | 80 Hz to 20 kHz |
| Impedance | 8 ohms |
| Max. power | 25 watts (14 DBW) |
| Features | Tilted components |

**AUDIOANALYST**

Audioanalyst, Inc.
South Main Street
P.O. Box 33
Terryville, Conn. 06786

**Phase Matrix M-12**

| Price  | $800 |
| Dimensions | 40H x 13 1/5 W x 16 1/5 D |
| Weight | 115 lbs |
| Type | Acoustic suspension |
| Drivers | Two 10" woofers; three 4 1/2" midrange drivers; three 1 1/2" soft-dome tweeters; two 1/2" phase-match ultra-high-frequency drivers |
| Response | 24 Hz to 25 kHz, ±3 dB re 91 dB SPL at 1 meter at 1 watt |
| Crossover | 200 Hz; 2 kHz; 15 kHz |
| Impedance | 4 ohms |
| Min. power | 15 watts (11.75 DBW) |
| Max. power | 200 watts (23 DBW) |
| Controls | Midrange, tweeter |
| Features | Fused; incorporates Ambient Phase Recovery System, a totally passive image enhancer, adjustable for near and far field listening conditions and is also defeatable |

**Anthem Array**

| Price  | $599 |
| Dimensions | 44H x 15 1/5 W x 15D |
| Weight | 92 lbs |
| Type | Staggered acoustic suspension |
| Drivers | 10" subwoofer; 10" woofer; 4 1/2" midrange; 1" dome tweeter; 3" piezoelectric tweeter |
| Response | 30 Hz to 20 kHz, ±3 dB re 87 dB at 1 meter at 1 watt |
| Crossover | 120 Hz; 450 Hz; 3 kHz; 12 kHz |
| Impedance | 8 ohms |
| Min. power | 20 watts (13 DBW) |
| Max. power | 250 watts (24 DBW) |
| Controls | Midrange, tweeter |
| Features | Midrange fuse; tweeter fuse; piezoelectric output variable; uniform polar response at significant frequencies |

**A-400XL**

| Price  | $359.95 |
| Dimensions | 41 1/5H x 17 4/5 W x 10 1/2 D |
| Weight | 60 lbs |
| Type | Vented |
| Drivers | Four 8" woofers (two are subwoofers); two 1 1/2" midranges; two 1/2" tweeters |
| Response | 28 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt |
| Crossover | 150 Hz; 2 kHz; 10 kHz |
| Impedance | 8 ohms |
| Min. power | 10 watts (10 DBW) |
| Max. power | 200 watts (23 DBW) |
| Features | Drives are aligned utilizing bi-lateral symmetry for minimum interference and optimum dispersion for best imaging |

**Phase Matrix B-1 subwoofer**

| Price  | $279 |
| Dimensions | 27 1/5H x 15 1/5 W x 11 1/2 D |
| Weight | 50 lbs |
| Type | Vented |
| Drivers | 12" woofer |
| Response | 22 Hz to 120 Hz, ±3 dB re 89 dB SPL at 1 meter at 1 watt |
| Crossover | 120 Hz |
| Impedance | 4 ohms |
| Min. power | 10 watts (10 DBW) |
| Max. power | 200 watts (23 DBW) |
| Features | Built-in crossover with direct-coupled bass matrix and level-compensating high-pass filter for upper speaker system |

**M-2**

| Price  | $149 |
| Dimensions | 9 1/4H x 6W x 7D |
| Weight | 8 lbs |
| Type | Acoustic suspension |
| Drivers | 5" woofer; 1" soft-dome tweeter |
| Response | 46 Hz to 20 kHz, +4 dB re 89 dB at 1 meter at 1 watt |
| Crossover | 2 kHz |
| Impedance | 4 ohms |
| Min. power | 10 watts (10 DBW) |
| Max. power | 50 watts (17 DBW) |
| Features | Fused; adaptable for mobile use |

**Models also available**

- A-200X, $339.95; M-6, $299; A-100XL, $207; Phase Matrix M-5, $189; M-4V-II, $139; A-76XL, $117.95 |

**AUDIOMARKETING**

Audiomarketing, Ltd.
10950 S.W. 5th Ave.
Beaverton, Ore. 97005

**LO-2 Foundation Bass**

| Price  | $600 |
| Dimensions | 26 1/5 x 18 W x 3 1/5 D |
| Weight | 110 lbs |
| Type | Vented |
| Drivers | Two 10" push-pull |
| Response | 32 Hz to 20 kHz, ±3 dB re 89 dB SPL at 1 meter at 1 watt |
| Crossover | 125 Hz |
| Impedance | 7 ohms |
| Min. power | 70 watts (18.5 DBW) |
| Max. power | 400 watts (26 DBW) |
| Controls | Crossover bypass |
| Features | Push-pull woofers cancel dynamic IM and harmonic distortion; interchangeable vents for Bessel, QB 3, and B6 alignments (60 Hz-18 Hz) |

**LO-2 Vanishing Point**

| Price  | $350 |
| Dimensions | 14H x 9 W x 9D |
| Weight | 25 lbs |
| Type | Acoustic suspension |
| Drivers | 6 1/4" polymer-saturated cone, 1" damped dome |
| Response | 75 Hz to 20 kHz, ±1 1/2 dB re 88 dB SPL at 1 meter at 1 watt |
| Crossover | 3 kHz |
| Impedance | 7 ohms |
| Min. power | 35 watts (15.25 DBW) |
| Max. power | 200 watts (23 DBW) |
| Controls | Tweeter L-pad, midwoofer L-pad controls level and Q of bass (1.7 to 14 Hz) |
| Features | Minimum time and space spread; Mylar/air-core crossover; resistive load at ultrasonic frequencies for low amp TIM |

**LO-20 Supercine**

| Price  | $940 |
| Dimensions | 24H x 15 1/2 W x 9 1/2 D |
| Weight | 29 lbs |
| Type | Acoustic suspension |
| Drivers | 12" woofer; 4 1/2" dome/cone |
| Response | 20 Hz to 20 kHz |

**Super Red Studio Monitor**

| Price  | $220 |
| Dimensions | 24H x 16W x 12D |
| Weight | 45 lbs |
| Type | Acoustic suspension |
| Drivers | 12" woofer; 1 1/4" dome/cone |
| Response | 40 Hz to 18 kHz, ±2 dB re 92 dB SPL at 1 meter at 1 watt |

**Models also available**

- Big Red Studio Monitor, $816

**AUDIONICS**

Audionics, Inc.
10950 S.W. 5th Ave.
Beaverton, Ore. 97005

**LO-20 Supercine**

| Price  | $220 |
| Dimensions | 24H x 16W x 12D |
| Weight | 45 lbs |
| Type | Acoustic suspension |
| Drivers | 12" woofer; 1 1/4" dome/cone |
| Response | 40 Hz to 18 kHz, ±2 dB re 92 dB SPL at 1 meter at 1 watt |

**LO-2 Vanishing Point**

| Price  | $350 |
| Dimensions | 14H x 9 W x 9D |
| Weight | 25 lbs |
| Type | Acoustic suspension |
| Drivers | 6 1/4" polymer-saturated cone, 1" damped dome |
| Response | 75 Hz to 20 kHz, ±1 1/2 dB re 88 dB SPL at 1 meter at 1 watt |
| Crossover | 3 kHz |
| Impedance | 7 ohms |
| Min. power | 35 watts (15.25 DBW) |
| Max. power | 200 watts (23 DBW) |
| Controls | Tweeter L-pad, midwoofer L-pad controls level and Q of bass (1.7 to 14 Hz) |
| Features | Minimum time and space spread; Mylar/air-core crossover; resistive load at ultrasonic frequencies for low amp TIM |

**AUDIOTEX**

GC Electronics
400 South Wyman St.
Rockford, Ill. 61101

| Price  | $100 |
| Dimensions | 24H x 15W x 9 1/2 D |
| Weight | 29 lbs |
| Type | Acoustic suspension |
| Drivers | 12" woofer; 4 1/2" dome/cone |
| Response | 35 Hz to 20 kHz |

**Models also available**

- Big Red Studio Monitor, $816 |
<table>
<thead>
<tr>
<th>Models also available</th>
<th>94-1300, $90</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AVID</strong></td>
<td></td>
</tr>
<tr>
<td>Avid Corp.</td>
<td></td>
</tr>
<tr>
<td>10 Tripps Lane</td>
<td></td>
</tr>
<tr>
<td>East Providence, R.I.</td>
<td></td>
</tr>
<tr>
<td>02914</td>
<td></td>
</tr>
</tbody>
</table>

**330**
- **Price**: $400
- **Dimensions**: 30 1/4H x 17W x 10 1/4D
- **Weight**: 66 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 12" woofer, 2" dome midrange, 2" dome tweeter
- **Response**: 35 Hz to 20 kHz, ±3 dB re 88 dB SPL at 1 meter
- **Crossover**: 575 Hz, 5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11.75 DB)
- **Max. power**: 250 watts (24 DB)
- **Features**: Midrange, tweeter
- **Controls**: Auto-reset overload protective circuit, full 5-year warranty. Minimum Diffraction Loudspeaker® design; magnetic fluids for midrange and tweeter

**102a**
- **Price**: $165
- **Dimensions**: 25H x 15W x 9 1/4D
- **Weight**: 38 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 10" woofer, 1" dome tweeter
- **Response**: 44 Hz to 18 kHz, ±3 dB
- **Crossover**: 2.2 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11.75 DB)
- **Max. power**: 100 watts (20 DB)
- **Features**: Fused tweeter, full 5-year warranty. Minimum Diffraction Loudspeaker® design

**80a**
- **Price**: $95
- **Dimensions**: 19 3/4H x 12W x 8 3/4D

**Spool S-45/2**
- **Price**: $338/pr.
- **Dimensions**: 18 1/4H x 10 1/2W x 8 D
- **Weight**: 15 lbs. 6 oz.
- **Type**: Pressure chamber
- **Drivers**: 8" bass, 3 1/2" Phase-Link filler driver, 1" dome tweeter
- **Response**: 38 Hz to 20 kHz, ±4 -8 dB
- **Crossover**: 2 kHz
- **Impedance**: 4 ohms
- **Min. power**: 20 watts (13 DB)
- **Max. power**: 45 watts (16.5 DB)
- **Features**: Optional floor stands and wall-mount brackets; linear phase response; rosewood finish standard; oak, teak, or white optional

**Beovox Phase-Link M-100-2**
- **Price**: $1,400/pr. (including stands)
- **Dimensions**: 29 1/2H x 15 3/4W x 12D
- **Weight**: 60 lbs. 8 oz.
- **Type**: Vented
- **Drivers**: 12" bass, 4" Phase-Link filler driver, 2 1/2" dome midrange, 1 1/4" dome tweeter, 3/4" dome super tweeter
- **Response**: 35 Hz to 22 kHz, ±4 dB
- **Crossover**: 500 Hz, 2.5 kHz, 5 kHz
- **Impedance**: 4 ohms
- **Min. power**: 20 watts (13 DB)
- **Max. power**: 100 watts (20 DB)
- **Features**: Electronic protection circuit; linear phase response; rosewood veneer finish

**Beovox Phase-Link M-75**
- **Price**: $980/pr. (including stands)
- **Dimensions**: 25H x 13W x 10 1/2D
- **Weight**: 37 lbs. 6 oz.
- **Type**: Pressure chamber
- **Drivers**: 10" woofer, 4 1/2" Phase-Link filler driver, 2 1/2" dome midrange, 1 1/4" dome tweeter
- **Response**: 38 Hz to 20 kHz, ±4 dB
- **Crossover**: 500 Hz, 4.5 kHz
- **Impedance**: 4 ohms
- **Min. power**: 20 watts (13 DB)
- **Max. power**: 75 watts (18.75 DB)
- **Features**: Electronic protection circuitry; linear phase response; rosewood finish standard, oak or teak optional

**Phase-Link P-45**
- **Price**: $450/pr.
- **Dimensions**: 25H x 13W x 5 1/2D
- **Weight**: 17 lbs. 10 oz.
- **Type**: Pressure chamber
- **Drivers**: Two 5" bass, 3 1/2" Phase-Link filler driver, 1" dome tweeter
- **Response**: 55 Hz to 20 kHz, ±4 dB
- **Crossover**: 2 kHz
- **Impedance**: 4 ohms
- **Min. power**: 20 watts (13 DB)
- **Max. power**: 45 watts (16.5 DB)
- **Features**: Wall-mounting panel speakers; linear phase response; rosewood finish standard, white optional

**Beovox C-75**
- **Price**: $195/pr.
- **Dimensions**: 12 3/16H x 4 3/16W x 7 13/16D
- **Weight**: 11 lbs.
- **Type**: Log line loading
- **Drivers**: Two 4" woofers, 1" dome tweeter

**Phase-Link S-35**
- **Price**: $200/pr.
- **Dimensions**: 18 1/4H x 10W x 7 1/4D
- **Weight**: 13 lbs. 3 oz.
- **Type**: Pressure chamber
- **Drivers**: 8" woofer, 1" dome tweeter
- **Response**: 49 Hz to 20 kHz, ±4 dB
- **Crossover**: 3 kHz
- **Impedance**: 4 ohms
- **Min. power**: 10 watts (10 DB)
- **Max. power**: 40 watts (16 DB)
- **Features**: Bookshelf or wall mount; linear phase response; rosewood veneer finish

**B.E.S. GEOSTATIC**
<table>
<thead>
<tr>
<th>Bertagni Electroacoustic Systems, Inc.</th>
<th>345 Fischer St.</th>
<th>Costa Mesa, Calif. 92626</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-280</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Price</strong>: $997</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong>: 76H x 26W x 3 1/4D</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong>: 110 lbs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong>: Four low-mass, polymer dia-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>phragms activated by drivers contain-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ing acoustic hammers</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drivers</strong>: Seven (two with ferrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oil)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Response</strong>: 30 Hz to 20 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Crossover</strong>: 1 kHz; 4 kHz; 10 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Impedance</strong>: 8 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Min. power</strong>: 30 watts (14.75 DB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max. power</strong>: 500 watts (27 DB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Controls</strong>: Mid- and high-frequency</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Features</strong>: Total radiating surface of 3,400 sq. in.; four modules framed in aluminum and wood housing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**D-190W**
- **Price**: $649
- **Dimensions**: 40 1/4H x 26W x 3 1/4D
- **Weight**: 60 lbs.
- **Type**: Two low-mass, polymer dia- phragms activated by drivers containing acoustic hammers
- **Drivers**: Five (two with ferrous oil)
- **Response**: 35 Hz to 20 kHz
- **Crossover**: 1 kHz; 4 kHz; 10 kHz

**80a**
- **Price**: $95
- **Dimensions**: 19 3/4H x 12W x 8 3/4D

1980 Edition
Weight
Dimensions
Price

System 3 (Junior)

4 ohms
26 7/32H x 20 7/32 W x 5 D
$249

SM-250

35 lbs.
32H x 15 W x 50 D
$169

SM-260

Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

BEVERIDGE ELECTROSTATIC SPEAKER SYSTEMS
Harold Beveridge, Inc.
505 E. Montecito St.
Santa Barbara, Calif. 93103

System 2SW-2

100 Hz to 18 kHz, 4 3 dB
8 ohms
78 lbs.
Electrostatic and dynamic subwoofer
Electrostatic above 100 Hz; dynamic below 100 Hz

System 3 (Junior)

Max. power
250 watts (24 dBW)

Min. power
30 watts (14.75 dBW)

B.I.C./Avnet
South Service Road
Westbury, N.Y. 11590

B.I.C.

B22

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Controls
Features

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Controls
Features

Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

BLO

Model Ten

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power

Models also available

TPR-400, $269.95; B44, $170.98; B11, $65

BML
BML Electronics, Inc.
5305 N. Ravenswood Ave.
Chicago, Ill. 60640

Sound Odyssey/Tracer 2001

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

Sound Window/Tracer 1001

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power
Features

Models also available

Model Eleven, $199

BOSE
Bose Corp.
100 The Mountain Road
Framingham, Mass. 01701

901 Series IV

Price
Dimensions
Weight
Type
Drivers
Response
Crossover
Impedance
Min. power
Max. power

Models also available

No limitation for non-commercial applications
<table>
<thead>
<tr>
<th>Models also available</th>
<th>601, $299.50</th>
</tr>
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</table>

## BOZAK

**BOZAK, Inc.**

587 Connecticut Ave.
Norwalk, Conn. 06854

### CS-310B Concert Grand

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>52H x 36W x 19D</td>
</tr>
<tr>
<td>Weight</td>
<td>225 lbs.</td>
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<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>Four 12&quot; woofers; two 6½&quot; midrange; eight 2&quot; tweeters</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.8 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>60 watts (17.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Factory-equipped for conventional or biamp operation</td>
</tr>
</tbody>
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### CS-4005A Symphony No. 2

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,350</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>27½H x 36W x 20D</td>
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<tr>
<td>Weight</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 12&quot; woofers; 6½&quot; midrange; eight 2&quot; tweeters</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.8 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Factory-equipped for conventional or biamp operation</td>
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</table>

### CS-501A Concerto 7

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>32½H x 19¼W x 16D</td>
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<tr>
<td>Weight</td>
<td>95 lbs.</td>
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<td>Type</td>
<td>Infinite baffle</td>
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<tr>
<td>Drivers</td>
<td>Twelve variable-density woofers; 6½&quot; aluminum-cone midrange; three 2&quot; aluminum-cone tweeters</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.8 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>75 watts (18.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter</td>
</tr>
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### LS-400

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<tr>
<td>Dimensions</td>
<td>25H x 18W x 13D</td>
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<tr>
<td>Weight</td>
<td>65 lbs.</td>
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<td>Type</td>
<td>Infinite baffle</td>
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<tr>
<td>Drivers</td>
<td>Twelve treated variable-density woofers; 6&quot; aluminum-cone midrange; 1½&quot; soft-dome tweeter</td>
</tr>
<tr>
<td>Crossover</td>
<td>0.5 kHz</td>
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<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
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<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
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<tr>
<td>Controls</td>
<td>3-position contour switch</td>
</tr>
<tr>
<td>Features</td>
<td>Crossover incorporates 6 dB/octave slope; driver impedance compensation</td>
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### LS-70A

<table>
<thead>
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<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>12H x 7½W x 7D</td>
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<tr>
<td>Weight</td>
<td>25 lbs.</td>
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<tr>
<td>Type</td>
<td>Acoustic suspension</td>
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<tr>
<td>Drivers</td>
<td>Six 6½&quot; aluminum-cone woofers; 1½&quot; fabric soft-dome tweeter</td>
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<tr>
<td>Crossover</td>
<td>1.5 kHz</td>
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<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
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<tr>
<td>Controls</td>
<td>3-position switch</td>
</tr>
<tr>
<td>Features</td>
<td>Crossover incorporates 6 dB/octave slope; driver impedance compensation</td>
</tr>
</tbody>
</table>
### Impedance
- 8 ohms (nominal)

### Min. power
- 15 watts (11.75 dBW)

### Max. power
- 100 watts (20 dBW)

### Controls
- None

### Features
- Drivers in same acoustic plane; crossover incorporates 6 dB/octave slope; drive impedance compensation

### Models also available
- CS-400A Symphony No. 1, Modern cabinet; $750 Classic cabinet; $860 Moonish cabinet; $890; LS-300, $260; LS-200, $117; LS-250A, $195

### BRAUN

#### Adcom Co.

11A Jules Lane
New Brunswick, N.J. 08901

#### L-1030

<table>
<thead>
<tr>
<th>Price</th>
<th>$959/pr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>12½H x 27½W x 10¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>42 lbs. ea.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; high-compliance, long-throw woofer; 2&quot; mid hemispherical dome; ¾&quot; hemispherical wide dispersion dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 25 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>500 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100/140 watts (20/21.5 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Genuine walnut veneer with black aluminum grille curved corners on cabinet; highly sophisticated, computer-designed crossover; winner of 1978 CES Design and Engineering Award</td>
</tr>
</tbody>
</table>

#### L-300

<table>
<thead>
<tr>
<th>Price</th>
<th>$429/pr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>10½ x 6½W x 6¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs. total</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension midispeaker</td>
</tr>
<tr>
<td>Drivers</td>
<td>5¼&quot; high-compliance long-throw woofer; 2¼&quot; hemispherical dome midrange; ¾&quot; hemispherical wide dispersion dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to kHz; 86 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>600 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>40/50 watts (16/17 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Computer-designed crossover</td>
</tr>
</tbody>
</table>

### Output C

<table>
<thead>
<tr>
<th>Price</th>
<th>$249/pr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>6¼H x 4¼W x 4¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>14 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension minispeaker</td>
</tr>
<tr>
<td>Drivers</td>
<td>4&quot; long-throw high-compliance woofer; 1¼&quot; hemispherical wide-dispersion dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 25 kHz; 90 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.5 kHz</td>
</tr>
</tbody>
</table>

A Note on Prices

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as feasible by press time.

---

B & W

Anglo-American Audio

Box 653

Buffalo, N.Y. 14240

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,275</th>
</tr>
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<tbody>
<tr>
<td>Dimensions</td>
<td>37H x 17W x 22D</td>
</tr>
<tr>
<td>Weight</td>
<td>97 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>1 woofer; 1 midrange; 1 tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 20 kHz; ±2 dB re 85 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Min. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>None</td>
</tr>
<tr>
<td>Controls</td>
<td>Mid for 1 to 3 kHz; high for over 3 kHz</td>
</tr>
<tr>
<td>Features</td>
<td>Electron overload protection circuit</td>
</tr>
</tbody>
</table>

### DM-6

<table>
<thead>
<tr>
<th>Price</th>
<th>$695</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>36½H x 16½W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>79 lbs. 8 oz</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Woofer; midrange; dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>500 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>350 watts (25.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Bass; midrange; tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Midrange and tweeter controls; linear-phase design</td>
</tr>
</tbody>
</table>

### DM2/II

<table>
<thead>
<tr>
<th>Price</th>
<th>$425</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>28H x 10½W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs. 8 oz</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Woofer (vented port); midrange (transmission line)</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 18 kHz, ±3 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>400 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Fuse protection</td>
</tr>
</tbody>
</table>

### DM-5

<table>
<thead>
<tr>
<th>Price</th>
<th>$169</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>18½H x 9W x 9D</td>
</tr>
<tr>
<td>Weight</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Woofer/midrange; tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>100 Hz to 20 kHz, ±5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Fuse protection</td>
</tr>
</tbody>
</table>

### Models also available
- DM-7, $595; DM-4, $275

### CANTON

Adcom Co.

11A Jules Lane

New Brunswick, N.J. 08901

#### GLE-50

<table>
<thead>
<tr>
<th>Price</th>
<th>$390/pr.</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>8 4/5H x 12 x 2/5W x 7 1/5D</td>
</tr>
<tr>
<td>Weight</td>
<td>17 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; long-throw woofer on die cast light metal basket; 1 1/5&quot; soft-dome midrange on die-cast alloy plate; 8/10&quot; wide dispersion tweeter on cast alloy plate</td>
</tr>
<tr>
<td>Response</td>
<td>36 Hz to 30 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 22 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4/8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50/80 watts (17/19 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Finished in genuine walnut veneer</td>
</tr>
</tbody>
</table>

#### GLE-40

<table>
<thead>
<tr>
<th>Price</th>
<th>$250/pr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>7 1/5H x 10 3/5W x 6D</td>
</tr>
<tr>
<td>Weight</td>
<td>9 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>6 3/10&quot; long-throw woofer in light metal die-cast basket; 1¾&quot; dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>42 Hz to 30 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4/8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>45/60 watts (16.5/17.75 dBW)</td>
</tr>
</tbody>
</table>

### C.C.L.

C.C.L. Enterprises, Inc.

30682 San Antonio St.

Haywood, Calif. 94544

#### 3800

<table>
<thead>
<tr>
<th>Price</th>
<th>$499.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>42¾H x 23½W x 12¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>60 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; woofers, 8&quot; mid bass; 2½&quot; soft-dome midrange, 1&quot; textile dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>22 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>125 Hz, 700 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>30 watts (14.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>300 watts (24.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Roll-away casters</td>
</tr>
</tbody>
</table>

#### 3200

<table>
<thead>
<tr>
<th>Price</th>
<th>$294.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>38¼H x 16W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Air Suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer; 2½&quot; textile dome midrange; 1½&quot; textile dome</td>
</tr>
</tbody>
</table>

---

High Fidelity's Buying Guide to Stereo Components
### Celestion Industries, Inc.
Kuniholm Drive, Box 521
Holliston, Mass. 01746

#### Ditton 2000 Subwoofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$289.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>22 1/4 x 25 1/4 W x 15 1/4 D</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite battle</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; woofers</td>
</tr>
<tr>
<td>Response</td>
<td>22 Hz to 150 kHz, 90 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>300 watts (24.75 dBW)</td>
</tr>
</tbody>
</table>

#### Models also available
<table>
<thead>
<tr>
<th>Price</th>
<th>$349.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$2600, $124.50</td>
</tr>
</tbody>
</table>

### Celestion

#### Ditton 662

<table>
<thead>
<tr>
<th>Price</th>
<th>$749.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>41 1/4 x 15 1/4 W x 11 13/16 D</td>
</tr>
<tr>
<td>Weight</td>
<td>74 lbs, 13 oz</td>
</tr>
<tr>
<td>Type</td>
<td>Air suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>5&quot; woofer; 1&quot; textile dome</td>
</tr>
<tr>
<td>Response</td>
<td>65 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
</tbody>
</table>

#### Features
- Removable grille

#### Ditton 551

<table>
<thead>
<tr>
<th>Price</th>
<th>$499.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>28 1/4 x 15 1/4 W x 13 0</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer; 2&quot; dome midrange; 1&quot; dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>38 Hz to 20 kHz, ±3 dB re 90 dB SPL at 1 meter at 2.9 watts</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>160 watts (22 dBW)</td>
</tr>
</tbody>
</table>

#### Models also available
- CL-70, $209.95; Century 370, $199.95

### CENTREX

#### Pioneer Electronics of America
1925 East Dominguez St.
Long Beach, Calif. 90810

#### CL-100

<table>
<thead>
<tr>
<th>Price</th>
<th>$279.95</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>25 X 15 1/2 W x 12 4/5 D</td>
</tr>
<tr>
<td>Weight</td>
<td>72 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; rolled edge, high compliance woofer; 5&quot; midrange, 2 1/4&quot; cone tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>70 watts (18.5 dBW)</td>
</tr>
</tbody>
</table>

#### Features
- Removable grille

#### MCL-3

<table>
<thead>
<tr>
<th>Price</th>
<th>$249.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>15 X 8 x 7/10 W x 8 1/16 D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; free edge woofer, 2 1/4&quot; cone tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>60 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
</tbody>
</table>

#### Features
- Rosewood finish

### Cerwin-Vega

#### Cerwin-Vega
12250 Montague St.
Arleta, Calif. 91331

### 2200 Satellite

<table>
<thead>
<tr>
<th>Price</th>
<th>$104.50</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>13 X 8 W x 6 D</td>
</tr>
<tr>
<td>Weight</td>
<td>10 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>4 1/4&quot; cone midrange; rear horn</td>
</tr>
<tr>
<td>Response</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5 watts (7 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>300 watts (24.75 dBW)</td>
</tr>
</tbody>
</table>

#### Models also available
- CL-70; Century 370, $199.95

### Century

#### General Audio Corp.
3504 Hillcroft
Houston, Texas 77008

#### Century 670

<table>
<thead>
<tr>
<th>Price</th>
<th>$299.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>25 1/2 X 20 W x 17 1/2 D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Ducted tuned port, bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>15&quot; bass driver, 4 1/4&quot; frame cone driver; two 3 1/4&quot; phenolic ring tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
</tr>
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</table>

#### S-1

<table>
<thead>
<tr>
<th>Price</th>
<th>$435</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>25 X 14 1/2 W x 14 D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer; 6&quot; cone midrange; super-Dhorn tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>28 Hz to 20 kHz, ±4 dB re 98 dB at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>300 Hz, 4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>3 watts (4.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>210 watts (23 dBW) continuous</td>
</tr>
</tbody>
</table>

#### Features
- Thermo Vapor suspension

#### 12TR

<table>
<thead>
<tr>
<th>Price</th>
<th>$470</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>13 X 13 W x 40 D</td>
</tr>
<tr>
<td>Weight</td>
<td>75 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer; 6&quot; cone midrange; rear reflecting horn-tweeter; super-Dhorn tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>28 Hz to 20 kHz, ±4 dB re 102 dB at 1 meter at 1 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>250 Hz, 4 kHz</td>
</tr>
</tbody>
</table>

#### Models also available
- CL-70; Century 370, $199.95
## Impedance
- 8 ohms
- 5 watts (7 dBW)

## Min. power
- 100 watts (20 dBW) continuous

## Controls
- Midrange; tweeter, rear horn

## Features
- Tower-style speaker with rear reflecting horn

### A-10
- **Price:** N/A
- **Dimensions:** 24H x 13W x 11½D
- **Weight:** 39 lbs
- **Type:** Vented
- **Drivers:** 10" woofer, 1½" voice coil Dhorn
- **Response:** 38 Hz to 20 kHz, ±4 dB re 92 dB SPL at 1 meter at 1 watt
- **Crossover:** 2 kHz
- **Impedance:** 8 ohms
- **Min. power:** 5 watts (7 dBW)
- **Max. power:** 40 watts (16 dBW)
- **Controls:** Tweeter level
- **Features:** Walnut veneer finish on all sides

### Models also available
- 15 SW, $380; 313, $330; A-123, N/A

---

## CHARTWELL

Reference Monitor
International, Inc.
2380 C Camino Vida Roble
Carlsbad, Calif. 92008

### PM-450 (passive)
- **Price:** $2,400/pr.
- **Dimensions:** 30H x 18W x 16¼D
- **Type:** Bass reflex
- **Drivers:** 12" polypropylene woofer; 1½" soft-dome tweeter
- **Response:** 40 Hz to 20 kHz, ±3 dB
- **Crossover:** 2 kHz
- **Impedance:** 8 ohms
- **Min. power:** 30 watts (14.75 dBW)
- **Max. power:** 350 watts (25.5 dBW)
- **Features:** Utilizes new low-coloration polypropylene cones

### PM-410
- **Price:** $1,500/pr.
- **Dimensions:** 35½H x 13W x 15D
- **Type:** Bass reflex
- **Drivers:** 12" polypropylene woofer; 5½" polypropylene midrange; 1½" fabric-dome tweeter
- **Response:** 45 Hz to 22 kHz, ±3 dB
- **Crossover:** 300 Hz to 2.4 kHz
- **Impedance:** 8 ohms
- **Min. power:** 10 watts (10 dBW)
- **Max. power:** 200 watts (23 dBW)
- **Features:** Utilizes new low-coloration polypropylene cones

### PM-110
- **Price:** $499/pr.
- **Dimensions:** 18H x 9½W x 8D
- **Type:** Bass reflex
- **Drivers:** 6½" bass/midrange, polypropylene bass/midrange; 1½" tweeter
- **Response:** 65 Hz to 20 kHz, ±3 dB
- **Crossover:** 2.5 kHz
- **Impedance:** 8 ohms
- **Min. power:** 10 watts (10 dBW)
- **Max. power:** 80 watts (16 dBW)
- **Features:** Utilizes new low-coloration polypropylene cones

### Models also available
- PM-210, $850/pr.; LS3/5A, $540 pr.

---

## CIZEK

Cizek Audio Systems, Inc.
15 Stevens St.
Andover, Mass. 01810

### KA-1 Classic
- **Price:** $295
- **Dimensions:** 29H x 17¾W x 12¾D
- **Weight:** 80 lbs
- **Type:** Acoustic suspension
- **Drivers:** Two 10" acoustic suspension, bass drivers
- **Response:** 35 Hz to 17 kHz, ±1.5, 2 dB re 88 dB SPL at 1 meter
- **Crossover:** 1.5 kHz
- **Impedance:** 4 ohms
- **Min. power:** 15 watts (11.75 dBW)
- **Max. power:** 600 watts (37.75 dBW)
- **Features:** Direct connection to Cizek Models 1, 2, or 3, or provision for biamping

### MG-27
- **Price:** $295
- **Dimensions:** 29H x 17½W x 12½D
- **Weight:** 80 lbs
- **Type:** Acoustic suspension
- **Drivers:** Two 10" acoustic suspension, bass drivers
- **Response:** 35 Hz to 200 Hz, ±3 dB re 86 dB SPL at 1 meter
- **Crossover:** 200 Hz
- **Impedance:** 4 ohms
- **Min. power:** 25 watts (14 dBW)
- **Max. power:** 600 watts (37.75 dBW)
- **Features:** Solid Hawaiian koa wood; rounded dovetail corners; AcuteStok® battle

---

## CONCEPT

Concept
1601 W. Glenlake Ave.
Chicago, Ill. 60143

### CEM
- **Price:** $595
- **Dimensions:** 45H x 18W x 15½D
- **Weight:** 102 lbs
- **Type:** Passive radiator
- **Drivers:** Heil air-motion transformer, midrange/tweeter
- **Response:** 25 Hz to 23 kHz, ±3 dB
- **Crossover:** 13 kHz at 18 dB
- **Impedance:** 6 ohms
- **Min. power:** 25 watts (14 dBW)
- **Controls:** Midrange, tweeter
- **Features:** Room-resonance compensation control

### Models also available
- CE-1, $445

---

## CRITERION

Lafayette Radio Electronics
111 Jericho Turnpike
Syosset, N.Y. 11791

### Criterion
- **Price:** $189.99
- **Dimensions:** 29¾H x 17¼W x 11½D
- **Weight:** 48 lbs
- **Type:** Dynamic
- **Drivers:** 10" cast woofer, Heil air-motion transformer
- **Response:** 35 Hz to 23 kHz, ±3 dB
- **Crossover:** 15 kHz at 18 dB
- **Impedance:** 6 ohms
- **Min. power:** 20 watts (13 dBW)
- **Controls:** Midrange, tweeter
- **Features:** LED power indicator

### Models also available
- CE-1, $445

---

## Criterion
- **Price:** $119.99
- **Dimensions:** 29¾H x 17¼W x 11½D
- **Weight:** 48 lbs
- **Type:** Vented bass reflex
- **Drivers:** 15" woofer, horn midrange; two 5½" phenolic-ring tweeters
- **Response:** 20 Hz to 20 kHz, ±10 dB
- **Crossover:** 2 kHz, 4 kHz
- **Impedance:** 8 ohms
- **Min. power:** 15 watts (11.75 dBW)
- **Max. power:** 120 watts (20.75 dBW) peak
- **Controls:** Midrange, treble
- **Features:** Circuit breaker

### Criterion
- **Price:** $119.99
- **Dimensions:** 29¾H x 17¼W x 11½D
- **Weight:** 48 lbs
- **Type:** Vented bass reflex
- **Drivers:** 15" woofer, horn midrange; two 5½" phenolic-ring tweeters
- **Response:** 20 Hz to 20 kHz, ±10 dB
- **Crossover:** 2 kHz, 4 kHz
- **Impedance:** 8 ohms
- **Min. power:** 15 watts (11.75 dBW)
- **Max. power:** 120 watts (20.75 dBW) peak
- **Controls:** Midrange, treble
- **Features:** Circuit breaker

### Models also available
- DS-1, $159.98/pr.
- Dimensions: 11¾H x 7¾W x 6¾D

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<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
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<th>Price</th>
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<th>Weight</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>XG-10</td>
<td>$2,997/pr.</td>
<td>41% x 39 W x 19%</td>
<td>325 lbs.</td>
<td>10 electrostatic cells; 1 piezoelectric tweeter</td>
<td>40 Hz to 35 kHz,±4 dB re 82 dB SPL at 1 meter at 1 watt</td>
<td>1 kHz</td>
<td>2.5 to 200 ohms</td>
<td>75 watts (18.75 dBW)</td>
<td>100 to 600 watts (20 to 27.57 dBW) (continuous; varies with frequency)</td>
<td>Tweeter level, bias, cell upper cut-off</td>
<td>Three modes of use: normal, plus two external tweeter crossover points (3 kHz or 10 kHz)</td>
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<tr>
<td>ESL-203</td>
<td>$875</td>
<td>30% x 10% x 9D</td>
<td>60 lbs.</td>
<td>Dynamic/electrostatic</td>
<td>20 watts (13 dBW)</td>
<td>200 watts (23 dBW)</td>
<td>20 Hz to 35 kHz,±2 dB re 89 dB SPL at 1 meter at 1 watt</td>
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<tr>
<td>ESL-110</td>
<td>$250</td>
<td>21% x 8 W x 7%</td>
<td>20 lbs.</td>
<td>Electrostatic/dynamic acoustic suspension hybrid</td>
<td>Four electrostatic tweeters in vertical line source; 5&quot; Bextrene woofer</td>
<td>40 Hz to 35 kHz,±2 dB re 89 dB SPL at 1 meter at 1 watt</td>
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<tr>
<td>ST</td>
<td>$140</td>
<td>10% x 15 W x 4D</td>
<td>20 lbs.</td>
<td>Electrostatic/dynamic acoustic suspension hybrid</td>
<td>8 ohms</td>
<td>1 kHz</td>
<td>3 kHz to 20 kHz</td>
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<tr>
<td>ESL-100</td>
<td>$435</td>
<td>31% x 30% x 9D</td>
<td>50 lbs.</td>
<td>Electrostatic</td>
<td>200 watts (23 dBW) with protective fuses</td>
<td>3 kHz; 4 kHz</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>20 lbs.</td>
<td>24% x 22% x 22%</td>
<td>Open-air baffle; dipole</td>
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<tr>
<td>ESL-201</td>
<td>$750</td>
<td>30% x 10% x 9D</td>
<td>60 lbs.</td>
<td>Dynamic/electrostatic</td>
<td>200 watts (23 dBW)</td>
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</tbody>
</table>
| ST | $140 | 10\% x 15 W x 4D | 20 lbs. | Electrostatic/dynamic acoustic suspension hybrid | 8 ohms | 1 kHz | 3 kHz to 20 kHz | Raleigh, N.C. 27606

**DAHLQUIST**
Dahlquist, Inc.
27 Hanse Ave.
Freeport, N.Y. 11520

**DECCA**
Rocelco, Inc.
1669 Flint Road
Downsview, Ont. M3J 2J7

**London Ribbon Tweeter**
Price $199.50
Type Horn-coupled tweeter
Drivers Ribbon tweeter only (add-on to existing systems)
Response 1 kHz to 25 kHz
Crossover 1 kHz
Impedance 8 ohms
Max. power 30 watts (14.75 dBW)
Controls None
Features Driven element is ultra-light ribbon for fast transient response

**Supertweeter**
Price $199.50
Type Ribbon tweeter in enclosure without horn
Drivers Ribbon tweeter only (add-on to existing systems)
Response 7 kHz to 30 kHz
Crossover 7 kHz
Impedance 8 ohms
Max. power 30 watts (14.75 dBW)
Controls None
Features Driven element is ultra-light ribbon for fast transient response

**ST**
Price $140
Dimensions 10\% x 15 W x 4D
Weight 20 lbs.
Type Tweeter array
Drivers 8 electrostatic tweeters
Response 3.5 kHz to 35 kHz,≤1/2 dB
Crossover 3.5 kHz,4.5 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power Unlimited
Controls Selection roll-in of 3.5 or 4.5 kHz
Features Open-air baffle, dipole

**Models also available**
ESL-201, $350, 180, $220

**DESIGN ACOUSTICS**
Design Acoustics, Inc.
2426 Amsler St.
Torrance, Calif. 90505

**D-12A**
Price $750 (walnut)
Dimensions 26\% x 22\% x 22\% (spherical)
Weight 70 lbs.
Type Vented; acoustic suspension
Drivers Two 8" woofers; 1½" dome midrange; two 5" cone midrange; two 1" dome tweeters, three ½" cone tweeters

Response 30 Hz to 18 kHz, ±2 dB
Crossover 650 Hz; 2 kHz
Impedance 4 ohms
Min. power 20 watts (14 dBW)
Max. power 200 watts (23 dBW)

Controls Woofers, midrange, tweeter; dispersion control for 180 degrees or 360 degrees

Features Omnidirectional speaker with choice of 180- or 360-degree radiation

D-8

Price $590
Dimensions 44H x 16½W x 12⅓D
Weight 70 lbs.

Type Acoustic suspension/passive radiator (depending on low-frequency attenuation control setting)

Drivers Two 10" long-throw woofers; 5" midrange driver; 5 high-frequency drivers (1 dome, 3 cones, 1 piecelectric tweeter); passive radiator丹田electrially as well as acoustically

Response 30 Hz to 17 kHz, ±2 dB
Crossover 600 Hz, 1.5 kHz
Impedance 4 ohms
Min. power 25 watts (11.75 dBW)
Max. power 150 watts (21.75 dBW)

Controls Woofers, midrange, tweeter

Features Wide dispersion; novel woofer level control; goes from acoustic suspension to passive radiator

D-4 A

Price $345
Dimensions 38H x 16⅔W x 11D
Weight 55 lbs.

Type Acoustic suspension; vented

Drivers Two 8" long-throw woofers; 5½" midrange driver; two 1½" cone tweeters; 1 dome tweeter

Response 40 Hz to 18 kHz, ±3 dB
Crossover 700 Hz, 2 kHz
Impedance 4 ohms
Min. power 20 watts (13 dBW)
Max. power 125 watts (21 dBW)

Controls Woofer, tweeter

Features Drivers arranged on trapezoid for wide dispersion; conventional appearance

D-2

Price $220
Dimensions 34H x 12⅓W x 12⅔D
Weight 35 lbs.

Type Vented; acoustic suspension

Drivers 10" long-throw woofer; 1½" dome tweeter

Response 40 Hz to 18 kHz, ±3.5 dB
Crossover 1.5 kHz
Impedance 8 ohms
Min. power 20 watts (13 dBW)
Max. power 100 watts (20 dBW)

Controls Tweeter

Features Tilted tweeter to avoid "beaming" at high frequencies

D-1W

Price $135
Dimensions 21H x 12W x 8D
Weight 19 lbs.

Type Vented, acoustic suspension

Drivers 8" long-throw woofer; 1½" cone tweeter

Response 50 Hz to 15 kHz, ±3.5 dB
Crossover 1.5 kHz
Impedance 6 ohms
Min. power 15 watts (11.75 dBW)
Max. power 30 watts (14.75 dBW)

Features Double reflection by "plug" and flared dish produces wide dispersion of high frequencies

Models also available
D-6, $390 (base included); D-3, $240; D-1A, $125

D-5

Price $325
Dimensions 37½H x 14½W x 12¼D
Weight 60 lbs.

Drivers 10" woofer; 8" woofer; 5½" midrange; two 2½" tweeters

Response 40 Hz to 18 kHz, ±5 dB re 98 dB

DFS

DFS, Inc.

10255 S. W. Parkway
Portland, Ore. 97204

J-3

Price $215
Dimensions 27¼H x 14½W x 12¼D

Weight 45 lbs.

Drivers Two 8" woofers; three 2½" tweeters

Response 45 Hz to 18 kHz, ±5 dB re 98 dB
Max. power 100 watts (20 dBW)

Features One rear-firing, one forward-firing tweeter

J-1

Price $125
Dimensions 20¼H x 12¼W x 10¼D

Weight 35 lbs.

Drivers 8" woofer; 2½" tweeter

Response 55 Hz to 18 kHz, ±5 dB re 96 dB
Max. power 15 watts (11.75 dBW)

Features Constructed of high density particle board and walnut veneer

Models also available
T-4, $280; J-2, $145

DICK WAGNER

Dick Wagner
5930 Penfield Ave.
Woodland Hills, Calif. 91367

D-4

Price $350
Dimensions 39H x 13W x 13D

Weight 65 lbs.

Type Passive radiator

Drivers Two 10" woofers; 5½" midrange, 2 dome midrange, 1½" dome tweeter; super tweeter

Response 32 Hz to 20 kHz, ±3 dB re 96 dB
Crossover 1.5 kHz, 7 kHz
Impedance 8 ohms
Min. power 15 watts (11.75 dBW)
Max. power 190 watts (22.75 dBW)

Controls Tilted

Features Rear-mounted passive radiator; ferrofluid-damped

ETR-280

Price $129
Dimensions 20H x 11½W x 9¼D

Weight 21 lbs.

Type Vented

Drivers 8" long-excursion woofer; 3" high-dispersion tweeter

Response 55 Hz to 20 kHz, ±4 dB re 92 dB
Crossover 4.5 kHz
Impedance 8 ohms
Min. power 90 watts (10 dBW)
Max. power 90 watts (19.5 dBW)

Features Self-resetting circuit breaker

Power Panel Series

Power Panel Ten

Price $650
Dimensions 38H x 22W x 9D

Weight 85 lbs.

Type Passive radiator

Drivers Two 10" woofers; 5½" midrange, 2 dome midrange, 1½" dome tweeter; super tweeter

Response 32 Hz to 20 kHz, ±3 dB re 96 dB
Crossover 1.5 kHz, 7 kHz
Impedance 8 ohms (nominal)
Min. power 25 watts (14 dBW)
Max. power 200 watts (23 dBW)

Controls Separate controls for three upper frequency drives

Features All ferrofluid components; 1½" passive radiator (rear mounted); LED power input indicators

Models also available
ETR-410, $249; ETR-310, $169; Power Panel Eight, $550

DYNACO

Dynaco, Inc.

P.O. Box 612
Needham, Mass. 02195

A-450

Price $350
Dimensions 39H x 13W x 13D

High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sentry III, Series II</td>
<td>Price $500 (optional SEQ equalizer, $95.50)</td>
<td>28H x 12W x 12D</td>
<td>156 lbs.</td>
<td>$1,750.pr. (includes equalizer)</td>
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<tr>
<td>A-250</td>
<td>Price $150</td>
<td>12H x 12W x 22D</td>
<td>36 lbs.</td>
<td>$1,750/pr. (includes equalizer)</td>
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<td>Electro-Voice</td>
<td>Price $999</td>
<td>36H x 12W x 14D</td>
<td>50 lbs.</td>
<td>$275</td>
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<tr>
<td>Twenty + Speaker</td>
<td>Price $159</td>
<td>29H x 18W x 12D</td>
<td>64 lbs.</td>
<td>$275</td>
</tr>
<tr>
<td>Fourteen</td>
<td>Price $159</td>
<td>244 x 13W x 90</td>
<td>40 lbs.</td>
<td>$275</td>
</tr>
<tr>
<td>Epicure</td>
<td>Price $1,000</td>
<td>75H x 18W x 18D</td>
<td>180 lbs.</td>
<td>$1,000</td>
</tr>
<tr>
<td>1000 (The Tower) Speaker</td>
<td>Price $1,000</td>
<td>29H x 16W x 1015D</td>
<td>42 lbs.</td>
<td>$135</td>
</tr>
<tr>
<td>Ten: W</td>
<td>Price $135</td>
<td>22H x 12W x 915D</td>
<td>33 lbs.</td>
<td>$135</td>
</tr>
</tbody>
</table>
### EPI Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-200C</td>
<td>$275</td>
<td>32(\frac{1}{4}) x 17(\frac{1}{2}) x 11D</td>
<td>60 lbs</td>
<td>&quot;Passive Piston&quot; bass radiator</td>
<td>8&quot; woofer; 1&quot; tweeter; 12&quot; passive radiator</td>
<td>36 Hz to 20 kHz, ±3 dB</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>25 watts (24 dBW)</td>
<td>Controls</td>
<td>Oiled walnut veneer</td>
</tr>
</tbody>
</table>

### Features
- Three-position tweeter attenuator switch on front panel
- Walnut veneer cabinet

### Tempest Bookshelf-1

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$310</td>
<td>36(\frac{1}{4}) x 14(\frac{3}{4}) x 14D</td>
<td>55 lbs</td>
<td>Passive radiator</td>
<td>10&quot; cone woofer; Heil air-motion transformer</td>
<td>38 Hz to 24 kHz, ±3 dB re 90 dB</td>
<td>5 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>140 watts (21.5 dBW)</td>
<td>Controls</td>
<td>Oiled walnut veneer</td>
</tr>
</tbody>
</table>

### Tempest Bookshelf-2

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$246</td>
<td>33(\frac{1}{4}) x 12(\frac{3}{4}) x 14(\frac{1}{2})D</td>
<td>53 lbs</td>
<td>Passive radiator</td>
<td>10&quot; cone woofer; Heil air-motion transformer</td>
<td>42 Hz to 23 kHz, ±3 dB re 93 dB</td>
<td>6 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>140 watts (21.5 dBW)</td>
<td>Controls</td>
<td>Oiled walnut veneer</td>
</tr>
</tbody>
</table>

### Performance PS-4A

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$370</td>
<td>36(\frac{1}{2}) x 12(\frac{1}{4}) x 12(\frac{1}{10})D</td>
<td>48 lbs</td>
<td>Passive radiator</td>
<td>10&quot; cone woofer; Heil air-motion transformer</td>
<td>35 Hz to 42 kHz, ±3 dB re 93 dB</td>
<td>6 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>160 watts (22 dBW)</td>
<td>Controls</td>
<td>Classic, Passive</td>
</tr>
</tbody>
</table>

### Performance PS-9A

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$175</td>
<td>19(\frac{1}{4}) x 11(\frac{1}{4}) x 9(\frac{3}{4})D</td>
<td>23 lbs</td>
<td>Passive radiator</td>
<td>8&quot; cone woofer; Heil air-motion transformer</td>
<td>55 Hz to 20 kHz, ±3 dB re 92 dB</td>
<td>6 ohms</td>
<td>10 watts (10 dBW)</td>
<td>75 watts (18.75 dBW)</td>
<td>Controls</td>
<td>Classic, Passive</td>
</tr>
</tbody>
</table>

### Tempest Classic

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$207</td>
<td>33(\frac{1}{4}) x 15(\frac{1}{2}) x 15(\frac{1}{2})D</td>
<td>255 lbs</td>
<td>Passive radiator</td>
<td>10&quot; cone woofer; Heil air-motion transformer</td>
<td>35 Hz to 42 kHz, ±10 dB re 93 dB</td>
<td>6 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>140 watts (21.5 dBW)</td>
<td>Controls</td>
<td>Classic, Passive</td>
</tr>
</tbody>
</table>

### Fisher

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$499</td>
<td>38(\frac{1}{4}) x 17(\frac{1}{2}) x 13(\frac{1}{2})D</td>
<td>130 lbs</td>
<td>Passive radiator</td>
<td>15&quot; cone woofer; two 5&quot; midrange drivers; 3&quot; tweeter</td>
<td>40 Hz to 20 kHz, ±10 dB re 91 dB</td>
<td>6 ohms</td>
<td>25 watts (14 dBW)</td>
<td>130 watts (21.25 dBW)</td>
<td>Controls</td>
<td>Classic, Passive</td>
</tr>
</tbody>
</table>

### Models also available
### Electro-Voice Interface: D Series II

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST-441</td>
<td>$280</td>
<td>25¼ H x 16 W x 12 ¾ D</td>
<td>36 lbs</td>
<td>Ported bass reflex</td>
<td>12” woofer, 5” midrange, 3” tweeter</td>
<td>45 Hz to 18 kHz, ± 10 dB re 90 dB</td>
<td>1 kHz; 5 kHz</td>
<td>8 ohms</td>
<td>12 watts</td>
<td>15 watts</td>
<td>Treble</td>
<td>Circuit breaker</td>
</tr>
<tr>
<td>MS-125A</td>
<td>$80</td>
<td>21¾ H x 13¾ W x 9 D</td>
<td>15 lbs</td>
<td>Passive radiator</td>
<td>8” woofer, 2” tweeter</td>
<td>70 Hz to 14 kHz, ±10 dB</td>
<td>8 ohms</td>
<td>4 watts</td>
<td>60 watts</td>
<td>30 watts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FMI

#### Fulton Electronics

4204 Brunswick Ave. N.
Minneapolis, Minn. 55422

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST-420</td>
<td>$150</td>
<td>21¾ H x 13¾ W x 9 ¾ D</td>
<td>19 lbs</td>
<td>Passive radiator</td>
<td>8” woofer, 3” tweeter</td>
<td>50 Hz to 16 kHz, ±10 dB re 90 dB</td>
<td>5 kHz</td>
<td>8 ohms</td>
<td>35 watts</td>
<td>35 watts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Frazier's "Thing"

50H x 24 W x 16 D

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>$1,074</td>
<td>55H x 20 W x 18 D</td>
<td>25 lbs</td>
<td>Modified Helmholtz tuned slot</td>
<td>15” woofer, 12” woofer, four 4” midranges; 2 piezoelectric tweeters</td>
<td>45 Hz to 25 kHz, ±5 dB re 107 dB</td>
<td>4 kHz</td>
<td>4 ohms</td>
<td>1 watt</td>
<td>1 watt</td>
<td></td>
<td>Reproduces the lowest organ notes</td>
</tr>
</tbody>
</table>

### Mark V-A

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark</td>
<td>$400</td>
<td>25¼ H x 14 W x 12 D</td>
<td>55 lbs</td>
<td>Modified Helmholtz tuned slot</td>
<td>12” woofer, two 4” midranges; piezoelectric tweeters</td>
<td>35 Hz to 25 kHz, ±5 dB re 96 dB</td>
<td>500 Hz</td>
<td>8 ohms</td>
<td>1 watt</td>
<td>1 watt</td>
<td></td>
<td>Super bookshelf or floor-standing system</td>
</tr>
</tbody>
</table>

### MS-145

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$140</td>
<td>24¼ H x 14⅛ W x 11 D</td>
<td>20 lbs</td>
<td>Passive radiator</td>
<td>10” woofer, 5” midrange, 3” tweeter</td>
<td>20 Hz to 12 kHz</td>
<td>35 Hz</td>
<td>4 ohms</td>
<td>65 watts</td>
<td>45 watts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FRAZIER

Frazier, Inc.
1930 Valley View Lane
Dallas, Texas 75234

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eleven</td>
<td>$1,440</td>
<td>21¼ H x 16 W x 16 D</td>
<td>56 lbs</td>
<td>Modified Helmholtz tuned slot</td>
<td>10” woofer, 3” x 7” compression horn; piezoelectric tweeter</td>
<td>35 Hz to 25 kHz, ±5 dB re 96 dB</td>
<td>500 Hz</td>
<td>8 ohms</td>
<td>1 watt</td>
<td>1 watt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Super Midget

<table>
<thead>
<tr>
<th>Price</th>
<th>$50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>15¼H x 6¼W x 9½D</td>
</tr>
<tr>
<td>Weight</td>
<td>13 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Modified Helmholtz tuned slot</td>
</tr>
<tr>
<td>Drivers</td>
<td>One 4&quot; driver</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 12 kHz, ±5 dB re 89 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>125 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>1 watt (0 dBW) continuous</td>
</tr>
<tr>
<td>Max. power</td>
<td>10 watts (10 dBW) continuous</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>May be used with car tape players</td>
</tr>
</tbody>
</table>

### Super Monte Carlo

<table>
<thead>
<tr>
<th>Price</th>
<th>$132</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>19H x 10½W x 12D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Modified Helmholtz tuned slot</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; woofer, direct-coupled piezoelectric tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 25 kHz, ±5 dB re 93 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>1 watt (0 dBW) continuous</td>
</tr>
<tr>
<td>Max. power</td>
<td>30 watts (15 dBW) continuous</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Two-way system with no crossover</td>
</tr>
</tbody>
</table>

### Models also available

- Seven-A, $515; Mark IV-A, $250; CAD-1, $101

### FRIED

Fried Products Co. 7616 City Line Ave. Philadelphia, Pa. 19151

### Super Monitor

<table>
<thead>
<tr>
<th>Price</th>
<th>$5,000 (assembled); $1,200 (kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>56H x 35W x 12D</td>
</tr>
<tr>
<td>Weight</td>
<td>164 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Dynamic, transmission line</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; high-flux plastic, 6&quot; high-flux midrange; 1&quot; high-flux Melinex tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>8 Hz to 27 kHz, ±2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>125 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>400 watts (27 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>C satellite or woofer (specify SWM) available separately</td>
</tr>
</tbody>
</table>

### H/2

<table>
<thead>
<tr>
<th>Price</th>
<th>$2,100 (assembled); $900 (kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Woofer: 21H x 44W x 24D; Satellite: 11H x 8W x 6D</td>
</tr>
<tr>
<td>Weight</td>
<td>Woofer: 175 lbs.; Satellite: 14 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; high-flux plastic bass driver; 5&quot; high-flux plastic midbass; 1&quot; Melinex dome treble unit</td>
</tr>
<tr>
<td>Response</td>
<td>100 Hz to 50 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>100 Hz, 3.5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Impulse-perspective control</td>
</tr>
<tr>
<td>Features</td>
<td>Tilt-back stand recommended; available as an option</td>
</tr>
</tbody>
</table>

### Model T subwoofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,400 (assembled); $500 (kit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21H x 44W x 24D</td>
</tr>
</tbody>
</table>

### Crossover

- M/2: 2.5 kHz
- Impedance: 8 ohms
- Min. power: 25 watts (14 dBW)
- Max. power: 200 watts (23 dBW)
- Controls: Impulse perspective control
- Features: Tilt-back stand recommended; available as an option

### Models also available

- O Sabwoofer, $600 (assembled); $550 (kit), C, $475 (assembled); $300 (kit), R/I, $400; Model A, $190

### FULTON

Fulton Electronics 4204 Brunswick Ave. N., Minneapolis, Minn. 55422

### Premiere

<table>
<thead>
<tr>
<th>Price</th>
<th>$4,495</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>60H x 25W x 22D</td>
</tr>
<tr>
<td>Weight</td>
<td>300 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Special dynamic</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; subwoofer; 12&quot; midwoofer; 10&quot; upper woofer; 8&quot; midrange; 3 special tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>13 Hz to 80 kHz, ±1 dB re 82 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>25 Hz, 4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>400 watts (26 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Woofer 1; woofer 2; midrange 1; tweeter 1; tweeter 2; superwoofer</td>
</tr>
</tbody>
</table>

### Nuance

<table>
<thead>
<tr>
<th>Price</th>
<th>$495</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>34H x 14W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>80 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer; 5&quot; midrange; 2 special tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>34 Hz to 42 kHz, ±11.5 dB re 85 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>760 Hz; 65 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>35 watts (15.5 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter; midrange; woofer</td>
</tr>
<tr>
<td>Features</td>
<td>Solid walnut veneer; smoked glass-top; can be biamped and biwired</td>
</tr>
</tbody>
</table>

### FUNDAMENTAL RESEARCH

Fundamental Research Success St. Pittsburgh, Penn. 15212

### “The Punch” Woofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$750</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>24H x 60W x 18D</td>
</tr>
<tr>
<td>Weight</td>
<td>225 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>Four 12&quot; woofers</td>
</tr>
<tr>
<td>Response</td>
<td>25 Hz to 150 Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 or 8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>60 watts (17.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>400 watts (26 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Fuse; system designed purely by ear</td>
</tr>
</tbody>
</table>

### The Infrasonix Woofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>38H x 15W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>85 lbs.</td>
</tr>
</tbody>
</table>

---

*High Fidelity's Buying Guide to Stereo Components*
<table>
<thead>
<tr>
<th>Type</th>
<th>Acoustic suspension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drivers</td>
<td>Two 10&quot; woofers</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 200 Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>60 watts (17.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>400 watts (26 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Fuse, system designed purely by ear</td>
</tr>
</tbody>
</table>

The Smaller Infrasonix Woofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$299</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>28H x 13W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 200 Hz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>60 watts (17.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Fuse, system designed purely by ear</td>
</tr>
</tbody>
</table>

Genesis Model 2+

<table>
<thead>
<tr>
<th>Price</th>
<th>$253</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>33H x 14 1/2W x 10 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>44 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Passive radiator</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; woofer with 10&quot; passive radiator; 1&quot; tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>28 Hz to 20 kHz, 4 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 3 dB</td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>500 watts (27 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange, tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Mounting bases included; magnetic ferrofluid tweeter and midrange; walnut or oak finish</td>
</tr>
</tbody>
</table>

Genesis 2+

<table>
<thead>
<tr>
<th>Price</th>
<th>$235</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>37 1/2H x 14 1/2W x 11 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>53 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Passive radiator</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; woofer with 10&quot; passive radiator; 1&quot; tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>32 Hz to 20 kHz, 4 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>18 Hz electrical, 45 Hz acoustic</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Mounting bases included; ferrofluid tweeter, walnut or oak veneer finish</td>
</tr>
</tbody>
</table>

Genesis Model 2

<table>
<thead>
<tr>
<th>Price</th>
<th>$185 (walnut); $207 (oak)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>26 1/2H x 14 1/2W x 11 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>37 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Passive radiator</td>
</tr>
<tr>
<td>Drivers</td>
<td>1&quot; tweeter; 8&quot; woofer</td>
</tr>
<tr>
<td>Response</td>
<td>28 Hz to 20 kHz, 4 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>45 Hz, 1.8 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Magnetic fluid in tweeter</td>
</tr>
</tbody>
</table>

Genesis V-6

<table>
<thead>
<tr>
<th>Price</th>
<th>$105</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>18H x 10 1/2W x 7D</td>
</tr>
<tr>
<td>Weight</td>
<td>19 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>6 1/2&quot; woofer; 1&quot; tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>52 Hz to 20 kHz, 4 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.8 kHz</td>
</tr>
</tbody>
</table>

Models also available

| Genesis Model 1+ | $133 (walnut); $147 (oak) |

GLI

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,900</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>50H x 36W x 29D</td>
</tr>
<tr>
<td>Weight</td>
<td>385 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Horn bass cabinet with separate mid/high array</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 15&quot; woofers with two 15&quot; passive radiators; two 12&quot; x 22&quot; midrange horns; 6&quot; x 18&quot; horn tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 20 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>850 Hz, 7 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>500 watts (27 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Coil Guard speaker-protection circuit, heavy-duty professional construction</td>
</tr>
</tbody>
</table>

GLI Division of VSC Corp.

Long Island City, N.Y. 11101

HE-1

<table>
<thead>
<tr>
<th>Price</th>
<th>$480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>34 1/4H x 13 1/4W x 14D</td>
</tr>
<tr>
<td>Weight</td>
<td>66 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; bass unit; two 5&quot; midrange drivers; 1&quot; ferrofluid soft-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz, 4 dB re 93.5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>5.5 watts (5.5 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>85 watts (19.25 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>High-power voice coils; 9-element ferrite-cored crossovers; high-flux magnet system; fused for protection</td>
</tr>
</tbody>
</table>

Achromat Kappa

<table>
<thead>
<tr>
<th>Price</th>
<th>$335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21 1/4H x 10 1/4W x 10 1/4D</td>
</tr>
<tr>
<td>Weight</td>
<td>30 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; long-throw, pleated surround woofer, 1&quot; soft-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 20 kHz, 4 dB re 85 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>2.4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>95 watts (19.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Twelve-element crossover using ferrite-cored chokes; fused for protection</td>
</tr>
</tbody>
</table>

Models also available

HE-2, $420, Achromat Beta, $250

GRAFYX-SP

Grafyx Audio Products, Inc.
310 Kirk Road
St. Charles, Ill. 60174

SP-Ten

<table>
<thead>
<tr>
<th>Price</th>
<th>$169</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>26 1/2H x 15W x 13 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Tuned port</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; rubber surround woofer; 1&quot; modified hard-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 20 kHz, 4 dB re 87 dB SPL</td>
</tr>
</tbody>
</table>

GOODMANS

Goodmans Loudspeakers, Ltd.
Plessey Consumer Products (Distributor)
100 Commercial St.
New York, N.Y. 11802

Achromat Sigma

<table>
<thead>
<tr>
<th>Price</th>
<th>$480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>27H x 13W x 11D</td>
</tr>
<tr>
<td>Weight</td>
<td>44 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension with auxiliary bass radiator</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; bass unit; 10 1/2&quot; auxiliary bass radiator; 1&quot; high frequency unit</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 23 kHz, 4.5 dB re 86 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>2.4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>95 watts (19.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>&quot;Long throw&quot; bass unit; pleated surround woofer, soft dome tweeter; 12-element crossover using ferrite-cored chokes; fused for protection</td>
</tr>
</tbody>
</table>

HE-1

<table>
<thead>
<tr>
<th>Price</th>
<th>$480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>34 1/4H x 13 1/4W x 14D</td>
</tr>
<tr>
<td>Weight</td>
<td>66 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; bass unit; two 5&quot; midrange drivers; 1&quot; ferrofluid soft-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz, 4 dB re 93.5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>3.5 watts (5.5 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>85 watts (19.25 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>High-power voice coils; 9-element ferrite-cored crossovers; high-flux magnet system; fused for protection</td>
</tr>
</tbody>
</table>

Achromat Kappa

<table>
<thead>
<tr>
<th>Price</th>
<th>$335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
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</tr>
<tr>
<td>Weight</td>
<td>30 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; long-throw, pleated surround woofer, 1&quot; soft-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 20 kHz, 4 dB re 85 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>2.4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>95 watts (19.75 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Twelve-element crossover using ferrite-cored chokes; fused for protection</td>
</tr>
</tbody>
</table>

Models also available

HE-2, $420, Achromat Beta, $250

GRAFYX-SP

Grafyx Audio Products, Inc.
310 Kirk Road
St. Charles, Ill. 60174

SP-Ten

<table>
<thead>
<tr>
<th>Price</th>
<th>$169</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>26 1/2H x 15W x 13 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Tuned port</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; rubber surround woofer; 1&quot; modified hard-dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 20 kHz, 4 dB re 87 dB SPL</td>
</tr>
<tr>
<td>Model</td>
<td>Price</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Concert Jr.</td>
<td>$375</td>
</tr>
<tr>
<td>AS-1348</td>
<td>$300</td>
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<tr>
<td>Zodiac Jr.</td>
<td>$96</td>
</tr>
<tr>
<td>AS-1332</td>
<td>$58</td>
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<tr>
<td>Zodiac '78</td>
<td>$180</td>
</tr>
<tr>
<td>AS-1373</td>
<td>$170</td>
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<tr>
<td>Holton Tower</td>
<td>$495</td>
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<tr>
<td>Zodiac '76</td>
<td>$190</td>
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<tr>
<td>AS-1363</td>
<td>$130</td>
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<tr>
<td>Concert Jr.</td>
<td>$375</td>
</tr>
<tr>
<td>Models also available</td>
<td>SP-Six $109</td>
</tr>
<tr>
<td>GREAT WHITE WHALE</td>
<td></td>
</tr>
<tr>
<td>Great White Whale Dist., Inc.</td>
<td></td>
</tr>
<tr>
<td>348 E. 84th St.</td>
<td></td>
</tr>
<tr>
<td>New York, N.Y. 10028</td>
<td></td>
</tr>
</tbody>
</table>

**Crossover**
- 2 kHz
- 8 ohms

**Min. power**
- 10 watts (10 dBW)

**Max. power**
- 50 watts (20 dBW)

**Features**
- System fusing; 2 satellites with woofer commode

**HARTLEY**
Hartley Products Corp.
620 Island Road
Ramsey, N.J. 07446

**Reference**
- Price $1,725
- Dimensions 50H x 36W x 24D
- Weight 300 lbs
- Type Magnetic suspension
- Drivers 24" woofer, 10" midrange, 7" midrange/tweeter, 1" tweeter
- Impedance 8 ohms
- Crossover 16 kHz to 25 kHz
- Response 250 Hz; 3 kHz; 7 kHz
- Impedance 5 to ohms
- Min. power 25 watts (14 dBW)
- Max. power 300 watts (24.75 dBW)
- Controls None

**Features**
- Tweeter gap filled with ferrofluid

**AS-1344**
- Price $150 (kit)
- Dimensions 301/2B, $275; Zodiac 1B, $135 (kit)

**HEATHKIT**
Heath Co.
Benton Harbor, Mich. 49022

**AS-1348**
- Price $300 (kit)
- Dimensions 381/4H x 24W x 15D
- Weight 100 lbs
- Type Acoustic suspension
- Drivers 15" rear-facing woofer; two 4½" front-facing midranges; three 1" dome tweeters angle right, left, and ahead
- Impedance 8 ohms
- Min. power 8 watts (9 dBW)
- Max. power 250 watts (24 dBW)

**AS-1373**
- Price $170 (kit)
- Dimensions 261/4H x 141/2W x 111/2D
- Weight 47 lbs
- Type Acoustic suspension
- Drivers 10" woofer, 4½" midrange, 1" dome tweeter
- Impedance 30 Hz to 22 kHz, ±0, -10 dB, 40 Hz to 20 kHz, ±3 dB
- Min. power 10 watts (10 dBW)
- Max. power 400 watts (26 dBW)
- Controls Midrange, tweeter

**Zodiac 1B**
- Price $135 (kit)
- Dimensions 301/2H x 15W x 111/4D
- Weight 50 lbs
- Type Magnetic suspension
- Drivers 10" woofer; 1½" dome tweeter
- Impedance 8 ohms
- Min. power 15 watts (11.75 dBW)
- Max. power 150 watts (21.75 dBW)
- Controls None

**Features**
- Tweeter gap filled with ferrofluid

**AS-1363**
- Price $130 (kit)
- Dimensions 231/2H x 141/4W x 111/2D
- Weight 40 lbs
- Type Acoustic suspension
- Drivers 10" woofer, 4½" midrange, 1" dome tweeter
- Impedance 30 Hz to 20 kHz, ±10 dB
- Controls Midrange, tweeter

**AS-1332**
- Price $58 (kit)
- Dimensions 191/2H x 101/2W x 8D
- Weight 15 lbs
- Type Infinite baffle
- Drivers 8" woofer; 1¼" tweeter
- Impedance 40 Hz to 20 kHz, ±10 dB, 50 Hz to 18 kHz, ±3 dB
- Controls Tweeter

**HECO**
Hammond Industries, Inc.
155 Michael Drive
Syosset, N.Y. 11791

**Features**
- Tweeter gap filled with ferrofluid

**Models also available**
- AS-1344, $150 (kit); AS-1342, $75 (kit)

**Models also available**
- Concertmaster, $1,380; Zodiac 300B, $275; Zodiac 1B, $135
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Crossover</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-351</td>
<td>$170</td>
<td>N/A</td>
<td>21 lbs.</td>
<td>Ventilated</td>
<td>12&quot; woofer, 5&quot; cone midrange, 1&quot; voice coil horn tweeter</td>
<td>42 Hz to 20 kHz, 4 db re 94 dB</td>
<td>8 ohms</td>
<td>8 ohms</td>
<td>5 watts</td>
<td>40 watts</td>
<td>Tweeter, midrange</td>
<td>3-way, balanced, time-aligned transducers</td>
</tr>
<tr>
<td>120</td>
<td>$100</td>
<td>30 Hz to 20 kHz, 98 dB SPL at 1 meter at 1 watt</td>
<td>6 ohms</td>
<td>Vented</td>
<td>12&quot; woofer, 5&quot; cone midrange, 1&quot; voice coil horn tweeter</td>
<td>42 Hz to 20 kHz, 4 db re 94 dB</td>
<td>8 ohms</td>
<td>8 ohms</td>
<td>5 watts</td>
<td>40 watts</td>
<td>Tweeter, midrange</td>
<td>3-way, balanced, time-aligned transducers</td>
</tr>
<tr>
<td>10</td>
<td>$170</td>
<td>N/A</td>
<td>21 lbs.</td>
<td>Ventilated</td>
<td>12&quot; woofer, 5&quot; cone midrange, 1&quot; voice coil horn tweeter</td>
<td>42 Hz to 20 kHz, 4 db re 94 dB</td>
<td>8 ohms</td>
<td>8 ohms</td>
<td>5 watts</td>
<td>40 watts</td>
<td>Tweeter, midrange</td>
<td>3-way, balanced, time-aligned transducers</td>
</tr>
<tr>
<td>12</td>
<td>$100</td>
<td>30 Hz to 20 kHz, 98 dB SPL at 1 meter at 1 watt</td>
<td>6 ohms</td>
<td>Vented</td>
<td>12&quot; woofer, 5&quot; cone midrange, 1&quot; voice coil horn tweeter</td>
<td>42 Hz to 20 kHz, 4 db re 94 dB</td>
<td>8 ohms</td>
<td>8 ohms</td>
<td>5 watts</td>
<td>40 watts</td>
<td>Tweeter, midrange</td>
<td>3-way, balanced, time-aligned transducers</td>
</tr>
</tbody>
</table>

**HITACHI**

**Hitachi Sales Corp. of America**

401 W. Artesia Blvd.

Compton, Calif. 90220

**HS-430**

- **Price:** $400
- **Dimensions:** 26 1/4" x 14 1/4"W x 14 15/16"D
- **Weight:** 46 lbs. 3 oz.
- **Type:** Bass reflex
- **Response:** 35 Hz to 20 kHz, -15 dB
- **Crossover:** 700 Hz, 4 kHz
- **Impedance:** 8 ohms
- **Max. power:** 120 watts (20.75 dBW)
- **Controls:** Dual
- **Features:** Metal cone, gathered edge

**HS-330**

- **Price:** $290
- **Dimensions:** 22 1/4"H x 12 1/4"W x 12 1/4"D
- **Weight:** 32 lbs.
- **Type:** Acoustic suspension

**IMPACT**

**Unicronex Corp.**

1171 Landmeier Rd.

Elk Grove, Ill. 60007

**Impact 8**

- **Price:** $399
- **Dimensions:** 26 1/4"H x 13 1/4"W x 12 3/4"D
- **Weight:** 64 lbs.
- **Type:** Balanced, ducted-port speaker system with time-aligned transducers
- **Drivers:** 12" woofer, 5" cone midrange, 2" x 5" horn tweeter
- **Response:** 30 Hz to 23 kHz, 105 dB SPL at 1 meter at 1 watt
- **Crossover:** 300 Hz, 7 kHz
- **Impedance:** 8 ohms (nominal)
- **Min. power:** 15 watts (10 dBW)
- **Max. power:** 150 watts (21.75 dBW)
- **Controls:** Tweeter, midrange, +3 dB

**Impact 2**

- **Price:** $149
- **Dimensions:** 21 3/10"H x 11 3/10"W x 9 1/2"D
- **Weight:** 21 lbs.
- **Type:** Balanced, ducted-port speaker system with time-aligned transducers
- **Drivers:** 8" woofer/midrange, 2 1/4" tonsil horn tweeter
- **Response:** 60 Hz to 20 kHz, 98 dB SPL at 1 meter at 1 watt
- **Crossover:** 3 1/2 kHz
- **Impedance:** 8 ohms (nominal)
- **Min. power:** 5 watts (7 dBW)
- **Max. power:** 50 watts (17 dBW)

**Models also available**

Impact 4, $199

**INFINITY**

**Infinity Systems, Inc.**

7930 Deering Ave.

Canoga Park, Calif. 91304

**Reference Standard 4.5**

- **Price:** $3,300
- **Dimensions:** 94 1/2"H x 26 1/2"W x 14 1/4"D

1980 Edition
<table>
<thead>
<tr>
<th>Models also available</th>
<th>Reference Standard 2.5, $784; 3000B, $235, Qa, $165</th>
</tr>
</thead>
</table>

### Reference Standard 1.5

| Price | $470 |
| Dimensions | 26 x 15 x 11 |
| Type | Dynamic |
| Drivers | 12" Infinity/Watkins polypropylene woofer, 5" polypropylene midrange, EMITC tweeter |
| Response | 38 Hz to 32 kHz, ±3 dB |
| Crossover | 350 Hz, 5 kHz |
| Impedance | 4 ohms |
| Min. power | 100 watts (20 dBW) |
| Max. power | 500 watts (27 dBW) |
| Features | Passive crossover, controls midrange and tweeter levels, electronic crossover controls bass and midrange crossover frequencies and levels; separate bias switch on back of speaker |
| Weight | 43 lbs. |

### INNOJECT

| Price | $247 |
| Dimensions | 36 x 10 x 15 |
| Type | Dynamic transmission line |
| Drivers | Two 5" Baxt's woofers; one 1 1/8 Mylar dome midrange; 1" Mylar dome tweeter |
| Response | 35 Hz to 20 kHz, ±3 dB |
| Crossover | 3.5 kHz, 7.5 kHz |
| Impedance | 5 ohms |
| Min. power | 35 watts (15.5 dBW) |
| Max. power | 200 watts (23 dBW) |
| Controls | Fuse protection |
| Features | Asymmetrical geometry to eliminate creation of standing waves inside and outside of enclosure; narrow enclosure to allow full radiation of sound waves resulting in wide dispersion |
| Weight | 48 lbs. |

### Column II

| Price | $384 |
| Dimensions | 36 x 14 W x 12.5 D |
| Type | Dynamic |
| Drivers | Two 10" woofers; 4 1/8" cone midrange; 2 specially modified hand-treated piezoelectric tweeters |
| Response | 35 Hz to 20 kHz, ±3 1/2 dB |
| Crossover | 750 Hz, 5 kHz |
| Impedance | 8 ohms |
| Min. power | 15 watts (11.75 dBW) |
| Max. power | 250 watts (24 dBW) |
| Features | Midrange, tweeter |
| Design | Solid oak veneer |
| Weight | 64 lbs. |

### Quantum Jr.

| Price | $299 |
| Dimensions | 25 x 14.1/2 x 12 |
| Type | Dynamic |
| Drivers | 12" woofer; 1/8" dome midrange; Infinity EMITC tweeter |
| Response | 40 Hz to 32 kHz, ±3 dB |
| Crossover | 600 Hz, 4 kHz |
| Impedance | 4 ohms |
| Min. power | 25 watts (14 dBW) |
| Max. power | 200 watts (23 dBW) |
| Controls | Midrange, tweeter |
| Features | Optional metal pedestals |
| Weight | 64 lbs. |

### W-1 Subwoofer

| Price | $895 |
| Dimensions | 17 x 22 x 22 (floor standing) |
| Type | Slot-loaded |
| Drivers | 10" woofer; 1" cone midrange |
| Response | 30 Hz to 100 kHz, ±1.5 dB re 85 dB |
| Crossover | External electronic crossover: 18 dB/octave at 100 Hz |
| Impedance | 4 ohms |
| Min. power | 60 watts (18 dBW) |
| Max. power | 200 watts (23 dBW) |
| Controls | Level (when used with Interphase crossover amp) |
| Features | Designed to extend bass response of high-quality wide-range speakers, harmonic distor |
| Response | 30 Hz to 100 kHz, ±3 dB re 85 dB |
| Crossover | External electronic crossover: 18 dB/octave at 100 Hz |
| Impedance | 4 ohms |
| Min. power | 20 watts (13 DW) |
| Max. power | 100 watts (20 DW) |
| Controls | Tweeter |
| Weight | 82 lbs. |

### JANSSEN

| Price | $530 |
| Dimensions | 27 x 14 x 13 D |
| Type | Dynamic/electrostatic |
| Drivers | 10" woofer; passive radiator; 2 mid-frequency electrostatic tweeters; 2 high-frequency electrostatic tweeters |
| Response | 33 Hz to 2 kHz, ±3.5 dB re 86 dB |
| Crossover | 800 Hz, 4 kHz |
| Impedance | 4 ohms |
| Min. power | 20 watts (13 DBW) |
| Max. power | 100 watts (20 DW) |
| Controls | Tweeter, midrange |
| Features | Low frequencies extended by 4-pole passive radiator system; bipolar radiation of mids and highs |
| Weight | 49 lbs. |

### W-2 Subwoofer

| Price | $995 |
| Dimensions | 17 x 22 x 22 (floor-standing) |
| Type | Slot-loaded |
| Drivers | 15" dynamic |
| Response | 33 to 100 Hz, ±2 dB re 85 dB |
| Crossover | External electronic crossover: 18 dB/octave at 100 Hz |
| Impedance | 4 ohms |
| Min. power | 20 watts (13 DBW) |
| Max. power | 100 watts (20 DW) |
| Controls | Tweeter |
| Weight | 82 lbs. |

### Z-20

| Price | $375 |
| Dimensions | 32 x 14 x 13 D |
| Type | Dynamic/electrostatic |
| Drivers | 12" woofer; 2 electrostatic tweeters |
| Response | 30 Hz to 20 kHz, ±3 dB re 82 dB |
| Crossover | 800 Hz |
| Impedance | 4 ohms |
| Min. power | 20 watts (13 DBW) |
| Max. power | 100 watts (20 DW) |
| Controls | Tweeter |
| Weight | 49 lbs. |

### Z-10

| Price | $315 |
| Dimensions | 24 x 13 x 11 D |
| Type | Dynamic/electrostatic |
| Drivers | 15" woofer; 2 electrostatic tweeters |
| Response | 28 Hz to 30 kHz, ±3 dB re 82 dB |
| Crossover | 800 Hz |
| Impedance | 4 ohms |
| Min. power | 20 watts (13 DBW) |
| Max. power | 100 watts (20 DW) |
| Controls | Tweeter |
| Weight | 49 lbs. |
### JBL

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Drivers</th>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 Hz</td>
<td>3 kHz</td>
<td>Dynamic</td>
<td>225 lbs</td>
<td>38 1/4 x 17 x 13 D</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Drivers</th>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 x 13 x 10 D</td>
<td>8 ohms</td>
<td>Bass reflex</td>
<td>29 lbs</td>
<td>24 1/4 x 17 1/4 x 12 1/4 D</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Drivers</th>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 x 13 x 10 D</td>
<td>8 ohms</td>
<td>Direct radiator</td>
<td>10 lbs (20 dB)</td>
<td>24 1/4 x 17 1/4 x 12 1/4 D</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Drivers</th>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 watts (23 dBW)</td>
<td>8 ohms</td>
<td>Tweeter</td>
<td>10 lbs (10 dB)</td>
<td>24 1/4 x 17 1/4 x 12 1/4 D</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Drivers</th>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>Tweeter</td>
<td>Midrange</td>
<td>88 dB SPL at 1 meter</td>
<td>1 watt</td>
<td>24 1/4 x 17 1/4 x 12 1/4 D</td>
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### Radiance Series

<table>
<thead>
<tr>
<th>Radiance 902</th>
<th>Price</th>
<th>$199.95</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>27 1/4 x 17 1/4 x 12 1/4 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>44 lbs 8 oz</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Passive radiator</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Radiance 502</th>
<th>Price</th>
<th>$139.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21 1/2 x 13 1/2 x 11 3/16</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>27 1/2 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Models also available</th>
<th>Price</th>
<th>$210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>28 1/2 x 11 x 11 x 1/2 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>35 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
<td></td>
</tr>
</tbody>
</table>

### Contrara Tower

<table>
<thead>
<tr>
<th>Contrara Tower</th>
<th>Price</th>
<th>$210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>14 x H x 9 W x 6 1/4 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>12 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
<td></td>
</tr>
</tbody>
</table>

### Piccola Two

<table>
<thead>
<tr>
<th>Piccola Two</th>
<th>Price</th>
<th>$110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>14 x H x 9 W x 6 1/4 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>12 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Passive</td>
<td></td>
</tr>
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### Jennings RESEARCH

<table>
<thead>
<tr>
<th>Jennings Research</th>
<th>Price</th>
<th>$275</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21 1/2 x 18 W x 18 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>40 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Sealed box</td>
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### System B

<table>
<thead>
<tr>
<th>System B</th>
<th>Price</th>
<th>$550</th>
</tr>
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<tbody>
<tr>
<td>Dimensions</td>
<td>33 x H x 16 1/4 W x 11 1/4 D</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>78 lbs</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
<td></td>
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</tbody>
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---

1. **JBL**
2. **Radiance Series**
3. **Contrara Tower**
4. **Piccola Two**
5. **Jennings Research**
6. **System B**
### 3-DM-2/WDR-4M, "The Statesman"

<table>
<thead>
<tr>
<th>Price</th>
<th>$640</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>42 1/4&quot; x 19 1/4&quot; x 20 1/8&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>100 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Top unit, &quot;Pentagon&quot;: 5 midrange drivers; 5 tweeters; bass unit: 4 8&quot; woofers</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Crossover</td>
<td>2.4 kHz</td>
</tr>
<tr>
<td>Features</td>
<td>360-degree radiation pattern (360 horizontal, 180 vertical)</td>
</tr>
</tbody>
</table>

Models also available: 3-DM-2000/WDR-1M, "The Ambassador", $605

### 3DM-1/WHIS-2, "The Diplomat"

<table>
<thead>
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<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>27 1/4&quot; x 24 1/4&quot; x 18 1/2&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>80 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Top unit, &quot;Pentagon Junior&quot;: 4 full-range drivers, 1 tweeter; bass unit: two 10&quot; woofers facing downwards</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Crossover</td>
<td>350 Hz to 5 kHz</td>
</tr>
<tr>
<td>Features</td>
<td>Full 5-year transferable warranty</td>
</tr>
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</table>

### SK-1000 II

<table>
<thead>
<tr>
<th>Price</th>
<th>$280</th>
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<tr>
<td>Dimensions</td>
<td>25 1/4&quot; x 14 1/4&quot; x 13 1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs. 8 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; cone woofer; 3 15/16&quot; dome cone midrange, 2 1/16&quot; x 5/16&quot; ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 50 kHz, 91.5 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>500 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
</tbody>
</table>

### 3-DM-2000/WDR-2H, "The President"

<table>
<thead>
<tr>
<th>Price</th>
<th>$799</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>42 1/4&quot; x 21 1/4&quot; x 20 1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>120 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Top unit, &quot;Pentagon&quot;: 5 midrange domes, 3 dome tweeters; bass unit: two 10&quot; woofers</td>
</tr>
</tbody>
</table>

Models also available: JR-149, $495/pr.

### JVC

#### U.S. JVC Corp.

#### Hi Fi Division

#### 58-75 Queens Midtown

#### Expressway

#### Maspeth, N.Y. 11378

### Zero 9

<table>
<thead>
<tr>
<th>Price</th>
<th>$700</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>41 1/4&quot; x 16 1/16&quot; x 16 1/8&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>92 lbs. 6.4 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 12&quot; cone woofers; 3 15/16&quot; dome cone midrange, 2 1/16&quot; x 5/16&quot; ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>25 Hz to 50 kHz, 92 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>450 Hz, 5.5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
</tbody>
</table>

### Zero 5

<table>
<thead>
<tr>
<th>Price</th>
<th>$400</th>
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</thead>
<tbody>
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<td>Dimensions</td>
<td>25 1/4&quot; x 14 1/4&quot; x 13 1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>46 lbs. 3.2 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Bass reflex</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; cone woofer; 3 15/16&quot; dome cone midrange, 2 1/16&quot; x 5/16&quot; ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>35 Hz to 50 kHz, 91.5 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>500 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
</tbody>
</table>

### Models also available: 3-DM-2000/WDR-1M, "The Ambassador", $605

### Speakers and Associated Sound, Inc.

#### 420 Austin Place

#### Bronx, N.Y. 10455

### 3-DM-2000/WDR-2H, "The President"

<table>
<thead>
<tr>
<th>Price</th>
<th>$799</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>42 1/4&quot; x 21 1/4&quot; x 20 1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>120 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Top unit, &quot;Pentagon&quot;: 5 midrange domes, 3 dome tweeters; bass unit: two 10&quot; woofers</td>
</tr>
</tbody>
</table>

Models also available: JR-149, $495/pr.

#### JVRJ Speakers

#### 58-75 Queens Midtown

#### Expressway

#### Maspeth, N.Y. 11378

#### Models also available: 3-DM-2000/WDR-1M, "The Ambassador", $605

### High Fidelity's Buying Guide to Stereo Components
### Titan Labyrinth

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>48H x 16W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>375 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Dual, 8(^{\text{th}}) trapezoidal double helical transmission lines and tapered acoustical line</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 12(^{\text{th}}) rubber composition cone woofers; two 5(^{\text{th}}) Bextrene cone midranges; two 1 (4/5)(^{\text{th}}) magnet-liquid tweeters; two 1 (1/2)(^{\text{th}}) dome super tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>14 Hz to 22 kHz, ±2 1/2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>90 Hz, 2 kHz, 7 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms (3 2 ohms min; 9 ohms max)</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11 75 dBW) per channel</td>
</tr>
<tr>
<td>Max. power</td>
<td>300 watts (24 75 dBW) per channel</td>
</tr>
<tr>
<td>Controls</td>
<td>4 level controls</td>
</tr>
<tr>
<td>Features</td>
<td>Complete with base and casters; may be bi- or triamped; fuse protection; phase-corrected</td>
</tr>
</tbody>
</table>

### Impulse Subwoofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$699</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>48H x 16W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>125 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Tapered acoustical line/labyrinth</td>
</tr>
<tr>
<td>Drivers</td>
<td>12(^{\text{th}}) long excursion woofer with synthetic composition deep cone</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 22 kHz, ±2 1/2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>40 Hz, 90 Hz, 175 Hz or no internal crossover</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Four built-in sets of terminals in back; biamped with or without electronic crossover</td>
</tr>
</tbody>
</table>

### Labyrinth Subwoofer

<table>
<thead>
<tr>
<th>Price</th>
<th>$699</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>48H x 16W x 16D</td>
</tr>
<tr>
<td>Weight</td>
<td>85 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Tapered acoustical line and semi-labyrinth time-patterned and phase-corrected</td>
</tr>
<tr>
<td>Drivers</td>
<td>12(^{\text{th}}) cone woofer, 5(^{\text{th}}) Bextrene cone midrange; 1 (1/2)(^{\text{th}}) magnet-liquid cooled dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 22 kHz, ±2 5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>175 Hz, 2 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms (5 ohms min; 14 ohms max)</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11 75 dBW) per channel</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW) per channel</td>
</tr>
<tr>
<td>Controls</td>
<td>2 level controls</td>
</tr>
<tr>
<td>Features</td>
<td>Four built-in sets of terminals in back; biamped with or without electronic crossover</td>
</tr>
</tbody>
</table>

### Models also available

- **Zero 3**, $320; SK-700 II, $180; SK-600 II, $240/pr; S-M3, $179/pr
- **KA/Itinotle Audio Titan Labyrinth**
- **Jonson "The President"**, $1,995
- **JVC Zero 9**, $950

---

### Infinite Reference

**Standard 4.5**

| Max. power | 45 Hz to 20 kHz, 88 dB SPL at 1 meter at 1 watt |
| Crossover | 2 5 kHz |
| Impedance | 8 ohms |
| Max. power | 80 watts (19 dBW) |

### Controls

- 4 level controls
- KA, Var-I-Vent (adjusts system resonance); may be bi- or triamped; fuse protection; phase-corrected; liquid-cooled midtweeters and super tweeters

### The Labyrinth

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,169</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>52H x 16W x 16D (with base)</td>
</tr>
<tr>
<td>Weight</td>
<td>165 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Tapered acoustical trapezoidal/labyrinth line</td>
</tr>
<tr>
<td>Drivers</td>
<td>12(^{\text{th}}) cone woofer, 5(^{\text{th}}) Bextrene cone midrange; 1 (1/2)(^{\text{th}}) dome midtweeter; 1 (1/2)(^{\text{th}}) dome super tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>16 Hz to 22 kHz, ±2 5 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>90 Hz, 2 kHz, 7 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms (5 ohms min; 11 ohms max)</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11 75 dBW) per channel</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW) per channel</td>
</tr>
<tr>
<td>Controls</td>
<td>3 level controls</td>
</tr>
<tr>
<td>Features</td>
<td>May be bi- or triamped; fuse protection; phase-corrected, magnetic-liquid tweeter</td>
</tr>
</tbody>
</table>

### Impulse

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,499</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>26H x 14(1/4)W x 14D</td>
</tr>
<tr>
<td>Weight</td>
<td>80 lbs</td>
</tr>
<tr>
<td>Type</td>
<td>Coherent phase</td>
</tr>
<tr>
<td>Drivers</td>
<td>12(^{\text{th}}) woofer, 5(^{\text{th}}) cone midrange; 1 (1/2)(^{\text{th}}) dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 25 kHz, ±2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Impedance</td>
<td>40 watts (16 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Magnetic, tweeter level</td>
</tr>
<tr>
<td>Features</td>
<td>LED &quot;Listening Window&quot; power indicator; midrange/tweeter assembly can be rotated for best stereo placement</td>
</tr>
</tbody>
</table>

---

**1980 Edition**
### Cantata
- **Price**: $625 (assembled); $395 (kit)
- **Dimensions**: 32 1/10H x 15 2/5W x 13 2/5D
- **Weight**: 70 lbs.
- **Type**:
  - Infinite baffle
- **Drivers**:
  - 13 x 9" woofers, 5" cone midrange; 1 1/2" dome tweeter
- **Response**: 35 Hz to 20 kHz, ± 3 dB
- **Crossover**: 250 Hz, 3 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11.75 dBW)
- **Max. power**: 150 watts (21.75 dBW)
- **Controls**:
  - Midrange; tweeter level
- **Features**:
  - Walnut or teak wood cabinet

### LS-1200
- **Price**: $365
- **Dimensions**: 25 19/32H x 13 25/32W x 12 1/2D
- **Weight**: 47 lbs. 5 oz.
- **Type**:
  - Vertical high-fidelity drivers
- **Drivers**:
  - 10" woofer; 4 1/2" midrange; 9/16" high-frequency driver
- **Response**: 35 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
- **Crossover**: 1 kHz, 6 kHz
- **Impedance**: 8 ohms
- **Min. power**: 40 watts (16 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Features**:
  - Linear response

### Seven
- **Price**: $1,250
- **Dimensions**: 37 3/16H x 18 1/16W x 15D
- **Weight**: 121 lbs.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - 14" woofer; 4 1/4" midrange; 1 1/4" tweeter; 3/4" super tweeter
- **Response**: 20 Hz to 35 kHz (94 dB SPL at 1 watt at 1 meter)
- **Crossover**: 400 Hz, 4 kHz; 8 kHz
- **Impedance**: 8 ohms
- **Min. power**: 50 watts (21.75 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Features**:
  - Midrange; tweeter; super tweeter

### 304
- **Price**: $295
- **Dimensions**: 26 7/10H x 11 1/4W x 12 2/5D
- **Weight**: 36 lbs.
- **Type**:
  - Infinite baffle
- **Drivers**:
  - Two 8" woofers; 1" dome tweeter
- **Response**: 50 Hz to 20 kHz, ± 2 dB
- **Crossover**: 45 kHz, 3 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11.75 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Features**:
  - Midrange level
  - Walnut or teak wood cabinet

### Corelli
- **Price**: $215
- **Dimensions**: 18H x 8 3/5W x 11D
- **Weight**: 20 lbs.
- **Type**:
  - Infinite baffle
- **Drivers**:
  - 8" woofer; 4 1/2" dome tweeter
- **Response**: 50 Hz to 30 kHz, ± 3 dB
- **Crossover**: 3 1/2 kHz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 100 watts (17 dBW)
- **Features**:
  - Walnut or teak wood cabinet

### LS-407B
- **Price**: $245
- **Dimensions**: 25 1/2H x 15W x 13 3/4D
- **Weight**: 40 lbs.
- **Type**:
  - Vented
- **Drivers**:
  - 10" woofer; 4 1/4" midrange; 1 1/4" tweeter
- **Response**: 40 Hz to 20 kHz (93 dB SPL at 1 watt at 1 meter)
- **Crossover**: 2 kHz; 5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 20 watts (13 dBW)
- **Max. power**: 120 watts (20.75 dBW)
- **Controls**:
  - Mid/high frequency

### LS-404B
- **Price**: $285/pr
- **Dimensions**: 21H x 12 1/8W x 10D
- **Weight**: 26 lbs. 3 oz.
- **Type**:
  - Vented
- **Drivers**:
  - 8" woofer; 1 1/4" tweeter
- **Response**: 50 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
- **Crossover**: 4 kHz
- **Impedance**: 8 ohms
- **Min. power**: 10 watts (10 dBW)
- **Max. power**: 80 watts (19 dBW)

### LS-1900
- **Price**: $1,165
- **Dimensions**: 41 17/32H x 22 2/32W x 17 23/32D
- **Weight**: 127 lbs. 14 oz.
- **Type**:
  - Vented
- **Drivers**:
  - 13" woofer, 5 1/4" midrange; high-frequency drivers
- **Response**: 30 Hz to 21 kHz, 92 dB SPL at 1 meter at 1 watt
- **Crossover**: 600 Hz, 5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 50 watts (17 dBW)
- **Max. power**: 220 watts (22.25 dBW)
- **Controls**:
  - Mid/high frequency
- **Features**:
  - Linear response; phase coherent mid- and high-frequency drivers

### LS-4086
- **Price**: $550. LS-4086, $315.
- **Dimensions**: 31 11/16H x 17 1/4W x 11 3/4D
- **Weight**: 66 lbs.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - 4 1/4" woofer; tweeter
- **Response**: 50 Hz to 16 kHz, ± 1.5 dB (80 dB SPL)
- **Crossover**: 500 Hz, 3 kHz
- **Min. power**:
  - Low frequency: 120 watts (20.75 dBW); mid-frequency: 60 watts (17.75 dBW); high-frequency: 60 watts (17.75 dBW)
- **Controls**:
  - Woofer; tweeter
- **Features**:
  - Plug-in compensators for room placement; 0, 1, 2, or 3 surfaces

### KIRKSAETER
- **Price**: $1,400
- **Dimensions**: 26 1/4H x 18 1/16W x 13 3/4D
- **Weight**: 59 lbs. 8 oz.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - Four 8" long excursion woofers; four 1 1/2" dome midranges; four 1" dome tweeters
- **Response**: 16 Hz to 25 kHz (DIN)
- **Crossover**: 650 Hz, 4.5 kHz
- **Impedance**: 4/8 ohms
- **Min. power**: 30 watts (14.75 dBW)
- **Max. power**: 400 watts (25 dBW)
- **Features**:
  - Two tweeter, 2 midrange controls adjustable from 0 to 6 dB

### MONITOR 250
- **Price**: $650
- **Dimensions**: 26 1/4H x 18 1/16W x 9 3/4D
- **Weight**: 46 lbs. 5 oz.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - Two 10" long excursion woofers; two 1 1/2" dome midranges; two 1" dome tweeters
- **Response**: 18 Hz to 25 kHz (DIN)
- **Crossover**: 650 Hz, 4 kHz
- **Impedance**: 4/8 ohms
- **Min. power**: 20 watts (13 dBW)
- **Max. power**: 250 watts (24 dBW)
- **Controls**:
  - Two tweeter, 2 midrange controls adjustable from 0 to 6 dB
- **Features**:
  - Same as Monitor 400

### MONITOR 100
- **Price**: $300 (walnut); $325 (oak or black oak)
- **Dimensions**: 16"H x 10"W x 8D
- **Weight**: 18 lbs.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - 8" woofer; 1 1/2" dome midrange; 1" dome tweeter
- **Response**: 28 Hz to 25 kHz (DIN)
- **Crossover**: 650 Hz, 4.5 kHz
- **Impedance**: 4/8 ohms
- **Min. power**: 10 watts (10 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Controls**:
  - Tweeter (adjustable 0 to 6 dB); midrange (adjustable from 0 to 6 dB)

### Models also available
- MONITOR 150, $600 (walnut); $650 (oak or black oak)
- MONITOR 120, $375 (walnut); $400 (oak or black oak)

### KLEIN & HUMMEL
- **Gotham Audio Corp.**
- **Address**: 741 Washington St.
- **New York, N.Y. 10014**

### 0-92
- **Price**: $3,360
- **Dimensions**: 31 11/16H x 17 1/4W x 11 3/4D
- **Weight**: 66 lbs.
- **Type**:
  - Acoustic suspension
- **Drivers**:
  - 4 cone
- **Response**: 50 Hz to 16 kHz, ± 1.5 dB (80 dB SPL)
- **Crossover**: 500 Hz, 3 kHz
- **Min. power**:
  - Low frequency: 120 watts (20.75 dBW); mid-frequency: 60 watts (17.75 dBW); high-frequency: 60 watts (17.75 dBW)
- **Controls**:
  - Woofer; tweeter
- **Features**:
  - System includes two 30-watt amplifiers and crossover
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Controls</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLH-1</td>
<td>$1,100/pr. (including Analog Bass Computer)</td>
<td>304 x 10xW x 11D</td>
<td>55 lbs ea</td>
<td>Computer controlled vented sixth-order Butterworth alignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Klipsch &amp; Associates P.O. Box 688 Hope, Ark. 71801</td>
</tr>
<tr>
<td>KLH-3</td>
<td>$450 (including Analog Bass Computer)</td>
<td>12 1/2H x 9 1/2W x 6D</td>
<td>25 lbs</td>
<td>Computer controlled vented sixth-order Butterworth alignment</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CM/1030 Milwaukee, Wis. 53212</td>
</tr>
<tr>
<td>KLH-4</td>
<td>$959 (walnut oil, walnut lacquer); $1,374 (rosewood, teak, oak, cherry)</td>
<td>35 1/4H x 30 1/4W x 18 1/4D</td>
<td>125 lbs</td>
<td>6&quot; die-cast frame dynamic bass unit with natural polypropylene cone, one 1&quot; dome tweeter with butyl loaded synthetic soft dome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Proprietary drivers with natural polypropylene cones</td>
<td></td>
</tr>
<tr>
<td>331B</td>
<td>$100</td>
<td>21H x 12W x 8 3/4D</td>
<td>55 lbs ea</td>
<td>4 1/2&quot; cone midrange; 1&quot; soft-dome tweeter; 1 1/2&quot; cone tweeter on rear</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>klipsch.com/1020 Syosset, N.Y. 11791</td>
<td></td>
</tr>
<tr>
<td>CM/530</td>
<td>$229.95</td>
<td>24H x 13 1/4W x 11 1/4D</td>
<td>35 lbs</td>
<td>Vented</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Proprietary drivers with natural polypropylene cones</td>
<td></td>
</tr>
<tr>
<td>Heresy</td>
<td>$339 (walnut oil, walnut lacquer); $332 (walnut without bass); $436 (rosewood, teak, oak, cherry); $285 (birch, raw, black)</td>
<td>21H x 15 1/4W x 13 1/4D</td>
<td>55 lbs</td>
<td>Dynamic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Models also available Cornwall, $597 (walnut oil, walnut lacquer); $585 (walnut without base); $746 (rosewood, teak, oak, cherry); $459 (birch, raw, black)</td>
<td></td>
</tr>
<tr>
<td>Models also available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>La Scala</td>
<td>$618 (birch, raw, black); $646 (birch lacquer); $671 (birch lacquer-stained)</td>
<td>35 1/4H x 23 1/4W x 24 1/4D</td>
<td>110 lbs</td>
<td>Dynamic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LAFAYETTE Lafayette Radio Electronics 111 Jericho Turnpike Syosset, N.Y. 11791</td>
<td></td>
</tr>
</tbody>
</table>
### 1009
- **Price**: $99.99
- **Dimensions**: 24H x 14 1/2W x 10 1/2D
- **Weight**: 40 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 12" woofer, 5" midrange; 3" tweeter
- **Response**: 40 Hz to 18 kHz
- **Impedance**: 8 ohms
- **Min. power**: 5 watts (7 dBW)
- **Max. power**: 55 watts (17.25 dBW) peak
- **Controls**: Midrange, tweeter
- **Features**: Simulated birch finish

### 1005
- **Price**: $59.99
- **Dimensions**: 20H x 12W x 6 1/2D
- **Weight**: 21 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 10" woofer, 2 1/4" tweeter
- **Response**: 80 Hz to 20 kHz
- **Crossover**: 2.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 12 watts (10.75 dBW)
- **Max. power**: 50 watts (17 DBW)
- **Features**: Die-cast aluminum cabinets; perforated metal grille; includes adjustable mounting brackets

### Pip Speak
- **Price**: $99.98/pr.
- **Dimensions**: 7 1/2H x 4 1/2W x 4D
- **Weight**: 6 lbs.
- **Type**: Acoustic suspension mini speaker system
- **Drivers**: 4" woofer; 1" soft-dome tweeter
- **Response**: 80 Hz to 20 kHz
- **Crossover**: 2.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 12 watts (10.75 dBW)
- **Max. power**: 50 watts (17 DBW)
- **Features**: Die-cast aluminum cabinet; perforated metal grille; includes adjustable mounting brackets

### Models also available
- **Price**: $79.99, 1003, $44.99

### LANCER
Lancer Electronics
10530 Lawson River Ave.
Fountain Valley, Calif. 92708

### SC-9
- **Price**: $39.50
- **Dimensions**: 28H x 18W x 13 1/4D
- **Weight**: 65 lbs.
- **Type**: Vented
- **Drivers**: Two 12" woofers; 5 1/4" dome midrange; 3 1/4" dome tweeter
- **Response**: 20 Hz to 22 kHz, 92 dB SPL at 1 meter at 1 watt
- **Crossover**: 500 Hz, 4.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 8 watts (9 DBW)
- **Max. power**: 120 watts (20.75 DBW)
- **Controls**: Midrange, tweeter
- **Features**: Genuine walnut solid and veneer cabinets; black double-knit grilles; 5-year warranty

### SC-9T
- **Price**: $249.50
- **Dimensions**: 38H x 12W x 12D
- **Weight**: 57 lbs.
- **Type**: Acoustic suspension

### SC-4A
- **Price**: $229.50
- **Dimensions**: 3 1/2H x 15W x 12 1/4D
- **Weight**: 53 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 12" woofer; 5" midrange; 2 1/4" tweeter
- **Response**: 20 Hz to 20 kHz, 91 dB SPL at 1 meter at 1 watt
- **Crossover**: 750 Hz, 6 kHz
- **Impedance**: 8 ohms
- **Min. power**: 10 watts (10 DBW)
- **Max. power**: 100 watts (20 DBW)
- **Controls**: Midrange; tweeter
- **Features**: Genuine oak veneer and solid; brown double-knit grille; 5-year warranty

### SC-10A
- **Price**: $139.50
- **Dimensions**: 20 1/4H x 12 1/2W x 10D
- **Weight**: 33 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 10" woofer; 2 1/4" tweeter
- **Response**: 20 Hz to 20 kHz, 90 dB SPL at 1 meter at 1 watt
- **Crossover**: 2.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 10 watts (10 DBW)
- **Max. power**: 100 watts (20 DBW)
- **Features**: Tweeter
- **Features**: Genuine walnut solid and veneer brown double-knit grille; 5-year warranty

### 9335-2
- **Price**: $99.50
- **Dimensions**: 25H x 14 1/4W x 11 1/4D
- **Weight**: 33 lbs.
- **Type**: Tubular; vented
- **Drivers**: 12" woofer; 2 1/4" tweeter
- **Response**: 30 Hz to 20 kHz, 93 dB SPL at 1 meter at 1 watt
- **Crossover**: 3 kHz
- **Impedance**: 8 ohms
- **Min. power**: 10 watts (10 DBW)
- **Max. power**: 100 watts (20 DBW)
- **Features**: Tweeter
- **Features**: Genuine walnut solid and veneer brown double-knit grille; 5-year warranty

### S.A.R.A.
Magnepan, Inc.
1645 9th St.
White Bear Lake, Minn. 55110

### MG-I
- **Price**: $495/pr.
- **Dimensions**: 59H x 22W x 13D
- **Weight**: 30 lbs.
- **Type**: Magnepan
- **Drivers**: Woofer; tweeter
- **Response**: 50 Hz to 16 kHz, ±4 dB
- **Crossover**: 2.1 kHz
- **Impedance**: 5 ohms
- **Min. power**: 30 watts (14.75 DBW)
- **Max. power**: 200 watts (23 DBW) continuous
- **Features**: Mirror-imaged matched pair; purely resistive load

### HD-880
- **Price**: $1,470/pr.
- **Dimensions**: 91H x 15W x 16 1/2D
- **Weight**: 100 lbs.
- **Type**: Isobarik loading
- **Drivers**: Two 10" woofers; 1" dome tweeter
- **Response**: 40 Hz to 20 kHz, ±2 dB
- **Impedance**: 4 ohms
- **Features**: Laminated PVC enclosure

### Linn Products Ltd.
Audiofile Systems
5750 Rymark Court
Indianapolis, Ind. 46250

### DMS Isobarik
- **Price**: $3,100/pr.
- **Dimensions**: 30H x 15W x 16 1/2D
- **Weight**: 100 lbs.
- **Type**: Isobarik loading
- **Drivers**: Two 5" midrange drivers; two 1" dome tweeters
- **Response**: 16 Hz to 20 kHz, ±1.5 dB
- **Crossover**: 375 Hz; 3 kHz
- **Impedance**: 4 ohms
- **Min. power**: 50 watts (17 DBW)
- **Max. power**: 500 watts (27 DBW)

### MAGNEPLANAR

### MG-IIA
- **Price**: $825/pr.
- **Dimensions**: 72H x 22W x 14D
- **Weight**: 45 lbs.
- **Type**: Magneplanar
- **Drivers**: Woofer; tweeter
- **Response**: 45 Hz to 16 kHz, ±4 dB
- **Crossover**: 2.1 kHz
- **Impedance**: 6 ohms
- **Min. power**: 30 watts (14.75 DBW)
- **Max. power**: 200 watts (23 DBW)
- **Features**: Mirror-imaged matched pair; purely resistive load

### HD-800
- **Price**: $420/pr.
- **Dimensions**: 26 1/2H x 15W x 11D
- **Weight**: 56 lbs. 10 oz.
- **Type**: VARIs (infinite baffle/ported)
- **Drivers**: 12 woofer; 5 midrange, 1 1/2" LPF dome tweeter; 1LPF dome super-tweeter
- **Response**: 30 Hz to 22 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt
- **Crossover**: 750 Hz; 2.3 kHz; 5 kHz
<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Controls</th>
<th>Max. power</th>
<th>Min. power</th>
<th>Impedance</th>
<th>Crossover</th>
<th>Response</th>
<th>Drivers</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD -770</td>
<td>Low stored energy loudspeakers</td>
<td>Midrange, tweeter, and super-tweeter L-pad controls</td>
<td>10 watts (10 dBW)</td>
<td>10 watts (10 dBW)</td>
<td>8 ohms</td>
<td>60 Hz to 18 kHz, ±4 dB re 90 dB</td>
<td>SPL at 1 meter at 1 watt</td>
<td>12” woofer; 5” midrange; 11/2” LPF dome tweeter, 1” LPF dome super-tweeter</td>
<td>28 lbs. 2 oz.</td>
<td>481/2H x 15W x 12D</td>
<td>$650/pr.</td>
</tr>
<tr>
<td>HD -440</td>
<td>Low stored energy loudspeakers</td>
<td>Midrange, tweeter, and super-tweeter L-pad controls</td>
<td>10 watts (10 dBW)</td>
<td>10 watts (10 dBW)</td>
<td>8 ohms</td>
<td>30 Hz to 22 kHz, ±3 dB re 90 dB</td>
<td>SPL at 1 meter at 1 watt</td>
<td>200 watts (23 dBV)</td>
<td>84 lbs.</td>
<td>521/2H x 121/2W x 11V4D</td>
<td>$449/pr.</td>
</tr>
</tbody>
</table>

**DESIGN SERIES**

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Controls</th>
<th>Max. power</th>
<th>Min. power</th>
<th>Impedance</th>
<th>Crossover</th>
<th>Response</th>
<th>Drivers</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>940</td>
<td>Low stored energy loudspeakers</td>
<td>Midrange, tweeter, and super-tweeter L-pad controls</td>
<td>100 watts (20 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>4 ohms</td>
<td>400 Hz; 900 kHz; 4 kHz</td>
<td>SPL at 1 meter at 1 watt</td>
<td>VARI Q® (Infinite baffle/ported)</td>
<td>84 lbs.</td>
<td>521/2H x 121/2W x 11V4D</td>
<td>$650/pr.</td>
</tr>
<tr>
<td>930</td>
<td>Low stored energy loudspeakers</td>
<td>Midrange, tweeter, and super-tweeter L-pad controls</td>
<td>10 watts (10 dBW)</td>
<td>10 watts (10 dBW)</td>
<td>8 ohms</td>
<td>33 Hz to 22 kHz, ±3 dB re 90 dB</td>
<td>SPL at 1 meter at 1 watt</td>
<td>VARI Q® (Infinite baffle/ported)</td>
<td>84 lbs.</td>
<td>521/2H x 121/2W x 11V4D</td>
<td>$449/pr.</td>
</tr>
<tr>
<td>Magnificat</td>
<td>Low stored energy loudspeakers</td>
<td>Midrange, tweeter, and super-tweeter L-pad controls</td>
<td>100 watts (20 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>4 ohms</td>
<td>400 Hz; 900 kHz; 4 kHz</td>
<td>SPL at 1 meter at 1 watt</td>
<td>VARI Q® (Infinite baffle/ported)</td>
<td>84 lbs.</td>
<td>521/2H x 121/2W x 11V4D</td>
<td>$650/pr.</td>
</tr>
</tbody>
</table>
**TL-2050**

- **Price**: $350
- **Dimensions**: 29 1/2 x 9 1/4 x 10 in
- **Weight**: 45 lbs.
- **Type**: Transmission line
- **Drivers**: 6" woofer; 1" dome tweeter
- **Response**: 36 Hz to 22 kHz, ±3 dB re 90 dB
- **SPL at 1 meter**: 1 watt
- **Crossover**: 1.2 kHz
- **Impedance**: 8 ohms
- **Min. power**: 35 watts (15.5 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Features**: None

**Gamma Gold 3000M**

- **Price**: $329
- **Dimensions**: 25 1/4 x 14 x 11 1/4 in
- **Weight**: 55 lbs.
- **Type**: Bass port
- **Drivers**: 10" heavy-duty butyl woofer; soft-dome midrange; soft-dome tweeter
- **Response**: 34 Hz to 20 kHz, ±3 dB re 90 dB
- **SPL at 1 meter**: 1 watt
- **Crossover**: 900 Hz, 4.4 kHz
- **Impedance**: 8 ohms
- **Min. power**: 35 watts (15.5 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Controls**: Midrange/tweeter

**Gamma 315X**

- **Price**: $289
- **Dimensions**: 27 1/4 x 15 7/8 x 11 1/4 in
- **Weight**: 50 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 15" woofer, 5" midrange, 2" polyaxial tweeter
- **Response**: 30 Hz to 20 kHz re 90 dB SPL at 1 meter
- **Crossover**: 600 Hz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 75 watts (18.75 dBW)
- **Controls**: Midrange/tweeter

**Gamma 310X**

- **Price**: $219
- **Dimensions**: 21 1/4 x 12 1/4 x 10 in
- **Weight**: 37 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 10" woofer, 5" convex midrange, 2" polyaxial tweeter
- **Response**: 36 Hz to 18 kHz re 91 dB SPL at 1 meter
- **Crossover**: 900 Hz, 4.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11.75 dBW)
- **Max. power**: 60 watts (11.75 dBW)
- **Features**: Handcrafted

**Gamma Gold 2006M**

- **Price**: $129
- **Dimensions**: 13 1/4 x 18 1/4 x 9 3/4 in
- **Weight**: 17 lbs. 8 oz.
- **Type**: Bass port
- **Drivers**: 6 1/4" woofer; dome tweeter
- **Response**: 40 Hz to 20 kHz, ±4 dB re 91 dB
- **SPL at 1 meter**: 1 watt
- **Crossover**: 1.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 75 watts (18.75 dBW)
- **Features**: Tweeter

**Gamma 204X**

- **Price**: $99

---

**MATRECS**

**Matrecs Industries**

**805 Woodman Ave.**

**Winslow, Ill. 61089**

**Models also available**


---

**McINTOSH**

McIntosh Loudspeaker Division

2 Chambers St.

Binghamton, N.Y. 13903

**XR-7**

- **Price**: $1,099
- **Dimensions**: 40 x 19 x 6 in
- **Weight**: 118 lbs.
- **Type**: Acoustic suspension
- **Drivers**: Two 12" woofers; 8" lower midrange; two 1 1/2" dome midranges; four 2 1/4" coaxial super tweeters
- **Response**: 20 Hz to 20 kHz
- **Crossover**: 250 Hz; 1.4 kHz; 7 kHz
- **Impedance**: 8 ohms
- **Min. power**: 30 watts (14.75 dBW)
- **Max. power**: 300 watts (24.5 dBW)
- **Features**: McIntosh environmental equalizer may be used

**XR-6**

- **Price**: $749
- **Dimensions**: 35 x 13 x 16 in
- **Weight**: 81 lbs.
- **Type**: Acoustic suspension
- **Drivers**: Two 12" woofers; 8" lower midrange; two 1 1/2" dome midranges; 1" dome tweeter
- **Response**: 20 Hz to 20 kHz
- **Crossover**: 250 Hz; 1.4 kHz; 7 kHz
- **Impedance**: 8 ohms
- **Min. power**: 30 watts (14.75 dBW)
- **Max. power**: 200 watts (23 dBW)
- **Features**: McIntosh environmental equalizer may be used

**ML-10C**

- **Price**: $319
- **Dimensions**: 25 x 12 13/16 x 12 in
- **Weight**: 47 lbs.
- **Type**: Acoustic suspension
- **Drivers**: Two 10" woofers; 11/2" dome midrange; coaxial super tweeter
- **Response**: 20 Hz to 20 kHz; 85 dB SPL at 1 meter
- **Crossover**: 1 kHz; 7 kHz
- **Impedance**: 8 ohms
- **Min. power**: 20 watts (13 dBW)
- **Max. power**: 100 watts (20 dBW)
- **Features**: McIntosh environmental equalizer may be used

**Models also available**

- XR-5, $599; XR-3, $425

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**MCS® SERIES**

J.C. Penney

1301 Ave. of the Americas

New York, N.Y. 10019

**8228**

- **Price**: $400
- **Dimensions**: 36 1/2 x 16 x 10 1/2 in
- **Weight**: 100 lbs.
- **Type**: 12" woofer, two 2" soft-dome midranges; 1" soft-dome tweeter
- **Drivers**: Air suspension
- **Crossover**: 600 Hz; 2 kHz
- **Impedance**: 8 ohms
- **Min. power**: 50 watts (17 dBW)
- **Max. power**: 150 watts (21.75 dBW)
- **Controls**: Mid/tweeter controls
- **Features**: Ferrite fluid cooled elements; built-in stand; removable grille

**Models also available**

- MA-165, $165.50; MA-124, $131.50

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**8226**

- **Price**: $200

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*High Fidelity's Buying Guide to Stereo Components*
### MITSUBISHI

**Melco Sales, Inc.**  
3030 E. Victoria St.  
Compton, Calif. 90221

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
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<tbody>
<tr>
<td>MS-40</td>
<td>$550</td>
<td>34½ H x 15¼ W x 14¼ D</td>
<td>77 lbs</td>
<td>Acoustic suspension</td>
<td>12&quot; honeycomb woofer; 4&quot; cone midrange; 1½&quot; semi-dome tweeter</td>
<td>600 Hz to 20 kHz; 87 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>30 watts (14.75 dBW)</td>
<td>150 watts (21.75 dBW)</td>
<td>Tweeter; midrange</td>
<td>Removable grille</td>
</tr>
</tbody>
</table>

**Monitor Mark IV**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$279.95</td>
<td>26 H x 15¼ W x 12¼ D</td>
<td>40 lbs</td>
<td>Vented</td>
<td>12&quot; bass driver, two 4½&quot; frame cone drivers; 3½&quot; phenolic ring tweeter</td>
<td>20 Hz to 20 kHz</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>65 watts (18 dBW)</td>
<td>Tweeter; midrange; grille</td>
<td>Overload protection circuit with LED indicator and mute function, mirror-image pair</td>
</tr>
</tbody>
</table>

**Monitor Mark II**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$209.95</td>
<td>23 H x 14 W x 10 D</td>
<td>29 lbs</td>
<td>Vented</td>
<td>10&quot; bass driver, 4½&quot; frame cone driver, 3½&quot; phenolic ring tweeter</td>
<td>20 Hz to 20 kHz</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>65 watts (18 dBW)</td>
<td>Tweeter; midrange; grille</td>
<td>Overload protection circuit with LED indicator and mute function, mirror-image pair</td>
</tr>
</tbody>
</table>

**FRM-1AX**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$225</td>
<td>25¼ H x 15¼ W x 12¼ D</td>
<td>40 lbs</td>
<td>Acoustic suspension</td>
<td>Five 1½&quot; drivers mounted in a Pent-a-Array assembly, one 10&quot; woofer with heavy-duty dynamic assembly</td>
<td>32 Hz to 18 kHz; ± 4 dB</td>
<td>8 ohms</td>
<td>18 watts (12.5 dBW) (at 8 ohms) continuous</td>
<td>70 watts (18.5 dBW) (at 8 ohms) continuous</td>
<td>Tweeter (adjusts center on-axis tweeters); dispersion control (adjusts four surrounding off-axis tweeters simultaneously)</td>
<td>Full 10-year warranty; tweeter protection circuit</td>
</tr>
</tbody>
</table>

**FRM-3AX**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$139.50</td>
<td>22½ H x 12¾ W x 9¼ D</td>
<td>24½ lbs</td>
<td>Vented</td>
<td>One 2½&quot; tweeter pivoted on var-axis dispersion assembly; one 8&quot; woofer operating into a twin-ducted port</td>
<td>45 Hz to 15 kHz; ± 4 dB</td>
<td>8 ohms</td>
<td>7 watts (8.5 dBW) (at 8 ohms) continuous</td>
<td>50 watts (17.5 dBW) (at 8 ohms) continuous</td>
<td>Tweeter</td>
<td>Full 10-year warranty; tweeter protection circuit</td>
</tr>
</tbody>
</table>

**MS-30**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$395</td>
<td>26¼ H x 15¼ W x 13¼ D</td>
<td>55 lbs</td>
<td>Acoustic suspension</td>
<td>12&quot; honeycomb-cone woofer; 4&quot; cone midrange; 1½&quot; tweeter</td>
<td>30 Hz to 20 kHz</td>
<td>6 ohms</td>
<td>30 watts (14.75 dBW)</td>
<td>150 watts (21.75 dBW)</td>
<td>Midrange; tweeter</td>
<td>Overload-protection circuit, edgeless cabinet and grille</td>
</tr>
</tbody>
</table>

**MS-10**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$165</td>
<td>22½ H x 12¾ W x 11¼ D</td>
<td>32 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; honeycomb-cone woofer; 2&quot; cone tweeter</td>
<td>38 Hz to 20 kHz</td>
<td>6 ohms</td>
<td>20 watts (13 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>Tweeter</td>
<td>Overload-protection circuit, edgeless cabinet and grille</td>
</tr>
</tbody>
</table>

**Models also available**  

**MS-26, $275**

**MONITOR**  

**General Audio Corp.**  
3504 Hillcroft  
Houston, Tex, 77027

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor M-1000</td>
<td>$500</td>
<td>57¼ H x 16 W x 13¼ D</td>
<td>65 lbs</td>
<td>Vented</td>
<td>Two 10&quot; bass drivers; two 4&quot; frame cone drivers; four 3½&quot; phenolic ring tweeters</td>
<td>20 Hz to 20 kHz</td>
<td>8 ohms</td>
<td>19 watts (19 dBW)</td>
<td>Tweeter</td>
<td>Acoustic suspension</td>
<td></td>
</tr>
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**Carnival Series 2**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$275.95</td>
<td>15¾ H x 9¼ W x 5¼ D</td>
<td>11 lbs</td>
<td>Dynamic</td>
<td>8&quot; midrange, 2¾&quot; paper-cone tweeter</td>
<td>85 Hz to 17 kHz; ± 3 dB</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>80 watts (19 dBW)</td>
<td>Tweeter</td>
<td>Walnut or teak wood finish; available with matching stands</td>
</tr>
</tbody>
</table>

**Pageant Series 2**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>$495/ pr</td>
<td>21 H x 13 W x 9 D</td>
<td>21 lbs</td>
<td>Bass reflex</td>
<td>Woofer-midrange, synthetic-dome tweeter</td>
<td>25 Hz; 25 kHz</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>Bass, treble</td>
<td>Overload-protection circuit, edgeless cabinet and grille</td>
</tr>
</tbody>
</table>

**Models also available**  

**MS-26, $275**

---

**Models also available**  

**FRM-2AX, $180**

---

**MORDAUNT-SHORT**  
Mordaunt-Short, Inc.  
1919 Middle Country Rd.  
Centereach, N.Y. 11720

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
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<tbody>
<tr>
<td>Signer</td>
<td>$1,480/pr</td>
<td>31½ H x 15¼ W x 13¼ D</td>
<td>64 lbs</td>
<td>Three-way reflex</td>
<td>20&quot; woofer; 5 2/5&quot; midrange, 1&quot; wide-dispersion synthetic-dome tweeter</td>
<td>38 Hz to 25 kHz; ± 2 dB</td>
<td>8 ohms</td>
<td>50 Hz to 5 kHz</td>
<td>500 Hz, 4 kHz</td>
<td>Tweeter</td>
<td>Overload-protection circuit, edgeless cabinet and grille</td>
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**MONITOR Mark III**  

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$239.95</td>
<td>23 H x 14 W x 10 D</td>
<td>29 lbs</td>
<td>Vented</td>
<td>10&quot; bass driver, 4½&quot; frame cone driver, 3½&quot; phenolic ring tweeter</td>
<td>1 kHz; 3.5 kHz</td>
<td>8 ohms</td>
<td>10 watts (10 dBW)</td>
<td>65 watts (18 dBW)</td>
<td>Tweeter; midrange; grille</td>
<td>Overload-protection circuit, edgeless cabinet and grille</td>
</tr>
</tbody>
</table>

**Models also available**  

**Monitor Mark III, $239.95**

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**MICRO-ACOUSTICS**  
Micro-Acoustics Corp.  
8 Westchester Plaza  
Elmsford, N.Y. 10523

<table>
<thead>
<tr>
<th>Features</th>
<th>Max. power</th>
<th>Min. power</th>
<th>Impedance</th>
<th>Crossover</th>
<th>Drivers</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls</td>
<td>60 watts (17.75 dBW)</td>
<td>10 watts (10 dBW)</td>
<td>8 ohms</td>
<td>600 Hz; 6 kHz</td>
<td>12&quot; cone tweeter</td>
<td>22&quot; H x 16 W x 13 D</td>
<td>$300</td>
</tr>
</tbody>
</table>

---

1980 Edition
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Crossover</th>
<th>Impedance</th>
<th>Min. Power</th>
<th>Max. Power</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nine</td>
<td>$470</td>
<td>45½H x 15⅞W x 15D</td>
<td>75 lbs</td>
<td>Acoustic suspension</td>
<td>Three 10&quot; woofers; three 1&quot; tweeters</td>
<td>35 Hz to 20 kHz, ±3 dB (1.5 kHz to 20 kHz, ±2 dB)</td>
<td>1.5 kHz</td>
<td>4 ohms</td>
<td>30 watts (14.75 dBW)</td>
<td>70 watts (18.5 dBW)</td>
<td>continuous</td>
<td>Tweeter; woofer</td>
</tr>
<tr>
<td>Ten</td>
<td>$310</td>
<td>37½H x 15W x 15D</td>
<td>60 lbs</td>
<td>Acoustic suspension</td>
<td>Two 10&quot; woofers; two 1&quot; tweeters</td>
<td>40 Hz to 20 kHz, ±3 dB (1.5 kHz to 20 kHz, ±2 dB)</td>
<td>1.5 kHz</td>
<td>4 ohms</td>
<td>30 watts (14.75 dBW)</td>
<td>70 watts (18.5 dBW)</td>
<td>continuous</td>
<td>Tweeter; magnetic damping fluid in tweeters</td>
</tr>
<tr>
<td>Eight</td>
<td>$140</td>
<td>23½H x 12W x 10D</td>
<td>28 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; woofer; 1&quot; tweeter</td>
<td>45 Hz to 20 kHz, ±4 dB (1.5 kHz to 20 kHz, ±2 dB)</td>
<td>1.5 kHz</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>35 watts (15.5 dBW)</td>
<td>continuous</td>
<td>Tweeter; acoustic protection circuit breaker; magnetic damping fluid in tweeters</td>
</tr>
<tr>
<td>L</td>
<td>$185</td>
<td>7½H x 6⅛W x 4⅛D</td>
<td>33 lbs</td>
<td>Dynamic</td>
<td>Vented</td>
<td>15 Hz to 100 Hz, ±3 dB</td>
<td>2.2 kHz</td>
<td>10K ohms</td>
<td>8 watts (9 dBW) for approx. 100 dB SPL at 3 ft</td>
<td>100 watts (20 dBW)</td>
<td>For approx. 100 dB</td>
<td>None</td>
</tr>
<tr>
<td>M</td>
<td>$140</td>
<td>7¼H x 6⅛W x 4⅛D</td>
<td>33 lbs</td>
<td>Dynamic</td>
<td>4&quot; woofer, 1&quot; dome tweeter</td>
<td>120 Hz to 20 kHz, ±4 dB re 90 dB SPL at 1 meter at 1 watt</td>
<td>3.5 kHz</td>
<td>8 ohms</td>
<td>5 watts (7.5 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>I</td>
<td>$675</td>
<td>31H x 15⅞W x 16D</td>
<td>76 lbs</td>
<td>Vented with subwoofer</td>
<td>12&quot; subwoofer; 8&quot; woofer; 2&quot; low tweeter; two 1&quot; dome tweeters</td>
<td>35 Hz to 19 kHz, ±3½ dB</td>
<td>100 Hz; 2 kHz; 10 kHz</td>
<td>10 watts (10 dBW)</td>
<td>1,000 watts (30 dBW)</td>
<td>Four (for each tweeter and for 8&quot; woofer)</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

**Festival Series 2, $385/pr.**

**NAGRA**

Nagra Magnetic Recorders, Inc.

19 W. 44th St.

New York, N.Y. 10036

---

**DSM**

Price: $1,297

Dimensions: 9¾H x 10⅞W x 5⅞D

Weight: 13 lbs. 14 oz

Type: Acoustic suspension

Drivers: Two cone

Response: 60 Hz to 15 kHz, ±3 dB

Crossover: 2 kHz

Impedance: 8 ohms

Features: Built-In amp

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**NEAL-FERROGRAPH**

Neal-Ferrograph

652 Glenbrook Road

Glenbrook, Conn. 06906

---

**S-23**

Price: $416

Dimensions: 17⅞H x 7½W x 11D

Weight: 19 lbs. 8 oz.

Type: Acoustic suspension with Internal labyrinth

Drivers: Two 4" long-throw roll surround; 1" soft dome

Response: 65 Hz to 20 kHz, ±4 dB re 90 dB SPL at 1 meter at 1 watt

Impedance: 6 ohms (nominal)

Min. power: 10 watts (10 dBW)

Max. power: 35 watts (15.5 dBW)

Features: Walnut or teak veneer; crossover allows one woofer to switch over to midrange

---

**NORDMENDE**

Sterling Hi-Fidelity, Inc.

22-20 40th Ave.

Long Island City, N.Y. 11101

---

**LB-26**

Price: $100/pr.

Dimensions: 9⅞H x 6W x 5D

Weight: 4 lbs

Type: Acoustic suspension with Internal labyrinth

Drivers: 5½" 1¼"

Response: 50 Hz to 20 kHz

Impedance: 4½ ohms

Min. power: 3 watts (4.75 dBW)

Max. power: 15 watts (11.75 dBW)

---

**LB-25**

Price: $30/pr.

Dimensions: 9⅞H x 6W x 5D

Weight: 3 lbs. 12 oz.

Type: Acoustic suspension with Internal labyrinth

Drivers: One 5½" 1¼"

Response: 50 Hz to 15 kHz

Crossover: 7½ kHz

Impedance: 4½ ohms

Min. power: 3 watts (4.75 dBW)

Max. power: 15 watts (11.75 dBW)

---

**NORMAN LABORATORIES**

Norman Laboratories, Inc.

2278 Industrial Blvd.

Norman, Okla. 73069

---

**OHM ACOUSTICS**

OHM Acoustics Corp.

241 Taaffe Place

Brooklyn, N.Y. 11205

---

**Ohm**

Price: $950

Dimensions: 4½H x 17¾W x 17¾D (bottom); 13W x 13D (top)

Weight: 80 lbs.

Type: Walnut; sealed system

Drivers: 12" Walsh driver

Response: 35 Hz to 19 kHz, ±4 dB re 90 dB SPL

Impedance: 4 ohms

Min. power: 56 watts (17.5 dBW)

Max. power: 150 watts (21.75 dBW) continuous above 1 kHz

Features: Protective fused; 10 lbs. 4 oz. magnetic structures, 3" voice coil

---

**R.W. OLIVER**

R.W. Oliver Electronics, Ltd.

580 E. Dobbie Ave.

Winnipeg, Manitoba R3K 1G4

---

**Thor-11 Center-Channel**

Subwoofer

Price: $895 (dependent on finish)

Dimensions: 18H x 10W x 24D

Weight: 112 lbs.

Type: Self-powered motional feedback subwoofer

Drivers: Two 12" high-power long-throw subwoofers

Response: 15 Hz to 100 Hz, ±3 dB

Crossover: 50 to 100 Hz (variable)

Impedance: 10K ohms

Max. power: 120 dB SPL (acoustic power)

Controls: Continuously variable bandwidth (low frequency, 15 to 50 Hz; high frequency, 50 to 100 Hz) sensitivity control; limiter on/off
Features integral amplification with motional feedback and limiting; summing amplifier combines left and right channels; selection of inlaid stone tops

**Model 3**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$400</td>
</tr>
<tr>
<td>Dimensions</td>
<td>30H x 13W x 10D</td>
</tr>
<tr>
<td>Weight</td>
<td>42 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Tuned ducted port</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two high-power 10&quot; woofers; one 2&quot; x 6&quot; horn tweeter</td>
</tr>
<tr>
<td>Crossover</td>
<td>3.5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (22 dBW)</td>
</tr>
<tr>
<td>Features</td>
<td>Tailored response for disco and PA application; protective metal mesh under foam grille; compact</td>
</tr>
</tbody>
</table>

**Models also available**

Model 7 Speaker, $280

**OLSON**

Olson Electronics

260 S. Forge

Akron, Ohio 44327

**FR-3**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$400</td>
</tr>
<tr>
<td>Dimensions</td>
<td>27H x 18W x 12D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer; 3&quot; upper midrange; 5&quot; midrange; 1&quot; extended tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>32 Hz to 22.5 kHz, ±2 1/2 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>600 Hz; 4 kHz, 7.8 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>6.1 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; high range; direct/reflecting adjusts</td>
</tr>
<tr>
<td>Features</td>
<td>Velocity labyrinth</td>
</tr>
</tbody>
</table>

**SP-580 Pedestal Tower II**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$349.98</td>
</tr>
<tr>
<td>Dimensions</td>
<td>38H x 13 1/2W x 13 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>60 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 8&quot; woofers; two 5&quot; midranges; two 2 1/4&quot; tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 22 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.5 kHz; 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>6 watts (7.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>L-pad midrange and tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Both tweeters have silicone-cooled voice coils</td>
</tr>
</tbody>
</table>

**SP-579 “Acoust Aire IV”**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$169.98</td>
</tr>
<tr>
<td>Dimensions</td>
<td>22 1/8 H x 13 1/2W x 10 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>38 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer; 5&quot; midrange; 2 1/4&quot; tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 22 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>2.2 kHz; 6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 watts</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts</td>
</tr>
<tr>
<td>Max. power</td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>L-pad midrange and tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>LC crossover</td>
</tr>
</tbody>
</table>

**Models also available**

SP-585 “Acoust Aire IV”, $219.98

**ONKYO**

Onkyo U.S.A. Corp.

42-07 20th Ave.

Long Island City, N.Y. 11105

**240**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Price</td>
<td>$250</td>
</tr>
<tr>
<td>Dimensions</td>
<td>27H x 16 1/2W x 13D</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>15&quot; woofer; 4&quot; carbon-fiber midrange driver; 1&quot; titanium dome tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 20 kHz, ±5 dB re 93 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>700 Hz; 4.5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW) continuous</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
</tbody>
</table>

**160**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$165</td>
</tr>
<tr>
<td>Dimensions</td>
<td>22H x 13 1/2W x 12 1/4D</td>
</tr>
<tr>
<td>Weight</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer; 2 1/2&quot; cone tweeter with duralumin center cap</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz, ±5 dB re 91 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>2 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>80 watts (19 dBW) continuous</td>
</tr>
<tr>
<td>Controls</td>
<td>Tweeter</td>
</tr>
</tbody>
</table>

**OPTONICA**

Sharp Electronics Corp.

10 Keystone Place

Paramus, N.J. 07652

**CP-5151**

<table>
<thead>
<tr>
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<th>Specifications</th>
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<tbody>
<tr>
<td>Price</td>
<td>$400</td>
</tr>
<tr>
<td>Dimensions</td>
<td>28H x 16W x 13 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>61 lbs. 8 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; woofer; 2&quot; dome midrange; horn-loaded ribbon tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 50 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>500 Hz; 6 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>90 watts (19.5 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange; tweeter</td>
</tr>
<tr>
<td>Features</td>
<td>Crossover has switchable 30 kHz filter; speaker may be triamplified</td>
</tr>
</tbody>
</table>

**CP-2121**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$210</td>
</tr>
<tr>
<td>Dimensions</td>
<td>28H x 14 1/2W x 12 1/4D</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Passive radiator</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; woofer; 3&quot; cone tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 20 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>1.2 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>50 watts (17 dBW)</td>
</tr>
</tbody>
</table>

**PEDERSON ACOUSTICS**

Pederson Acoustics

Box 47

Chestnut Hill, Mass. 02167

**HF-2**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$7,500/pr.</td>
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<tr>
<td>Dimensions</td>
<td>48H x 32W x 26D</td>
</tr>
<tr>
<td>Weight</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Direct radiator/folded horn</td>
</tr>
<tr>
<td>Drivers</td>
<td>Three dynamic (optional ribbon tweeter)</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>200 Hz; 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>25 watts (14 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>250 watts (24 dBW)</td>
</tr>
</tbody>
</table>

**PETROFF LABS**

Petroff Labs

11436 Victoria Ave.

Los Angeles, Calif. 90066

**PL-6D Dipole Panel**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$500/pr.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>42H x 12W x 4 1/2D</td>
</tr>
<tr>
<td>Weight</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Dipole radiating line-source in boxless configuration</td>
</tr>
<tr>
<td>Model</td>
<td>Type</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>RH-544</td>
<td></td>
</tr>
<tr>
<td>AH-476</td>
<td></td>
</tr>
<tr>
<td>SJ-2932</td>
<td></td>
</tr>
<tr>
<td>SJ-931</td>
<td></td>
</tr>
<tr>
<td>Models also available</td>
<td></td>
</tr>
</tbody>
</table>

**PHILIPS**

Philips High Fidelity Laboratories, Ltd.
P.O. Box 2208
Fort Wayne, Ind. 46801

**RH-545**

Price: $1,500
Dimensions: 25½"H x 17W x 12½"D

**PHILIPS**

Philips High Fidelity Laboratories, Ltd.
P.O. Box 2208
Fort Wayne, Ind. 46801

**RH-545**

Price: $1,500
Dimensions: 25½"H x 17W x 12½"D

**Models also available**

- RH-567, $450; AH-477, $300; RH-541, $250; AH-475, $150; SJ-2930, $150/pr
<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Response</th>
<th>Impedance</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>57 ½ x 24 1/2 W x 20 D</td>
<td>50 lbs.</td>
<td>Passive</td>
<td>Plasma, cone midrange; cone bass</td>
<td>18 Hz to 30 kHz, +3 dB re 107 dB SPL at 1 meter from one plasma driver</td>
<td>8 ohms</td>
<td>Plasma level; crossover point</td>
<td>Bumped with high amp crossover; VU meters; hi-lo balancing network</td>
</tr>
<tr>
<td>46 ½ x 15 W x 12 (stand, 12 H)</td>
<td>75 lbs.</td>
<td>Passive</td>
<td>Two 6 ½&quot; bass/midranges; 12&quot; molded foam passive radiator, 1&quot; vented HF radiator</td>
<td>28 Hz to 21 kHz, +2 dB re 96 dB SPL at 1 meter at 1 watt</td>
<td>6 ohms</td>
<td>10 watts (10 dBW)</td>
<td>Plasticized drivers; optional stand</td>
</tr>
<tr>
<td>39 x 29 x 16 H</td>
<td>125 lbs. ea.</td>
<td>Transmission line</td>
<td>8&quot; woofer, 5&quot; midrange; 1&quot; dome tweeter</td>
<td>40 Hz to 20 kHz, +2 dB re 88 dB SPL at one 1 meter at 1</td>
<td>8 ohms</td>
<td>25 watts (14 dBW)</td>
<td>Phase and time aligned; minimized diffraction areas</td>
</tr>
<tr>
<td>39 x 29 x 16 H</td>
<td>125 lbs. ea.</td>
<td>Transmission line</td>
<td>8&quot; woofer, 1 ½&quot; dome tweeter</td>
<td>600 Hz, 3.5 kHz</td>
<td>8 ohms</td>
<td>100 watts (20 dBW)</td>
<td>Tweeter, &quot;bass-boost&quot; switch to increase upper bass-midrange output by 4.5 dB</td>
</tr>
<tr>
<td>284 x 16 x 11 ½ D</td>
<td>50 lbs.</td>
<td>Passive</td>
<td>Two 6 ½&quot; midrange drivers with 10&quot; passive radiator, 1&quot; vented dome tweeter</td>
<td>30 Hz to 20.5 kHz, +2 dB re 96 dB SPL at 1 meter at 1 watt</td>
<td>6 ohms</td>
<td>10 watts (10 dBW)</td>
<td>Plasticized drivers</td>
</tr>
<tr>
<td>21 ½ x 10 ½ W x 8 ¼ D</td>
<td>29 lbs.</td>
<td>Passive</td>
<td>6½&quot; midrange with 8&quot; passive radiator, 1&quot; dome tweeter</td>
<td>40 Hz to 21 kHz, +3 dB re 92 dB at 1 watt at 1 meter</td>
<td>8 ohms</td>
<td>10 watts (10 DBW)</td>
<td>Same as Model 10A</td>
</tr>
<tr>
<td>21 ½ x 10 ½ W x 8 ¼ D</td>
<td>124 lbs.</td>
<td>Passive</td>
<td>One 8&quot; woofer; one 2½&quot; midrange; one 1&quot; tweeter</td>
<td>40 Hz to 20 kHz, +2½ dB re 92 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>200 watts (23 dBW)</td>
<td>Extremely efficient and superb polar response due to unique cylinder design; high-power handling</td>
</tr>
<tr>
<td>26 x 15 W x 15 ½ D</td>
<td>600 lbs.</td>
<td>Dynamic</td>
<td>One 8&quot; woofer, one 2½&quot; midrange; 1&quot; dome tweeter</td>
<td>50 Hz to 20 kHz, +3 dB re 90 dB SPL at 1 meter at 1 watt</td>
<td>8 ohms</td>
<td>10 watts (10 DBW)</td>
<td>Models also available MZ-Mod II, $747.50/pr.</td>
</tr>
</tbody>
</table>
### Avanté Ila Walnut

**Price** $170 (walnut); $145 (vinyl)

**Dimensions** 19 ½H x 11W x 10D

**Weight** 25 lbs.

**Type** Bass reflex

**Drivers** 1" textile dome tweeter; 8" woofer

**Response** 60 Hz to 20 kHz, ±2 dB

**Crossover** 1 kHz

**Impedance** 8 ohms

**Min. power** 25 watts (14 dBW)

**Max. power** 50 watts (17 dBW)

**Features** Real walnut veneer

**Models also available** Passif I, $230 (walnut); $195 (vinyl); Avantini II, $100

---

### PYRAMID

**Pyramid Loudspeaker Corp.**

131-15 Fowler Ave.

Flushing, N.Y. 11355

---

### Metronome 3

**Price** $1,700

**Dimensions** 34H x 21 ¾W x 15¼D

**Weight** 100 lbs.

**Type** Acoustic suspension

**Drivers** Two 8" woofers; 4½" midrange, 3" by 0.5" ribbon tweeter

**Response** 35 Hz to 35 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt

**Impedance** 6 ohms

**Min. power** 75 watts (18.75 dBW)

**Max. power** 300 watts (24.75 dBW)

**Controls** Switched high-range contour; ±2 dB, flat, and "Far Field Curve"

**Features** Blimpable with switch; requires no external crossover

---

### TAD II

**Price** $225

**Dimensions** 29H x 9W x 6½D

**Weight** 25 lbs.

**Type** Critical Alignment, Laminar flow vent

**Drivers** Two 6" woofers; 2" tweeter, 2" polar tweeter

**Response** 40 Hz to 25 kHz, ±3 dB re 90 dB SPL at 1 meter at 1 watt

**Crossover** 2 kHz; 8 kHz

**Impedance** 6 ohms

**Min. power** 15 watts (11.75 dBW)

**Max. power** 120 watts (20.75 dBW)

**Controls** Tweeter

**Features** Hardwood stand included

---

### Micro

**Price** $99

**Dimensions** 11H x 4½W x 3½D

**Weight** 6 lbs.

**Type** Critical Alignment, terminated line

**Drivers** Two 3" woofers; 2" tweeter

**Response** 80 Hz to 18 kHz, ±3 dB re 79 dB SPL at 1 meter at 1 watt

**Crossover** 3 kHz

**Impedance** 6 ohms

**Min. power** 8 watts (9 dBW)

**Max. power** 60 watts (17.75 dBW)

---

### REALISTIC

**Radio Shack**

2617 W. 7th St.

Ft. Worth, Texas 76107

---

### Optimus 23

**Price** $99.95

**Dimensions** 22 ¼H x 12 ¼W x ½D

**Weight** 30 lbs. 3 oz.

**Type** Ported suspension

**Drivers** 10" woofer; one 3" tweeter

**Response** 20 Hz to 20 kHz; ±4.5 dB

**Crossover** 1.2 kHz

**Impedance** 8 ohms

**Min. power** 7 watts (8.5 dBW)

**Max. power** 70 watts (18.5 dBW)

**Features** Tweeter

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### Reference

**CBS Retail Stores**

1301 65th St.

Emeryville, Calif. 94608

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### 312L

**Price** $269.95

**Dimensions** 31 ¼H x 18W x 13D

**Weight** 48 lbs.

**Type** Acoustic suspension

**Drivers** 12" woofer; 6½" cone midrange; 1" soft-dome tweeter

**Response** 32 Hz to 22 kHz; ±4 dB

**Crossover** 600 Hz; 4 kHz

**Impedance** 8 ohms

**Min. power** 10 watts (10 dBW)

**Features** Same as Model 208L

---

### T-1 Ribbon Tweeter

**Price** $1,175/pr.

**Dimensions** 4½H x 4¼W x 7¼D

**Weight** 8½ lbs.

**Type** Ribbon

**Drivers** 3¼" x ¼" ribbon

**Response** 3 kHz to 40 kHz, ±3 dB re 93 dB SPL at 1 meter at 1 watt

**Crossover** 3 kHz

**Impedance** 12 ohms at 20 kHz

**Min. power** 10 watts (10 dBW)

**Max. power** 200 watts (23 dBW)

**Controls** Five-position step attenuator, 2 dB/step, 8 dB total

---

### QYSONIC

**Qysonic Research Corp.**

920 S. Placentia Ave.

Placentia, Calif. 92670

---

### Mach One

**Price** $239.95

**Dimensions** 28½H x 17¼W x 12D

**Weight** 65 lbs.

**Type** Acoustic suspension

**Drivers** 15" woofer; midrange, horn tweeter

**Response** 20 Hz to 25 kHz

**Crossover** 1 kHz; 5 kHz

**Impedance** 8 ohms

**Min. power** 25 watts (14 dBW)

**Max. power** 100 watts (20 dBW) peak

**Features** Midrange; tweeter

---

### Optimus 2W Subwoofer

**Price** $1,600/pr.

**Dimensions** 25¾H x 27½W x 16½D (truncated)

**Weight** 115 lbs.

**Type** Acoustic suspension

**Drivers** 14"

**Response** 29 Hz to 90 Hz, ±3 dB re 87 dB SPL at 1 meter at 1 watt

**Crossover** 90 Hz

**Impedance** 8 ohms

**Min. power** 200 watts (23 dBW)

**Max. power** 800 watts (29 dBW)

**Controls** None

**Features** 2W available only with Metronome 2

---

### Optimus T-200

**Price** $259.95

**Dimensions** 34H x 12¾W x 12½D

**Drivers** Two 10" woofers; 6½" midrange; two cone tweeters with horn assembly

**Response** 50 Hz to 20 kHz

**Impedance** 8 ohms

**Max. power** 150 watts

**Controls** 2 L-pads for treble and midrange

**Features** Tower design

---

### Minimus 7

**Price** $50

**Dimensions** 7H x 4½W x 4¾D

**Weight** 4 lbs. 8 oz.

**Type** Acoustic suspension

**Drivers** 4" high-compliance woofer; 1" extended range high-compliance dome tweeter

**Response** 50 Hz to 20 kHz; ±5 dB

**Crossover** 2.5 kHz

**Impedance** 8 ohms

**Min. power** 7 watts (8.5 dBW)

**Max. power** 40 watts (16 dBW) continuous

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### Models also available

Optimus T-100, $179.95; Optimus 27, $149.95; Optimus 10, $140

---

### Array

**Price** $479

**Dimensions** 47¾H x 12½W x 8½D

**Weight** 55 lbs.

**Type** Critical Alignment, Laminar flow vent

**Drivers** Two 8" woofers; 4½" midrange; 2" tweeter; 1" (polar) dome super-tweeter

**Response** 28 Hz to 22 kHz, ±3 dB re 92 dB SPL at 1 meter at 1 watt

**Crossover** 800 Hz; 3 kHz; 8 kHz

**Impedance** 6 ohms

**Min. power** 30 watts (14.75 dBW)

**Max. power** 500 watts (27 dBW)

**Controls** Midrange; tweeter; polar super-tweeter

**Features** Hardwood stand included

---

### Models also available

**Optimus T-100**

**Price** $239.95

**Dimensions** 28½H x 17¼W x 12D

**Weight** 65 lbs.

**Type** Acoustic suspension

**Drivers** 15" woofer; midrange, horn tweeter

**Response** 20 Hz to 25 kHz

**Crossover** 1 kHz; 5 kHz

**Impedance** 8 ohms

**Min. power** 25 watts (14 dBW)

**Max. power** 100 watts (20 dBW) peak

**Features** Midrange; tweeter

---

**Models also available**

228L, $129.95

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**High Fidelity's Buying Guide to Stereo Components**

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<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Crossover</th>
<th>Impedance</th>
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<th>Max. power</th>
<th>Controls</th>
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<tr>
<td>YA-100/L-35B Reference Monitor System</td>
<td>$2,300</td>
<td>32½H x 16½W x 18D</td>
<td>78 lbs.</td>
<td>Acoustic suspension</td>
<td>12” woofer in each cabinet</td>
<td>20 Hz to 150 Hz, ±3 dB re 96 dB for woofer; 45 Hz to 20 kHz, ±2 dB for L-35B</td>
<td>8 ohms</td>
<td>50 watts (17 dBW)</td>
<td>100 watts (20 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compact Monitor</td>
<td>$830/pr.</td>
<td>20H x 11W x 10¼D</td>
<td>25 lbs.</td>
<td>Acoustic suspension</td>
<td>8” Bextrene woofer; 1” fabric dome tweeter</td>
<td>50 Hz to 20 kHz, ±3 dB re 96 dB for woofer; 45 Hz to 20 kHz, ±2 dB for L-35B</td>
<td>8 ohms</td>
<td>20 watts (13 dBW)</td>
<td>100 watts (19 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LS 3/5a BBC Monitor</td>
<td>$540/pr.</td>
<td>12H x 7½W x 6¼D</td>
<td>11 lbs.</td>
<td>Acoustic suspension</td>
<td>4½” Bextrene bass/midrange; 1½” dome tweeter</td>
<td>70 Hz to 20 kHz, ±3 dB re 96 dB for woofer; 45 Hz to 20 kHz, ±2 dB for L-35B</td>
<td>15 ohms</td>
<td>25 watts (14 dBW)</td>
<td>25 watts (14 dBW)</td>
<td></td>
<td>Designed by BBC</td>
</tr>
<tr>
<td>RTR DR-1</td>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
<td>Controls</td>
<td>Tweeter; woofer</td>
<td>Features</td>
<td>Circuit breaker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS/1</td>
<td>$325</td>
<td>21½H x 5W x 12½W</td>
<td>23 lbs.</td>
<td>Acoustic suspension</td>
<td>8” woofer; 1½” soft-dome midrange; 1” soft-dome tweeter</td>
<td>65 Hz to 20 kHz, ±2 dB re 90.5 dB for woofer; 1.5 kHz; 9 kHz</td>
<td>6 ohms</td>
<td>25 watts (14 dBW)</td>
<td>100 watts (20 dBW)</td>
<td>Controls: Tweeter; high-pass filter defeat</td>
<td>Features: Satellite speaker system; use independently or with DAC/1 subwoofer; pyramid shape</td>
</tr>
<tr>
<td>ESR-6</td>
<td>$250</td>
<td>14½H x 1½W x 1½D</td>
<td>23 lbs.</td>
<td>Electrostatic tweeter array</td>
<td>Six 3” x 6” HF-50 electrostatic panels</td>
<td>1.5 kHz to 20 kHz, ±2 dB</td>
<td>8 ohms</td>
<td>15 watts (11.75 dBW)</td>
<td>60 watts (17.75 dBW)</td>
<td>Controls: Tweeter; woofer; tweeter level (continuously variable)</td>
<td>Features: Same as G-200</td>
</tr>
<tr>
<td>G-10</td>
<td>$190</td>
<td>25½H x 1¼W x 1½D</td>
<td>44 lbs.</td>
<td>Ventied</td>
<td>Drivers</td>
<td>20 Hz to 20 kHz, ±2 dB re 91 dB for woofer; 1½ kHz; 9 kHz</td>
<td>6 ohms</td>
<td>10 watts (10 dBW)</td>
<td>80 watts (19 dBW)</td>
<td>Controls: Tweeter level (continuously variable)</td>
<td>Features: Same as G-200</td>
</tr>
<tr>
<td>Models also available</td>
<td>Monitor 2, $640</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

ROGERS
Reference Monitor
International, Inc.
2380 C Camino Vida Roble
Carlsbad, Calif. 92008

XA-100/L-35B Reference Monitor System

Compact Monitor

LS 3/5a BBC Monitor

RTR
RTR Industries, Inc.
8116 Deering Ave.
Canoga Park, Calif. 91304

1980 Edition
### SP-L800

- **Price**: $950
- **Dimensions**: 37 15/16 H x 18 W x 15 7/16 D
- **Weight**: 94 lbs. 6 oz.
- **Type**: Bass reflex
- **Drivers**: Two 12" cone woofers; 2 3/4" horn tweeter
- **Response**: 60 Hz to 20 kHz
- **Impedance**: 8 ohms
- **Max. power**: 300 watts (24.75 dBW)
- **Features**: Biamp connections; walnut grain vinyl finish; dual-woofer linear-response system

### J-11

- **Price**: $290/pr.
- **Dimensions**: 11 13/16 H x 4 13/16 W x 5 3/16 C
- **Weight**: 6 lbs. 6 oz.
- **Type**: Bass reflex
- **Drivers**: 4" cone woofer; 1" dome tweeter; 4" concave passive radiator
- **Response**: 45 Hz to 20 kHz, 85 dB SPL at one meter at one watt
- **Crossover**: 2.5 kHz
- **Impedance**: 8 ohms
- **Max. power**: 60 watts (17.75 dBW)
- **Features**: Same as SPA-3100

### SP-X9700

- **Price**: $390
- **Dimensions**: 27 1/16 H x 18 1/8 W x 10 5/8 D
- **Weight**: 44 lbs. 13 oz.
- **Type**: Bass reflex
- **Drivers**: 17" cone woofer; 8 3/16" cone midrange; 2 5/16" cone horn tweeters; three 15/16" cone superwoofers
- **Response**: 22 Hz to 23 kHz, 100 dB SPL at 1 meter at one watt
- **Crossover**: 1 kHz; 7 kHz; 15 kHz
- **Impedance**: 8 ohms
- **Max. power**: 280 watts (24.5 dBW)
- **Controls**: Midrange; tweeter; superwoofers (three-step level controller)
- **Features**: Genuine carved wood grille; walnut grain vinyl finish; particle board enclosure

### SP-X7700

- **Price**: $500
- **Dimensions**: 26 1/4 H x 17 1/16 W x 11 1/4 D
- **Weight**: 37 lbs. 10 oz.
- **Type**: Bass reflex
- **Drivers**: 16" woofer; 4" cone midrange; 6 1/16 x 2 1/2" horn tweeter; two 2 3/4" cone superwoofers
- **Response**: 35 Hz to 22 kHz, 97 dB SPL at 1 meter at one watt
- **Crossover**: 800 Hz; 2.5 kHz
- **Impedance**: 8 ohms
- **Max. power**: 160 watts (22 dBW)
- **Controls**: Tweeter
- **Features**: Genuine carved wood grille; walnut grain vinyl finish

### SPA-3100

- **Price**: $200
- **Dimensions**: 24 13/16 H x 15 13/16 W x 12 D
- **Weight**: 38 lbs. 8 oz.
- **Type**: Acoustic suspension
- **Drivers**: 12" cone woofer; 5 1/2" cone midrange; 2" x 5" oval piezoelectric tweeter
- **Response**: 35 Hz to 22 kHz
- **Crossover**: 800 Hz; 2.5 kHz
- **Impedance**: 8 ohms
- **Max. power**: 85 watts (19.25 dBW)
- **Controls**: Midrange; tweeter
- **Features**: Circuit breaker; walnut grain vinyl finish; acoustically transparent black double knot grille

### SPA-1100

- **Price**: $100
- **Dimensions**: 22 13/16 H x 13 3/16 W x 11 1/4 D
- **Weight**: 24 lbs. 12 oz.
- **Type**: Acoustic suspension
- **Drivers**: 10" cone woofer; 2" x 5" oval piezoelectric tweeter
- **Response**: 45 Hz to 22 kHz
- **Crossover**: 2.5 kHz

### S196W

- **Price**: $280
- **Dimensions**: 25 1/4 H x 15 W x 10 1/4 D
- **Weight**: 42 lbs.
- **Type**: Air suspension
- **Drivers**: 12" woofer; 4 1/2" midrange; 1" dome tweeter
- **Response**: 30 Hz to 20 kHz, +4 dB re 96 dB SPL at 1 meter at one watt
- **Crossover**: 800 Hz; 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 15 watts (1.75 dBW)
- **Max. power**: 120 watts (20.75 dBW)
- **Features**: Midrange; tweeter
- **Models also available**: SPA-L700, S880, SPA-X8700, $335; SPA-X6700, $235, SPA-2100, $150; J-33, $450/pr

### S188T

- **Price**: $230
- **Dimensions**: 33 1/4 H x 13 W x 10 1/4 D
- **Weight**: 57 lbs.
- **Type**: Air suspension
- **Drivers**: 10" woofer; 4 1/2" midrange; 1" dome tweeter
- **Response**: 38 Hz to 20 kHz, +4 dB re 95.4 dB SPL at 1 meter at one watt
- **Crossover**: 900 Hz; 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 10 watts (10 dBW)
- **Max. power**: 100 watts (20 DBW)
- **Features**: Midrange; tweeter
- **Models also available**: Tower design; extra long voice coil

### S177B

- **Price**: $120
- **Dimensions**: 19 H x 11 W x 9 D
- **Weight**: 45 lbs.
- **Type**: Air suspension
- **Drivers**: 8" woofer; 5" midrange, 1 1/4" tweeter
- **Response**: 50 Hz to 18 kHz, +4 dB re 94 dB SPL at 1 meter at one watt
- **Crossover**: 1200 Hz; 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 7 watts (8.5 dBW)
- **Max. power**: 70 watts (18.5 dBW)
- **Features**: High compliance woofer with butyl rubber annulus; phenolic ring tweeter

### S176B

- **Price**: $80
- **Dimensions**: 18 H x 10 1/2 W x 8 1/2 D
- **Weight**: 41 lbs.
- **Type**: Bass reflex with tuned port
- **Drivers**: 8" woofer; 1 1/4" tweeter
- **Response**: 60 Hz to 18 kHz, +4 dB re 93.5 dB SPL at one meter at one watt
- **Crossover**: 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 5 watts (7 dBW)
- **Max. power**: 60 watts (17.75 dBW)
- **Features**: High compliance woofer with butyl rubber annulus; phenolic ring tweeter

### Models also available

- **S197B**, $280; **S196B**, $250; **S186B**, $200, **166B**, $120

### S186T

- **Price**: $230
- **Dimensions**: 34 1/4 H x 13 W x 10 1/4 D
- **Weight**: 67 lbs.
- **Type**: Air suspension
- **Drivers**: 10" woofer, 4 1/2" midrange; 1" dome tweeter
- **Response**: 38 Hz to 20 kHz, +4 dB re 95.4 dB SPL at 1 meter at one watt
- **Crossover**: 900 Hz; 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 10 watts (10 dBW)
- **Max. power**: 100 watts (20 DBW)
- **Features**: Midrange; tweeter
- **Models also available**: Tower design; extra long voice coil

### SCOTT

- **Price**: $550
- **Dimensions**: 24 H x 13 1/4 W x 11 1/4 D
- **Weight**: 48 lbs.
- **Type**: Acoustic suspension
- **Drivers**: 10" woofer; 1" convex tweeter
- **Response**: 35 Hz to 18 kHz, +2.5 dB SPL at 90 dB SPL at one meter at one watt
- **Crossover**: 1.0 ohms
- **Controls**: None

### Models also available

- **30A**, $350; **22, $250**

### S196W

- **Price**: $280
- **Dimensions**: 25 1/4 H x 15 W x 10 1/4 D
- **Weight**: 42 lbs.
- **Type**: Air suspension
- **Drivers**: 12" woofer; 4 1/2" midrange; 1" dome tweeter
- **Response**: 30 Hz to 20 kHz, +4 dB re 96 dB SPL at 1 meter at one watt
- **Crossover**: 800 Hz; 3.5 kHz
- **Impedance**: 6 to 8 ohms
- **Min. power**: 15 watts (1.75 dBW)
- **Max. power**: 120 watts (20.75 dBW)
- **Features**: Midrange; tweeter
- **Models also available**: SPA-L700, S880, SPA-X8700, $335; SPA-X6700, $235, SPA-2100, $150; J-33, $450/pr

### SHAHINIAN

- **Price**: $400 walnut; $500 rosewood
- **Weight**: 50 lbs.
- **Type**: Hybrid transmission line with passive radiator

### Models also available

- **S197B**, $280; **S196B**, $250; **S186B**, $200, **166B**, $120

### SHAHINIAN

- **Price**: $400 walnut; oak (teak, $450; rosewood, $500)
- **Dimensions**: 26 1/4 H x 14 W x 12 D
- **Weight**: 50 lbs.
- **Type**: Hybrid transmission line with passive radiator

### Oblisik
SHOWCO
Showco Manufacturing Corp.
1225 Round Table Drive
Dallas, Texas 75247

1914
11 Er lit
Tower
Temple City, Calif. 91780

Features
Min. power
Max. power
Dimensions
Price

Type A
Newburyport, Mass. 01950
Snell Acoustics

Models also available

Features

Dimensions
39kHz x 211/4W x 19D
Weight
135 lbs
Type
Racing-socket port bass reflex
Drivers
12" woofer; two compression drivers
Response
30 Hz to 20 kHz, +3 dB re 94 dB SPL at 1 meter at 1 watt
Crossover
1 kHz
Impedance
8 ohms
Min. power
10 watts (10 dBW)
Max. power
350 watts (25.5 dBW)
Controls
High-frequency section
Features
Biphasic dispersion system; set up for biamping

Fried Super Monitor System

Price
$2,000 (assembled); $800 (kit)
Dimensions
50H x 30W x 15D
Weight
140 lbs
Type
Transmission line and pressure release
Drivers
12" Bextreme woofer; 6" Bextreme midrange; 1" low-mass soft dome tweeter
Response
15 Hz to 20 kHz, +3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover
75 Hz, 3.5 kHz
Impedance
8 ohms
Min. power
50 watts (17 dBW)
Max. power
200 watts (23 dBW)
Features
Truncated pyramid satellite with pressure release; transmission-line subwoofers; passive crossover; biamp inputs provided

Fried T Subwoofer

Price
$700 (assembled); $360 (kit)
Dimensions
211/4H x 121/4W x 141/4D
Weight
88 lbs
Type
Transmission line
Drivers
10" high power Bextreme
Response
20 Hz to 200 Hz, +0 dB re 87 dB SPL at one meter at one watt
Crossover
100 Hz
Impedance
8 ohms
Min. power
25 watts (14 dBW)
Max. power
100 watts (20 dBW)
Features
Separate transmission lines for each channel; may be used with B/2, C, or other full-range speakers; passive crossover; biamp inputs provided

Fried "C" Mini Monitors

Price
$475 (assembled); $275 (kit)
Dimensions
131/4H x 101/4W x 9D
Weight
20 lbs
Type
Pressure release
Drivers
6" Bextreme bass/midrange; 1" low-mass soft dome tweeter
Response
50 Hz to 20 kHz, +3 dB re 92 dB SPL at one meter at one watt
Crossover
3.5 kHz
Impedance
8 ohms
Min. power
25 watts (14 dBW)
Max. power
100 watts (20 dBW)
Features
Truncated pyramid with pressure release; may be used alone or with T, D, or Super subwoofers

S.E.A.S. SERIES

Disco 47 Monster

Price
$354 (kit)
Dimensions
391/2H x 191/2W x 131/2D
Weight
46 lbs
Type
Dual ducted port
Drivers
Two 12" woofers; two 6" midranges; two 4" cone tweeters; horn super tweeter
Response
40 Hz to 20 kHz, +3 dB re 100 dB SPL at one meter at one watt
Crossover
1 kHz; 3 kHz; 8 kHz
Impedance
8 ohms
Min. power
10 watts (10 dBW)
Max. power
200 watts (23 dBW)
Features
Overload protection warning; lacquer ash enclosure; preassembled

SONIKIT
1173 65th St.
Oakland, Calif. 94608

DALESFORD EXPORT SERIES

312

Price
$125 (kit)
Dimensions
19H x 12W x 91/2D
Weight
90 lbs
Type
Acoustic suspension
Drivers
12" Bextreme woofer; 6" Bextreme midrange; 1" low-mass soft-dome Audax tweeter
Response
15 Hz to 20 kHz, +3 dB
Crossover
250 Hz, 3.5 kHz
Impedance
8 ohms
Min. power
25 watts (14 dBW)
Max. power
100 watts (20 dBW)
Features
Bituminous felt and long fiber wool damping; diffusion-free enclosure

208

Price
$195 (assembled); $125 (kit)
Dimensions
19H x 12W x 91/2D
Weight
24 lbs
Type
Acoustic suspension
Drivers
8" Bextreme woofer/midrange; 1" low-mass Audax tweeter
Response
55 Hz to 20 kHz, +3 dB
Crossover
15 Hz to 1 kHz
Impedance
8 ohms
Min. power
15 watts (11.5 dBW)
Max. power
50 watts (17 dBW)
Features
Bituminous felt and long fiber wool damping; diffusion-free enclosure

FRIED SERIES

Fried Super Monitor System

Price
$2,000 (assembled); $800 (kit)
Dimensions
50H x 30W x 15D
Weight
140 lbs
Type
Transmission line and pressure release
Drivers
12" Bextreme woofer; 6" Bextreme midrange; 1" low-mass soft dome tweeter
Response
15 Hz to 20 kHz, +3 dB re 92 dB SPL at 1 meter at 1 watt
Crossover
75 Hz, 3.5 kHz
Impedance
8 ohms
Min. power
50 watts (17 dBW)
Max. power
200 watts (23 dBW)
Features
Truncated pyramid satellite with pressure release; transmission-line subwoofers; passive crossover; biamp inputs provided

Fried T Subwoofer

Price
$700 (assembled); $360 (kit)
Dimensions
211/4H x 121/4W x 141/4D
Weight
88 lbs
Type
Transmission line
Drivers
10" high power Bextreme
Response
20 Hz to 200 Hz, +0 dB re 87 dB SPL at one meter at one watt
Crossover
100 Hz
Impedance
8 ohms
Min. power
25 watts (14 dBW)
Max. power
100 watts (20 dBW)
Features
Separate transmission lines for each channel; may be used with B/2, C, or other full-range speakers; passive crossover; biamp inputs provided

Fried "C" Mini Monitors

Price
$475 (assembled); $275 (kit)
Dimensions
131/4H x 101/4W x 9D
Weight
20 lbs
Type
Pressure release
Drivers
6" Bextreme bass/midrange; 1" low-mass soft dome tweeter
Response
50 Hz to 20 kHz, +3 dB re 92 dB SPL at one meter at one watt
Crossover
3.5 kHz
Impedance
8 ohms
Min. power
25 watts (14 dBW)
Max. power
100 watts (20 dBW)
Features
Truncated pyramid with pressure release; may be used alone or with T, D, or Super subwoofers

S.E.A.S. SERIES

Disco 47 Monster

Price
$354 (kit)
Dimensions
391/2H x 191/2W x 131/2D
Weight
46 lbs
Type
Dual ducted port
Drivers
Two 12" woofers; two 6" midranges; two 4" cone tweeters; horn super tweeter
Response
40 Hz to 20 kHz, +3 dB re 100 dB SPL at one meter at one watt
Crossover
1 kHz; 3 kHz; 8 kHz
Impedance
8 ohms
Min. power
10 watts (10 dBW)
Max. power
200 watts (23 dBW)
Features
Overload protection warning; lacquer ash enclosure; preassembled

603

Price
$220 (kit)
Dimensions
391/2H x 191/2W x 131/2D
Weight
46 lbs
Type
Ducted port
Drivers
13" plastic-doped woofer; 41/2" plastic-doped midrange; 1" soft plastic dome tweeter
Response
30 Hz to 25 kHz, +3 dB re 91 dB SPL at 1 meter at one watt
Crossover
600 Hz; 3 kHz
Impedance
8 ohms
Min. power
10 watts (10 dBW)
Max. power
80 watts (19 dBW)
<table>
<thead>
<tr>
<th>Models</th>
<th>Description</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Controls</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-4000</td>
<td>Computer-tuned low-resonance bass reflex</td>
<td>$400</td>
<td>46 1/2 x 17 1/2 x 20</td>
<td>80 lbs</td>
<td></td>
<td>Bookshelf design; hand-built component drivers; walnut vinyl finish</td>
</tr>
<tr>
<td>SSU-1070</td>
<td>Loaded transmission line</td>
<td>$95</td>
<td>25 1/2 x 14 1/2 x 10 1/2</td>
<td>32 lbs</td>
<td></td>
<td>Four 12&quot; passive elements; two 6&quot; high compliance bass drivers; push/pull configuration; dual 6&quot; polypropylene midrange; 1&quot; soft-damp tweeter</td>
</tr>
<tr>
<td>SOURCE</td>
<td>Computer-tuned low-resonance bass reflex</td>
<td>$279</td>
<td>26 x 15 x 12</td>
<td>40 lbs</td>
<td></td>
<td>Computer-tuned low-resonance bass reflex</td>
</tr>
<tr>
<td>4a</td>
<td>Vented, acoustically damped</td>
<td>$297</td>
<td>26 x 13 1/2 x 10</td>
<td>30 lbs</td>
<td></td>
<td>Vented, acoustically damped</td>
</tr>
<tr>
<td>2a</td>
<td>1&quot; soft-damped</td>
<td>$297</td>
<td>26 x 13 1/2 x 10</td>
<td>30 lbs</td>
<td></td>
<td>1&quot; soft-damped</td>
</tr>
<tr>
<td>10S</td>
<td>1&quot; soft-damped</td>
<td>$199</td>
<td>25 1/2 x 14 1/2 x 12</td>
<td>46 lbs</td>
<td></td>
<td>1&quot; soft-damped</td>
</tr>
<tr>
<td>12S</td>
<td>1&quot; soft-damped</td>
<td>$369</td>
<td>33 1/2 x 17 x 12</td>
<td>70 lbs</td>
<td></td>
<td>1&quot; soft-damped</td>
</tr>
<tr>
<td>120S</td>
<td>Computer-tuned low-resonance bass reflex</td>
<td>$359</td>
<td>33 x 17 x 12</td>
<td>70 lbs</td>
<td></td>
<td>Computer-tuned low-resonance bass reflex</td>
</tr>
<tr>
<td>SOURCE</td>
<td>Tube vented reflex</td>
<td></td>
<td></td>
<td>40 Hz to 28 kHz, ± 3 dB</td>
<td></td>
<td>Tube vented reflex</td>
</tr>
<tr>
<td>1240</td>
<td>Tube vented reflex</td>
<td>N/A</td>
<td>25 1/2 x 15 x 12</td>
<td>60 lbs</td>
<td></td>
<td>Tube vented reflex</td>
</tr>
<tr>
<td>1020</td>
<td>Tube vented reflex</td>
<td>N/A</td>
<td>22 1/4 x 13 1/4 x 10 1/4</td>
<td>34 lbs</td>
<td></td>
<td>Tube vented reflex</td>
</tr>
</tbody>
</table>

**SOUND DYNAMICS**

**SONY**

Sony Corp. of America

9 West 57th St.

New York, N.Y. 10019

**High Fidelity’s Buying Guide to Stereo Components**

1. **Models also available**
   - SS-5GX, $300; SSU-3000, $300; SSU-2000, $150; SSU-1270, $100
   - Models also available
     - SS-G7X, $1,000; SS-4000, $400; SSU-2070, $150; SSU-1070, $95
     - 12S, $279; 10S, $199; 120S, $359
     - 1240, N/A; 1020, N/A

2. **Features**
   - Ferromagnetic fluid in tweeter; lacquered ash enclosure
   - Computer-tuned low-resonance bass reflex
   - Tube vented reflex

3. **Price**
   - $499
   - $489

4. **Dimensions**
   - 42 x 16 x 13
   - 46 1/2 x 14 1/2 x 10 1/2

5. **Weight**
   - 95 lbs
   - 82 lbs

6. **Type**
   - Tube vented reflex
   - Tube vented reflex

7. **Impedance**
   - 8 ohms
   - 34 lbs

8. **Max. power**
   - 20 watts (10 dBW)
   - 150 watts (21.75 dBW)

9. **Min. power**
   - 3 watts (13.75 dBW)
   - 15 watts (11.75 dBW)

10. **Response**
    - 20 Hz to 20 kHz, ± 3 dB
    - 20 Hz to 22 kHz, ± 3 dB

11. **Crossover**
    - 2 kHz
    - 2.2 kHz

12. **Dimensions**
    - 26 x 15 1/2 x 12
    - 25 1/2 x 14 1/2 x 10 1/2

13. **Weight**
    - 80 lbs
    - 32 lbs

14. **Drivers**
    - 1" soft-damped
    - 1" soft-damped

15. **Max. power**
    - 200 watts (23 dBW)
    - 150 watts (21.75 dBW)

16. **Min. power**
    - 10 watts (10 dBW)
    - 5 watts (10 dBW)

17. **Impedance**
    - 8 ohms (nominal)
    - 8 ohms

18. **Features**
    - External fusing (AGC-4); genuine walnut veneer enclosure
    - External fusing (AGC-3); genuine walnut veneer enclosure

19. **Models also available**
    - 1220, N/A; D-12, N/A; 3a, $350; 1a, $199
    - 1435 Jacqueline Dr., Columbus, Ga. 31907

20. **SOURCE**
    - 1435 Jacqueline Dr.
    - Columbus, Ga. 31907

21. **SYLVAN MONITOR**
    - 1435 Jacqueline Dr.
    - Columbus, Ga. 31907

22. **SPEAKER CR AFT**
    - Speakercraft of Oregon
    - P.O. Box 13460
    - Portland, Ore. 97213

23. **SYLVAN STANDARD**
    - 1435 Jacqueline Dr.
    - Columbus, Ga. 31907

24. **Price**
    - $199
    - $179

25. **Dimensions**
    - 42 x 16 x 13
    - 46 x 16 x 14

26. **Weight**
    - 95 lbs
    - 82 lbs

27. **Type**
    - Tube vented reflex
    - Tube vented reflex

28. **Impedance**
    - 8 ohms
    - 8 ohms

29. **Max. power**
    - 200 watts (23 dBW)
    - 150 watts (21.75 dBW)

30. **Min. power**
    - 10 watts (10 dBW)
    - 5 watts (10 dBW)

31. **Impedance**
    - 8 ohms (nominal)
    - 8 ohms

32. **Features**
    - External fusing (AGC-3); genuine walnut veneer enclosure
    - External fusing (AGC-4); genuine walnut veneer enclosure
### SPEAKERLAB

**Speakerlab, Inc.**

735 N. Northlake Way

Seattle, Wash. 98103

**SK**

- **Price**: $650 (SKFW kit, $445)
- **Dimensions**: 50 1/4" x 32 1/4" x 28 1/4"D
- **Weight**: 160 lbs.
- **Type**: Acoustic suspension
- **Drivers**: Three 10" woofers, 3 1/2" subchamber, ACW woofer system
- **Response**: 25 Hz to 20 kHz, 12 dB re 94 dB
- **Features**: Light molded piano finish, new speaker grille design

**S-6**

- **Price**: $360 (vinyl kit, $256)
- **Dimensions**: 27 1/4"H x 15 1/4"W x 11 1/4"D
- **Weight**: 70 lbs.
- **Type**: Acoustic suspension
- **Drivers**: Two 10" woofers, 4" subwoofer; 4 1/4" x 14 1/4" Wave Aperture® driver, 4" x 8 1/2" Wave Aperture® driver
- **Response**: 91 dB SPL at 1 meter at 1 watt
- **Crossover**: 1 kHz, 6 kHz
- **Impedance**: 8 ohms
- **Max. power**: 150 watts (13 dBW)
- **Max. power**: 150 watts (25 dBW)
- **Features**: New patented woofer design

**S-15 Titus Subwoofer**

- **Price**: $650
- **Dimensions**: 36"H x 15 1/4" dia.; 48"H x 18" dia., with legs
- **Weight**: 75 lbs. (approx., depending on leg style)
- **Type**: Cylindrical Column Of Air Effect® subwoofer
- **Drivers**: 15" extended-range subwoofer
- **Response**: 19 Hz to 100 Hz, ±2 dB
- **Crossover**: Passive at 100 Hz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 250 watts (24 dBW)
- **Features**: Midnight black flat smooth finish with interchangeable pecan legs; chain package available for hanging

**S-310 Galatian Edition**

- **Price**: $345
- **Dimensions**: 30"H x 12 1/4" dia.; 25 1/8"H x 9 1/4" dia., with legs
- **Weight**: 34 lbs. (approx., depending on unit type)
- **Type**: Cylindrical Column Of Air Effect® subwoofer
- **Drivers**: 10" subwoofer; 4 1/4" midrange; 1" dome tweeter
- **Response**: 29 Hz to 20 kHz, ±2.5 dB re 91 dB SPL at one meter at one watt
- **Crossover**: 650 Hz, 6.5 kHz
- **Impedance**: 8 ohms
- **Min. power**: 15 watts (11 1/4 dBW)
- **Max. power**: 125 watts (21 dBW)
- **Features**: Available in midnight Black (a flat smooth finish, pecan legs standard); Palamino (combination brass, light tan fabric with interchangeable pecan legs); mocha (same as Palamino except with dark brown pile fabric); chrome (combination chrome or blacktone, trim rings, light silver blue fabric, interchangeable solid clear acrylic legs standard); chain package available for hanging

**SPECKMAN**

J.W.S. Acoustic Design Corp.

11407A Route 14

Harvard, Ill. 60033

**S-415 Titus**

- **Price**: $1,025
- **Dimensions**: 36 1/4"H x 15 1/4"W x 11 1/4"D
- **Weight**: 75 lbs. (approx., depending on leg style)
- **Type**: Cylindrical Column Of Air Effect® subwoofer
- **Drivers**: 15" extended-range subwoofer; one 4" lower midrange; two 2" dome midranges, two 1" dome tweeters
- **Response**: 19 Hz to 20 kHz, ±2 dB re 91 dB SPL at 1 meter at 1 watt
- **Crossover**: 450 Hz, 2 kHz, 6 kHz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 250 watts (24 dBW)

**SPECKMAN**

J.W.S. Acoustic Design Corp.

11407A Route 14

Harvard, Ill. 60033

**S-415 Titus**

- **Price**: $1,025
- **Dimensions**: 36 1/4"H x 15 1/4"W x 11 1/4"D
- **Weight**: 75 lbs. (approx., depending on leg style)
- **Type**: Cylindrical Column Of Air Effect® subwoofer
- **Drivers**: 15" extended-range subwoofer; one 4" lower midrange; two 2" dome midranges, two 1" dome tweeters
- **Response**: 19 Hz to 20 kHz, ±2 dB re 91 dB SPL at 1 meter at 1 watt
- **Crossover**: 450 Hz, 2 kHz, 6 kHz
- **Impedance**: 8 ohms
- **Min. power**: 25 watts (14 dBW)
- **Max. power**: 250 watts (24 dBW)

**STRELLOFF**

Strellof System Designs

5305 Teudilla Ave.

Woodland Hills, Calif. 91364

**TS-1 Transducer System**

- **Price**: $5,500/1 pr.; pr.
- **Dimensions**: 36"H x 36"W x 18"D
- **Weight**: 210 lbs.
- **Type**: Acoustic suspension
### TE-1 Transducer Bass Extender

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$3,000/pr.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>32H x 28W x 39D</td>
</tr>
<tr>
<td>Weight</td>
<td>180 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Multichamber infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 10&quot; cast aluminum frame woofers; six 1½&quot; dome midranges; six 1&quot; dome tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>38 Hz to 18 kHz, ±4 dB re 87 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms, 500 Hz</td>
</tr>
<tr>
<td>Min. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>500 watts (27 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Blamp, triamp, low frequency rolloff (mode switches); 10 dB attenuation for each frequency range (rotary controls)</td>
</tr>
</tbody>
</table>

### MS-1 Monitor System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$1,250/pr.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>18H x 7½W x 7½D</td>
</tr>
<tr>
<td>Weight</td>
<td>32 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Exponentially loaded acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 5&quot; cast aluminum frame woofers; two 1½&quot; dome midranges; two 1&quot; dome tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>70 Hz to 18 kHz, ±4 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>5 ohms at 500 Hz</td>
</tr>
<tr>
<td>Min. power</td>
<td>20 watts (13 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>200 watts (23 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Cabinet construction includes high density 1½&quot; thick walls and internal bracing; custom finishes available</td>
</tr>
</tbody>
</table>

### Models also available

- **TE-1 Monitor System Extender**, $950

---

### SUPEREX

**Superex Electronics Corp.**

151 Ludlow St.

Yonkers, N.Y. 10705

**Satellite/1**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$399.95</td>
</tr>
<tr>
<td>Dimensions</td>
<td>10¼H x 8 ½W x 6D</td>
</tr>
<tr>
<td>Weight</td>
<td>5 lbs. 3 oz.</td>
</tr>
<tr>
<td>Type</td>
<td>Dynamic high frequency augmentation</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 1&quot; textile dome tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>4 Hz to 4 kHz to 20 kHz, ±2 dB re 66 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>4 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>High-frequency attenuator</td>
</tr>
<tr>
<td>Features</td>
<td>Slotted dispersion plate eliminates beaming; high resolution driver design in non-resonant smoked plexiglass enclosure</td>
</tr>
</tbody>
</table>

**SYNERGISTICS**

Maybern Co.

9565 Midwest Ave.

Cleveland, Ohio 44125

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### S-92 Panels and Commode

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$2,000</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Commode: 19 ¾H x 28W x 18D; panels: 61H x 23W x 4D</td>
</tr>
<tr>
<td>Weight</td>
<td>Commode: 130 lbs.; panels: 70 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>Drivers</td>
<td>Six 4½&quot; open-back midrange drivers, 12&quot; woofers, two bipolar tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>24 Hz to 20 kHz, ±4 dB re 91 dB SPL at 1 meter at 1 watt</td>
</tr>
<tr>
<td>Crossover</td>
<td>140 Hz, 2.0 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>35 watts (15.5 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>600 watts (27.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midsrange and tweeter levels</td>
</tr>
<tr>
<td>Features</td>
<td>Custom finishes available</td>
</tr>
</tbody>
</table>

---

### S-73 Tower

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$575</td>
</tr>
<tr>
<td>Dimensions</td>
<td>30H x 21¼W x 15D</td>
</tr>
<tr>
<td>Weight</td>
<td>79 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Vented</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; passive radiator, two 8&quot; high compliance woofers, bipolar samarium cobalt tweeter midrange</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz, ±3 dB</td>
</tr>
<tr>
<td>Crossover</td>
<td>45 Hz, 2.0 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Min. power</td>
<td>15 watts (11.75 dBW)</td>
</tr>
<tr>
<td>Max. power</td>
<td>150 watts (21.75 dBW)</td>
</tr>
<tr>
<td>Controls</td>
<td>Midrange and tweeter levels</td>
</tr>
<tr>
<td>Features</td>
<td>Circuit breakers; ¾&quot; high density particle board finished with genuine hand-rubbed walnut veneer, 3-piece bipolar with stereo subwoofer</td>
</tr>
</tbody>
</table>

---

### Models also available

- **S-63 Tower**, $400; **S-46**, $250; **S-33**, $175; **S-23**, $150; **S-12B**, $100

---

### TAMON

**Tamon Audio Corp. of America**

P.O. Box 322

Concord, Calif. 94522

**TS-707**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$380</td>
</tr>
<tr>
<td>Dimensions</td>
<td>31¼H x 16½W x 11¾D</td>
</tr>
<tr>
<td>Weight</td>
<td>55 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>Two 15&quot; cone woofer, two 5&quot; sealed-back cone midrange drivers; 3&quot; ring-radiating tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>300 Hz, 6 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>110 watts (20.5 dBW); 200 watts (23 dBW) peak</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Electronic overload-protection circuit</td>
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</table>

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### CRO-50L

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
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<tbody>
<tr>
<td>Price</td>
<td>$360</td>
</tr>
<tr>
<td>Dimensions</td>
<td>24¼H x 14½W x 11¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>39 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>12&quot; cone woofer, 5&quot; sealed-back cone midrange; two 3&quot; cone tweeters</td>
</tr>
<tr>
<td>Response</td>
<td>32 Hz to 22 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>45 watts (16.5 dBW); 80 watts (19 dBW) peak</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Suitable for home or auto use</td>
</tr>
</tbody>
</table>

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### TS-404

<table>
<thead>
<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Price</td>
<td>$249.95</td>
</tr>
<tr>
<td>Dimensions</td>
<td>22½H x 12¼W x 11¼D</td>
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<td>Weight</td>
<td>27 lbs. 8 oz.</td>
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<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; cone woofer, 5&quot; sealed-back cone-midrange, 3&quot; ring-radiating tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>38 Hz to 35 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>800 Hz, 2.5 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>60 watts (17.75 dBW); 100 watts (20 dBW) peak</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
<tr>
<td>Features</td>
<td>Suitable for home or auto use</td>
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</tbody>
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### TS-303

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Price</td>
<td>$140</td>
</tr>
<tr>
<td>Dimensions</td>
<td>18¼H x 11½W x 8¼D</td>
</tr>
<tr>
<td>Weight</td>
<td>19 lbs.</td>
</tr>
<tr>
<td>Type</td>
<td>Infinite baffle</td>
</tr>
<tr>
<td>Drivers</td>
<td>8&quot; cone woofer; 2&quot; cone tweeter</td>
</tr>
<tr>
<td>Response</td>
<td>45 Hz to 22 kHz</td>
</tr>
<tr>
<td>Crossover</td>
<td>3 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Max. power</td>
<td>40 watts (16 dbW); 70 watts (18.5 dBW) peak</td>
</tr>
<tr>
<td>Controls</td>
<td>None</td>
</tr>
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<td>Features</td>
<td>Suitable for home or auto use</td>
</tr>
</tbody>
</table>

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### CRO-30L

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
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<tbody>
<tr>
<td>Price</td>
<td>$140</td>
</tr>
</tbody>
</table>

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**High Fidelity's Buying Guide to Stereo Components**
### Dimensions
- **19H x 10½W x 8¾D**
- **33H x 21W x 12D**
- **32H x 17½W x 16¼D**
- **28H x 15W x 12D**
- **40½H x 17½W x 16¼D**
- **29H x 11½W x 10¾D**
- **24H x 11¼W x 10¾D**
- **25H x 13W x 11½D**
- **28½H x 15½W x 12½D**
- **16⅛H x 12¼W x 10¾D**

### Weight
- **16 lbs.**
- **90 lbs.**
- **66 lbs.**
- **72 lbs.**
- **70 lbs.**
- **54 lbs.**
- **40 lbs.**
- **30 lbs.**
- **49½ lbs.**
- **225 lbs.**
- **216 lbs.**

### Type
- **Acoustic suspension**
- **Ducted port**
- **Acoustic suspension**
- **Passive radiator**
- **Ducted port**
- **Passive radiator**
- **Ducted port**
- **Linear phase design**
- **Ducted port**
- **Ducted port**

### Drivers
- **15” woofer with compression high-frequency tweeter mounted on common axis**
- **10” woofer with compression high-frequency tweeter mounted on common axis**
- **Two 1½” dome tweeters mounted in a common axis**
- **One 1½” dome tweeter**
- **1” dome tweeter mounted in a common axis**
- **1½” dome tweeter**
- **1” dome tweeter mounted in a common axis**
- **Treble energy; treble rolloff; treble relay protects each driver**
- **Thermal relays for each speaker; high-dispersion acoustic lens for tweeter**
- **Glass-top floor-standing speaker utilizing phase-coherence integrated design**

### Max. power
- **25 watts (14 DBW) (music); 18 watts (12.5 DBW) (DIN)**
- **150 watts (17.5 DBW) continuous**
- **10 watts (10 dBW)**
- **100 watts (20 dBW) continuous**
- **150 watts (21.75 DBW) continuous**
- **150 watts (21.75 DBW) continuous**
- **10 watts (10 dBW)**
- **100 watts (20 dBW) continuous**
- **100 watts (17.75 DBW) continuous**
- **225 watts (19.5 dBW) DIN)**

### Impedance
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**
- **8 ohms**

### Crossover
- **1 kHz**
- **45 Hz to 20 kHz, ±4 dB**
- **50 Hz to 20 kHz, 92 dB SPL at 1 meter at 1 watt**
- **50 Hz to 20 kHz, 92 dB SPL at 1 meter at 1 watt**
- **60 Hz; 3.5 kHz**
- **1.6 kHz, 4.5 kHz**
- **10 kHz, 80 kHz**
- **8 ohms**
- **8 ohms**

### Response
- **45 Hz to 22 kHz, 89.5 dB SPL at 1 meter at 1 watt**
- **3 kHz to 20 kHz, 89.5 dE SPL at 1 watt**
- **45 Hz to 20 kHz, ±4 dB**
- **45 Hz to 20 kHz, ±3 dB**
- **45 Hz to 20 kHz, 8½ dB**
- **45 Hz to 20 kHz, ±2 db re 92 dB SPL at 1 meter at 1 watt**
- **45 Hz to 20 kHz, ±3 dB**
- **45 Hz to 20 kHz, ±3 dB**
- **47 Hz to 20 kHz, 8½ dB**
- **47 Hz to 20 kHz, ±3 dB**

### Controls
- **Resettable thermal relays for each speaker**
- **Resettable thermal relay protects each driver**
- **Resettable thermal relay protects each driver**
- **Resettable thermal relay protects each driver**
- **Resettable thermal relay protects each driver**
- **Resettable thermal relay protects each driver**
- **Resettable thermal relay protects each speaker**
- **Resettable thermal relays protect each driver**
- **Resettable thermal relays protect each speaker**
- **Resettable thermal relays protect each speaker**

### Features
- **Linear phase design; resettable thermal relays to protect each driver**
- **Phase-coherent Integrated design**
- **Phase-coherent integrated design**
- **Phase-coherence integrated design**

### Additional Information
- **Treble rolloff; treble energy**
- **Treble energy; treble rolloff**
- **Phase-coherence integrated design**
- **Phase-coherence integrated design**
- **Phase-coherence integrated design**
- **Phase-coherence integrated design**
- **Phase-coherence integrated design**

---

### Models also available
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**

---

### Notes
- **Crossover 3.2 kHz**
- **Impedance 8 ohms**
- **Max. power 75 watts (18.75 DBW) (music); 50 watts (17 DBW) (DIN)**
- **Max. power 75 watts (18.75 DBW) (music); 50 watts (17 DBW) (DIN)**
- **Max. power 75 watts (18.75 DBW) (music); 50 watts (17 DBW) (DIN)**
- **Max. power 75 watts (18.75 DBW) (music); 50 watts (17 DBW) (DIN)**
- **Max. power 75 watts (18.75 DBW) (music); 50 watts (17 DBW) (DIN)**

---

### Models also available
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
- **TS-505, $345; CRO-40L, $250; CRO-33L, $169**
<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tri-Delta II B</strong></td>
<td>27 1/4&quot; x 31 1/4&quot; W x 25 1/4&quot; D</td>
<td>41 lbs.</td>
<td>Air suspension; vented</td>
</tr>
<tr>
<td><strong>Tri-Delta I</strong></td>
<td>24 1/4&quot; x 28 1/4&quot; W x 23 1/4&quot; D</td>
<td>37 lbs.</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td><strong>Tri-Delta III</strong></td>
<td>29 1/4&quot; x 34 1/4&quot; W x 28 1/4&quot; D</td>
<td>60 lbs.</td>
<td>Suspension</td>
</tr>
<tr>
<td><strong>Sound Rack/Tracer 1501</strong></td>
<td>51H x 20W x 5D</td>
<td>75 lbs.</td>
<td>Bifurcated transmission line</td>
</tr>
<tr>
<td><strong>Sound Window/Tracer 1001A</strong></td>
<td>32H x 22W x 5D</td>
<td>45 lbs.</td>
<td>Vented transmission line</td>
</tr>
<tr>
<td><strong>Monitor Seven</strong></td>
<td>44H x 24W x 17D</td>
<td>156 lbs.</td>
<td>High-efficiency acoustic suspension</td>
</tr>
<tr>
<td><strong>Monitor II</strong></td>
<td>156 lbs.</td>
<td>156 lbs.</td>
<td>High-efficiency acoustic suspension</td>
</tr>
<tr>
<td><strong>Monitor III</strong></td>
<td>8&quot; cone woofer; 5&quot; cone midrange; 4&quot; dome tweeter</td>
<td>231/2H x 113/4W x 91/4D</td>
<td>231/2H x 113/4W x 91/4D</td>
</tr>
<tr>
<td><strong>ULTRALINEAR Ultralinear Loudspeakers</strong></td>
<td>256 watts (12 dBW)</td>
<td>41 lbs.</td>
<td>Air suspension; vented</td>
</tr>
<tr>
<td><strong>VERIT Wald Sound, Inc.</strong></td>
<td>31 kHz to 22.5 kHz</td>
<td>37 lbs.</td>
<td>Air suspension</td>
</tr>
<tr>
<td><strong>RL-X5</strong></td>
<td>700 Hz; 4 kHz</td>
<td>31 kHz to 22.5 kHz</td>
<td>Air suspension; vented</td>
</tr>
</tbody>
</table>

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**Models also available:**

- Sound Rack/Tracer 701, $249
- Sound Ends/Tracer 1001A, $349
- Monitor Seven, $990
- Monitor II, $398
- Monitor III, $990
- ULTRALINEAR Ultralinear Loudspeakers, $360
- VERIT Wald Sound, Inc., $479
- RL-X5, $329
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Type</th>
<th>Drivers</th>
<th>Impedance</th>
<th>Min. power</th>
<th>Max. power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL-X3</td>
<td>$260</td>
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<tr>
<td>VERMONT WOOD CRAFTS</td>
<td>Vermont Wood Crafts, Inc.</td>
<td>P.O. Box 206</td>
<td></td>
<td></td>
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<tr>
<td>Proctorsville, Vt. 05153</td>
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<tr>
<td>SL-5</td>
<td>$199.95</td>
<td>34 1/2 x 18 1/2 x 12 D</td>
<td>45 lbs</td>
<td>Bass reflex</td>
<td>15&quot; woofers, 3 1/2&quot; midrange, two 2 1/2&quot; direct radiating tweeters</td>
<td>8 ohms</td>
<td>20 watts</td>
<td>120 watts</td>
<td>Tweeter, midrange; also available</td>
</tr>
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<td></td>
<td></td>
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<td>Circuit breaker, attached floor stands</td>
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<tr>
<td>SL-2</td>
<td>$99.95</td>
<td>25 x 15 x 10 1/4 D</td>
<td>32 lbs</td>
<td>Bass reflex</td>
<td>12&quot; woofers, 3&quot; phenolic radiator tweeter</td>
<td>8 ohms</td>
<td>15 watts</td>
<td>10 watts</td>
<td>Tweeter, midrange</td>
</tr>
<tr>
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<td>Circuit breaker</td>
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<td>SL-1</td>
<td>$79.95</td>
<td>20 x 12 x 8 D</td>
<td>21 lbs</td>
<td>Bass reflex</td>
<td>8&quot; woofers; 3&quot; phenolic radiator tweeter</td>
<td>8 ohms</td>
<td>5 watts</td>
<td>10 watts</td>
<td>Tweeter, midrange</td>
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<td>Models also available</td>
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<td>SL-4, $179.95; SL-3, $119.95</td>
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<tr>
<td>VISIONIK HIFI</td>
<td>Visonik of America, Inc.</td>
<td>701 Heinz St. Berkeley, Calif. 94710</td>
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<tr>
<td>9000</td>
<td>$300</td>
<td>14 x 14 x 9 1/2 D</td>
<td>19 lbs</td>
<td>Air suspension</td>
<td>7&quot; woofer; 1 1/2&quot; midrange, 3/4&quot; tweeter</td>
<td>4 ohms</td>
<td>20 watts</td>
<td>120 watts</td>
<td>Recommended for auto installation</td>
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<tr>
<td>7000</td>
<td>$185</td>
<td>9 x 6 x 6 1/2 D</td>
<td>10 lbs</td>
<td>Acoustic suspension</td>
<td>5&quot; woofer, 1&quot; tweeter</td>
<td>4 ohms</td>
<td>20 watts</td>
<td>70 watts</td>
<td>Subwoofer unit with built-in matrixing</td>
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<td></td>
<td>crossover</td>
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<tr>
<td>D-702</td>
<td>$210 (black); $235 (walnut)</td>
<td>12 x 8 x 7 D</td>
<td>17 lbs</td>
<td>Acoustic suspension</td>
<td>7&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>4 ohms</td>
<td>10 watts</td>
<td>90 watts</td>
<td>Acoustic suspension</td>
</tr>
<tr>
<td>D-5000</td>
<td>$155 (optional bracket, $10)</td>
<td>6 1/2 x 4 1/2 x 4 D</td>
<td>5 lbs</td>
<td>Acoustic suspension</td>
<td>4&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>4 ohms</td>
<td>10 watts</td>
<td>50 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
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<td>automotive amplifier</td>
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<tr>
<td>D-302 MO Speaker</td>
<td>$100 (with mounting bracket)</td>
<td>8 x 4 x 4 D</td>
<td>5 lbs</td>
<td>Acoustic suspension</td>
<td>4&quot; woofer, 2&quot; cone tweeter</td>
<td>4 ohms</td>
<td>10 watts</td>
<td>50 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
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<td>EURO SERIES</td>
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<tr>
<td>EURO 10</td>
<td>$380</td>
<td>29 x 14 x 11 1/4 D</td>
<td>49 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; woofer; 1 1/2&quot; midrange, 3/4&quot; tweeter</td>
<td>4 ohms</td>
<td>40 watts</td>
<td>160 watts</td>
<td>Re: 40 Hz to 17 kHz, ±2 dB re 88 dB</td>
</tr>
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<td></td>
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<td></td>
<td>SPL at one meter at one watt/800 Hz, 4 1/2 kHz</td>
</tr>
<tr>
<td>EURO 5</td>
<td>$170</td>
<td>19 x 11 x 9 1/4 D</td>
<td>24 lbs</td>
<td>Acoustic suspension</td>
<td>8&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>4 ohms</td>
<td>10 watts</td>
<td>50 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
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<tr>
<td>SUB 1</td>
<td>$300 ($630 with David 502)</td>
<td>23 x 14 x 13 1/4 D</td>
<td>64 lbs</td>
<td>Acoustic suspension</td>
<td>12&quot; woofer, tweeter</td>
<td>4 ohms</td>
<td>150 watts</td>
<td>300 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
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</tr>
<tr>
<td>SUB 2</td>
<td>$300 ($600 with David 6000)</td>
<td>19 x 14 x 11 1/2 D</td>
<td>38 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; dual voice coil tweeter</td>
<td>6 ohms</td>
<td>40 watts</td>
<td>240 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>automotive amplifier</td>
</tr>
<tr>
<td>EURO SERIES</td>
<td></td>
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<tr>
<td>EURO 10</td>
<td>$380</td>
<td>29 x 14 x 11 1/4 D</td>
<td>49 lbs</td>
<td>Acoustic suspension</td>
<td>10&quot; woofer; 1 1/2&quot; midrange, 3/4&quot; tweeter</td>
<td>4 ohms</td>
<td>40 watts</td>
<td>160 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
<td>automotive amplifier</td>
</tr>
<tr>
<td>EURO 5</td>
<td>$170</td>
<td>19 x 11 x 9 1/4 D</td>
<td>24 lbs</td>
<td>Acoustic suspension</td>
<td>8&quot; woofer, 1&quot; soft-dome tweeter</td>
<td>4 ohms</td>
<td>10 watts</td>
<td>50 watts</td>
<td>Recommended for auto use with Visonik A-301</td>
</tr>
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<td></td>
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<td>automotive amplifier</td>
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1980 Edition
<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-30</td>
<td>$300</td>
<td>22 4/5 H x 13 1/5 W x 10 3/100</td>
<td></td>
</tr>
<tr>
<td>Drivers</td>
<td>20 6/10&quot; bass/midranges; horn tweeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>63 Hz to 18 kHz; 3 dB re 94 dB SPL at 1 meter at 1 watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover</td>
<td>0 Hz, 7 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. power</td>
<td>100 watts (20 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (20 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>TWEETER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>Hand-finished, matched walnut veneer pairs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>L-300</td>
<td>$275</td>
<td>26 3/16 H x 13 1/16 W x 13 1/16</td>
<td></td>
</tr>
<tr>
<td>Drivers</td>
<td>Acoustic suspension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>38 Hz to 26 kHz; 3 dB re 88 dB SPL at 1 meter at 1 watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz, 5.5 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. power</td>
<td>90 watts (19.5 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power</td>
<td>90 watts (19.5 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>Hand-finished in walnut veneer matched pairs; laser-beam holography/computer-optimization of bass drivers and cabinet size</td>
<td></td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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<tbody>
<tr>
<td>E-90</td>
<td>$850</td>
<td>45 1/4 H x 15 3/16 W x 14 1/4</td>
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</tr>
<tr>
<td>Drivers</td>
<td>Bass reflex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>43 Hz to 18 kHz; 3 dB re 95 dB SPL at 1 meter at 1 watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover</td>
<td>1 kHz; 5 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>8 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. power</td>
<td>100 watts (17 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power</td>
<td>100 watts (17 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>Low frequency, tweeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>Natural walnut veneer on high density particle board; matched pairs</td>
<td></td>
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<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>XP-80</td>
<td>$510</td>
<td>22 3/8 H x 12 W x 10 1/2 D</td>
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<tr>
<td>Drivers</td>
<td>Acoustic suspension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz; 3 dB re 86 dB SPL at 1 meter at 1 watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover</td>
<td>1.3 kHz; 4.5 kHz</td>
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<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
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<td></td>
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<tr>
<td>Max. power</td>
<td>40 watts (16 dBW)</td>
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<tr>
<td>Controls</td>
<td>Low frequency, tweeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>Matched pairs, brown jersey grille cloth</td>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>E-50</td>
<td>$430</td>
<td>26 1/4 H x 13 1/5 W x 13 1/5</td>
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<tr>
<td>Drivers</td>
<td>Bass reflex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>55 Hz to 18 kHz; 3 dB re 94 dB SPL at 1 meter at 1 watt</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models also available</td>
<td>Model Ten; Model Seven</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHARFEDALE</td>
<td>Rank Hi Fi Inc.</td>
<td>20 Bushes Lane</td>
<td>Elmwood Park, N.J. 07407</td>
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</table>

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<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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<tbody>
<tr>
<td>XP-20</td>
<td>$90</td>
<td>14 1/4 x 10 W x 9 D</td>
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<tr>
<td>Drivers</td>
<td>Acoustic suspension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>65 Hz to 18 kHz; 3 dB re 88 dB SPL at 1 meter at 1 watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossover</td>
<td>1.4 Hz; 3.5 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>6 ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. power</td>
<td>10 watts (10 dBW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power</td>
<td>70 watts (18.5 dBW)</td>
<td></td>
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</tr>
<tr>
<td>Features</td>
<td>Matched pairs, brown jersey grille cloth</td>
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</tbody>
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<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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<tbody>
<tr>
<td>Models also available</td>
<td>Model Ten; Model Seven</td>
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<tr>
<th>Type</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Price</th>
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<tbody>
<tr>
<td>Models also available</td>
<td>Model Ten; Model Seven</td>
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</table>
Equalizers

ADC
BSR (USA) Ltd.
Route 303
Blauvelt, N.Y. 10913

Sound Shaper 3 Equalizer
Price $500
Dimensions 6 1/4H x 19W x 12D
Weight 11 lbs.
Bands 12 per channel
Range ±12 dB in each band
Input imp. 75K ohms
Output imp. ±12 dB at 1 kHz
Max. output 10V
Features Paragraphed equalizer allows control of 36 frequency ranges/channel

Sound Shaper 2 Mk 2 Equalizer
Price $330
Dimensions 6 1/4H x 16 3/4W x 6 1/4D
Weight 13 lbs.
Bands 12 per channel
Range ±12 dB in each band
Input imp. 75K ohms
Output imp. 10 ohms at 1 kHz
Max. output 9V
Features Includes line/record, monitor, EG-bypass, meter switches, and input jack for sound level meter

Sound Shaper 110 Equalizer
Price $230
Dimensions 6 1/4H x 14 1/4W x 6 1/4D
Weight 11 lbs.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 75K ohms
Output imp. 10 ohms at 1 kHz
Max. output 10V

Models also available
Sound Shaper-1 Equalizer, $120

AUDIO CONTROL
Audio Control, Inc.
6520 212th St., S.W., B-1
Lynwood, Wash. 98036

C-101 Octave Equalizer
Price $549
Dimensions 3 1/8H x 19W x 6 1/8D
Weight 8 lbs.
Bands 10 per channel
Range ±15 dB in each band
Input imp. 100K ohms
Output imp. 680 ohms
Max. output 7V
Features LED display real-time analyzer, pink-noise generator, mic input; switchable infrasonic filter; rack-mount

C-50A Equalizer
Price $399
Dimensions 3 1/8H x 9 1/2W x 6 1/2D
Weight 4 lbs.

Bands 10
Input imp. 100K ohms
Max. input 7V
Output imp. 680 ohms
Max. output 7V
Features Includes pink-noise generator and measurement microphone; real-time analyzer

520B Equalizer
Price $119
Dimensions 2 3/5H x 12 3/10W x 5D
Weight 2 lbs. 6 oz.
Bands 5 per channel
Range ±12 dB to ±15 dB in each band
Input imp. 47K ohms
Max. input 7.5V
Output imp. 600 ohms
Max. output 7V
Features Switchable infrasonic filter; EQ points at 3kHz, 60 Hz, 120 Hz, 1 kHz, and 15.5 kHz; narrow-bandwidth filters

Models also available
C-25 Equalizer, $299; C-22 Equalizer, $229

AUDIO DEVELOPMENTS INTERNATIONAL
Audio Developments
644 Emerson St.
Palo Alto, Calif. 94301

1500 Automatic Equalizer
Price $850
Dimensions 5H x 19W x 10D
Weight 12 lbs.
Bands 10 per channel
Range ±12 dB in each band
Input imp. 10K ohms
Max. input ±3 dB
Output imp. 600 ohms
Max. output ±18 dB
Level contr. ±12 dB, ±12 dB (insertion gain)
Features Patented LED indicators; no external test equipment needed

1503 Equalizer
Price $730
Dimensions 3H x 19W x 10D
Weight 10 lbs.
Bands 31
Range ±12 dB in each band
Input imp. 10K ohms
Max. input ±30 dB
Output imp. 600 ohms (balanced)
Max. output ±27 dB
Level contr. ±12 dB, ±12 dB (insertion gain)
Features Low noise, distortion; full range graphic 1/3 octave equalizer, 20 Hz to 20 kHz bands; optimum range indicator included; ±115 dBV noise

Models also available
1601 Equalizer, $375

BIAMP
Biamp Systems, Inc.
10950 S.W. 5th Ave., #110
Beaverton, Ore. 97005

EQ/270A Equalizer
Price $459
Dimensions 3 1/4H x 19W x 10D
Weight 3 lbs. 4 oz.
Bands 27
Range ±12 dB in each band
Input imp. 600/50K ohms
Max. input 14V
Output imp. 600 ohms
Max. output 21.25V
Level contr. ±12 dB, ±12 dB (insertion gain)
Features High slew rate; twenty-seven bands on standard 1/2-octave ISO centers; low noise and distortion; EQ bypass switching; LED overload indicator, XLR-type connectors and phone jacks on inputs and outputs; transformerless balanced lines in and out; all metal, oil-damped slide controls with center detent; combining filters; low-phase shift; magnetic field immunity; outputs short-circuit and reverse-surge protected; switchable input impedance; rugged interconnect construction; rack-mount design

EQ/210 Equalizer
Price $269
Dimensions 3 1/4H x 19W x 5 3/4D
Weight 2 lbs. 8 oz.
Bands 10 per channel
Range ±15 dB in each band
Input imp. 50K ohms
Max. input 14V
Output imp. 600 ohms
Max. output 17V
Level contr. ±15 dB, ±15 dB (insertion gain)
Features Transformerless balanced line inputs and outputs or conventional single-ended; two completely independent channels; EQ bypass switching; LED overload indicators; magnetic field immunity; output short-circuit and reverse-surge protected; rack-mount design

CERWIN-VEGA
Cerwin-Vega, Inc.
12250 Montague St.
Arleta, Calif. 91331

GE-2 Equalizer
Price $600
Dimensions 5 1/4H x 19W x 7 3/4D
Weight 12 lbs.
Bands 13
Range ±12 dB in each band
Input imp. 50K ohms (nominal)
Max. input 4V
Output imp. 50 ohms (nominal output imp. 2K ohms min. rated load imp.)
Max. output 8V
Level contr. ±6 dB, ±6 dB (insertion gain)
Features Half-octave control below 250 Hz, full octave control above 250 Hz

1980 Edition
### Crown International, Inc.  
#### EQ/2 Distinction Series Equalizer
- **Model:** P0-3 Mono Parametric Equalizer/Instrument Preamp
- **Price:** $225
- **Dimensions:** 14⅛H x 19W x 8 ⅞D
- **Weight:** 5 lbs.
- **Bands:** +6 dB; ±12 dB (insertion gain)
- **Features:** Tunable frequency and bandwidth (latter variable from approximately 0.1 to 4 octaves); bypass switches; tape monitor switch; low-level inputs allow use as an instrument preamp; notches can go infinitely deep (i.e., total cancellation at selected frequency); S/N 99 dB with EQ in and set flat.

### Draco Labs, Inc.
#### Draco Labs Equalizer
- **Model:** SEA -20G Equalizer
- **Price:** $275
- **Dimensions:** 2 ⅝H x 14W x 12 ⅝D
- **Weight:** 16 lbs.
- **Bands:** +6 dB; ±12 dB (insertion gain)
- **Features:** Resonant circuits with semiconductor-L inductors.

### Dynaco Inc.
#### Dynaco Equalizer
- **Model:** SEA-50 Equalizer
- **Price:** $190
- **Dimensions:** 4⅞H x 15W x 10⅝D
- **Weight:** 7 lbs. 8 oz.
- **Bands:** 7 per channel
- **Range:** ±12 dB in each band
- **Features:** Resonant networks with semiconductor-L inductors.

### JVC America, Inc.
#### JVC Equalizer
- **Model:** SEA-50 Equalizer
- **Price:** $290
- **Dimensions:** 6⅝H x 16⅜W x 13½D
- **Weight:** 19 lbs.
- **Bands:** +12 db; +6 dB (insertion gain)
- **Features:** One-third octave ISO center frequency set flat.

### Lux Audio of America, Ltd.
#### Luxman Equalizer
- **Model:** SEA-7070 Equalizer
- **Price:** $780
- **Dimensions:** 8½H x 19W x 13½D
- **Weight:** 60V
- **Bands:** +12 dB; ±2 dB (insertion gain)
- **Features:** Range-selector bypass switch.
### MOD 128 One-Third Octave Equalizer

**Price**: $350  
**Dimensions**: 5½H x 19W x 6D  
**Weight**: 5 lbs.  
**Bands**: 31  
**Range**: ±12 dB in each band  
**Input imp.**: 20K ohms  
**Max. input**: 8V  
**Max. output**: 8V  
**Level contr.**: ±12 dB, -12 dB (insertion gain)  
**Features**: EQ bypass switch; one-third octave frequency centers; furnished with walnut side panels; rack-mounting ears optional

### MOD 114 Graphic Equalizer

**Price**: $219.95  
**Dimensions**: 2H x 9W x 7D  
**Weight**: 4 lbs. 8 oz.  
**Bands**: 10  
**Range**: ±12 dB in each band  
**Input imp.**: 20K ohms  
**Max. input**: 8V  
**Output imp.**: 100 ohms  
**Max. output**: 8V  
**Level contr.**: ±12 dB, -12 dB  
**Features**: EQ bypass switch; tape-monitor switch; compact horizontal format

### NUMARK

**Numark Electronics Corp.**  
503 Raritan Center  
Edison, N.J. 08817

**EQ-2300 Equalizer**

**Price**: $270  
**Dimensions**: 9½H x 12¾W x 3½D  
**Weight**: 6 lbs. 8 oz.  
**Bands**: 10  
**Range**: ±12 dB in each band  
**Input imp.**: 50K ohms  
**Output imp.**: 500 ohms  
**Max. output**: 10V  
**Level contr.**: ±12 dB, -12 dB (insertion gain)  
**Features**: Headphone level control with impedance matching switch; Eq defeat; two overload indicators; linear controls

### OLSON

**Olson Electronics**  
260 S. Forge St.  
Akron, Ohio 44327

**RA-739 Equalizer**

**Price**: $124.95  
**Dimensions**: 3H x 15W x 8D  
**Weight**: 5 lbs.  
**Bands**: 10  
**Range**: ±12 dB in each band  
**Input imp.**: 100K ohms  
**Output imp.**: 8 ohms  
**Level contr.**: ±12 dB, -12 dB (insertion gain)  
**Features**: Rack-mounting front panel

### ONKYO

**Onkyo U.S.A. Corp.**  
42-07 20th Ave.  
Long Island City, N.Y. 11105

**E-30 Equalizer**

**Price**: $530  
**Dimensions**: 3⅛H x 17¼W x 14 9/16D  
**Weight**: 14 lbs. 5 oz.  
**Bands**: 9  
**Range**: ±5/±10 dB in each band  
**Input imp.**: 100K ohms at 1.5V  
**Max. input**: 15V  
**Output imp.**: 600 ohms

### NUMARK

**EQ-2000 Equalizer**  
Price: $120

### OLSON

**Models also available**

#### EQ-1 Graphic Equalizer

**Price**: $300  
**Dimensions**: 3 2/5H x 19W x 9D  
**Bands**: 10 per channel  
**Range**: ±12 dB in each band  
**Input imp.**: 100K ohms  
**Max. input**: 7V  
**Output imp.**: 560 ohms  
**Max. output**: 7V  
**Level contr.**: ±6 dB, -6 dB (insertion gain)  
**Features**: EQ bypass switch; uses gyrator circuitry to eliminate inductors; S/N 100 dB (A-weighted); 0.007% THD (20 Hz to 20 kHz)

**Models also available**

#### EQ-2 Graphic Equalizer  
Price: $200

### NUMARK

**E-30 Equalizer**

**Price**: $395  
**Dimensions**: 5⅛H x 16⅛W x 14D  
**Weight**: 15 lbs. 8 oz.  
**Bands**: 12 per channel  
**Range**: ±10 dB in each band  
**Input imp.**: 50K  
**Output imp.**: 600 ohms  
**Max. output**: 7.5V  
**Features**: Tape monitor provision

### ONKYO

**Models also available**

#### SG-9800 Equalizer  
Price: $345

### PYRAMID

**Pyramid Industries**  
12970-7N Branford St.  
Arleta, Calif. 91331

**E-30 Equalizer**

**Price**: $530  
**Dimensions**: 3¼H x 17¼W x 14 9/16D  
**Weight**: 14 lbs. 5 oz.  
**Bands**: 9  
**Range**: ±5/±10 dB in each band  
**Input imp.**: 100K ohms at 1.5V  
**Max. input**: 15V  
**Output imp.**: 600 ohms

### PHASE LINEAR

**Phase Linear Corp.**  
20121 48th Ave. W.  
Lynnwood, Wash. 98036

**1100 Series Two Parametric Equalizer**

**Price**: $599.95  
**Dimensions**: 5¼H x 19W x 8D  
**Weight**: 9 lbs. 8 oz.  
**Bands**: 9  
**Range**: ±5/±10 dB in each band  
**Input imp.**: 100K ohms  
**Max. input**: 8V  
**Output imp.**: 1 ohm  
**Max. output**: 8V  
**Level contr.**: ±6 dB, -80 dB (insertion gain)  
**Features**: Bandwidth range: 0.18 octaves to 1.0 octaves; frequency range: 9.1; overload LED; bypass switch; tape monitor

### PIONEER

**U.S. Pioneer Electronics Corp.**  
85 Oxford Drive  
Moonachie, N.J. 07074

**SG-9800 Equalizer**  
Price: $395
# High Fidelity's Buying Guide to Stereo Components

## X-SPEC-5 Equalizer
- **Price:** $199.95
- **Dimensions:** $1\frac{1}{2}H \times 7W \times 4\frac{1}{4}D$
- **Weight:** 1 lb. 8 oz.
- **Bands:** 5 per channel
- **Range:** $\pm 12$ dB in each band
- **Input Imp.:** 28 ohms (low); 50K (high)
- **Max. Output Imp.:** 10K
- **Max. Output:** 2.5V
- **Level Contr.:** $+12$ dB; $-12$ dB (insertion gain)
- **Features:** Tape, radio, ten output LEDs, individual front and rear speaker EQ, bi-amp or stereo application

## PME-100 Equalizer
- **Price:** $59.95
- **Dimensions:** $1\frac{1}{4}H \times 5\frac{1}{4}W \times 4\frac{1}{2}D$
- **Weight:** 2 lbs.
- **Bands:** 3 per channel
- **Range:** $\pm 12$ dB in each band
- **Input Imp.:** 28 ohms (low); 50K (high)
- **Max. Output Imp.:** 10K
- **Max. Output:** 2.5 volts
- **Level Contr.:** $+12$ dB; $-12$ dB (insertion gain)
- **Features:** Volume control, bypass switch

## GE-6 Equalizer
- **Price:** $113
- **Dimensions:** 2\frac{1}{4}H \times 2\frac{1}{4}W \times 4\frac{1}{4}D$
- **Features:** Parametric control for each band (adjustable bandwidth and center frequency); peak indicators; relay muting; tape EQ

## 180 Parametric Equalizer
- **Price:** $250
- **Dimensions:** 4\frac{1}{2}H \times 18W \times 3\frac{1}{2}D
- **Weight:** 9 lbs.
- **Bands:** 2
- **Range:** $+16$ dB in each band
- **Input Imp.:** 50K ohms
- **Max. Input:** 9V
- **Output Imp.:** 500 ohms
- **Max. Output:** 9V
- **Level Contr.:** $-40$ dB; $-12$ dB (insertion gain)

## X-7P, $84.95
- **Price:** $79.95
- **Dimensions:** $1\frac{1}{2}H \times 7\frac{1}{2}W \times 4\frac{1}{4}D$
- **Weight:** 2 lbs.
- **Bands:** 3 per channel
- **Range:** $\pm 12$ dB in each band
- **Input Imp.:** 28 ohms (low); 50K (high)
- **Max. Output Imp.:** 10K
- **Max. Output:** 2.5 volts
- **Level Contr.:** $+12$ dB; $-12$ dB (insertion gain)
- **Features:** Volume control, bypass switch

## Models also available
- X-7P, $84.95

## REALISTIC

## Radio Shack

## 1400 One Tandy Center

## Ft. Worth, Tex. 76102

## Frequency Equalizer
- **Price:** $69.95
- **Dimensions:** $4\frac{1}{4}H \times 10\frac{1}{2}W \times 6D$
- **Bands:** 5
- **Range:** $\pm 12$ dB in each band
- **Features:** Individual left and right channel controls

## ROYAL SOUND

## Royal Sound Co.

## 248 Buffalo Ave.

## Freeport, N.Y. 11520

## Models also available
- ROYAL SOUND Equalizer, $195

## RE-2000 Graphic Octave Equalizer
- **Price:** $370
- **Dimensions:** 5\frac{1}{4}H \times 19W \times 13\frac{1}{2}D
- **Features:** Inductorless active discrete resonant circuitry, rack-mount, two tape monitor, full dubbing facility, switches for record/play and complete bypass

## Models also available
- RE-700 Graphic Octave Equalizer, $180

## ROYAL SOUND

## Roland Corp.

## 2401 Saybrook Ave.

## Los Angeles, Calif. 90040

## Models also available
- Roland Corp. M610 Equalizer,

## SRO17 Equalizer
- **Price:** $275
- **Dimensions:** 1\frac{1}{4}H \times 19W \times 8\frac{1}{2}D
- **Weight:** 7 lbs. 13 oz.
- **Bands:** 40
- **Range:** $\pm 15$ dB in each band
- **Input Imp.:** 70K ohms
- **Max. Input:** 6.2V
- **Output Imp.:** 115 ohms (line); 1 ohm (mic); 630 ohms (aux)
- **Max. Output:** 6.2V
- **Level Contr.:** $+15$ dB; $-15$ dB
- **Features:** Rack-mount, additional 20 dB gain

## Models also available
- SRO17 Equalizer,

## SONTEC

## 10120 Marble Court

## Cockeysville, Md. 21030

## HF-230 Equalizer
- **Price:** $990

---

**Features**
- Level contr.: $+0$ dB; $-\infty$ dB
- Input Imp.: $0$ dB; $-20$ dB
- Output Imp.: $600$ ohms (unbalanced)
- Max. Output: $20$ dB
- Level Contr.: $+3$, $+6$, $+12$ dB
- Features: Professional studio model designed for home application; foot switch selects left or right or both; hard-wired in back to external devices that can be patched over; greater than 100 dB S/N ratio
1980 Edition

**SOUNDCASTMEN**

2200 S. Ritchey
Santa Ana, Calif. 92705

**SP-4002 Signal Processor/Preamp/Equalizer**

- **Price:** $699
- **Dimensions:** 5 1/2 H x 19 W x 11 D
- **Weight:** 28 lbs.
- **Bands:** 44 per channel
- **Range:** +138 dB in each band
- **Features:** Includes signal processor/preamp: dual 10-band, +6 dB per octave equalization, zero-gain LED level balancing; infrasonic filtering; +3 dB at 15 Hz, -12 dB per octave roll-off; variable cartridge loading; variable 47K/100 ohm phono impedance; +50 dB phono level adjustment, inputs for moving coil cartridge over 0.28 mV output; two external processing loops; 19" rack-mount brushed aluminum black and silver overlay panels; includes Environmental EQ Test Record and Computone Charts for EQ referencing.

**TG-3044R Equalizer**

- **Price:** $595
- **Dimensions:** 5 1/4 H x 19 W x 11 D
- **Weight:** 28 lbs.
- **Bands:** 44 per channel
- **Range:** +22 dB in each band
- **Input Imp:** 47K
- **Max. Input:** 10V
- **Output Imp:** 600 ohms (balanced), 300 ohms (unbalanced)
- **Max. Output:** 10V
- **Level Contr:** +6 dB; -12 dB
- **Features:** Fifteen bands of third-octave equalization to 1 kHz, 6 bands of alternate thirds to 20 kHz; infrasonic roll-off at 15 Hz; two separate channels with two separate sets of controls: tape and line EQ and tape monitor; zero-gain LED monitoring; employs passive wire-wrap precision controls to eliminate electronic noise or hiss.

**AE-2420R Analyzer-Equalizer**

- **Price:** $499
- **Dimensions:** 5 1/4 H x 19 W x 11 D
- **Weight:** 30 lbs.
- **Bands:** 10 per channel
- **Range:** +22 dB in each band
- **Input Imp:** 47K ohms
- **Max. Input:** 10V
- **Output Imp:** 180 ohms
- **Max. Output:** 10V
- **Level Contr:** +6 dB; -12 dB (insertion gain)
- **Features:** Complete line & tape equalizer plus differential-comparator analyzer; accurate to 0.1 dB with pink-noise generator, mic preamplifier, test record, and computone charts.

**Models also available**

PE-2217R Equalizer, $549; RP-2215R Equalizer, $570; RP-2201-R Equalizer, $299; SE-450 equalizer, $249

**SPECTRA SOUND/CEI**

Consolidated Electronics, Inc.
2245 South West Temple
Salt Lake City, Utah 84115

**1000-B Equalizer**

- **Price:** $459
- **Dimensions:** 3 1/4 H x 19 W x 8 D
- **Weight:** 10 lbs.
- **Bands:** 10
- **Range:** +16 dB in each band
- **Input Imp:** 100K ohms
- **Max. Input:** 18 dBm
- **Output Imp:** 100 ohms
- **Max. Output:** 18 dBm
- **Level Contr:** +15 dB; -15 dB (insertion gain)
- **Features:** LED indicators for each channel; infrasonic filter; rack-mountable; 13V/microsecond slew rate; IM and THD less than 0.008%

**TECHNICS**

Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07094

**SH-9010 Equalizer**

- **Price:** $540
- **Dimensions:** 3 H x 19 W x 14 1/4 D
- **Weight:** 13 lbs.
- **Bands:** 5
- **Range:** +12 dB in each band
- **Input Imp:** 47K
- **Max. Input:** 1V input
- **Output Imp:** 300 ohms
- **Max. Output:** 5V
- **Level Contr:** +80 dB, -0 dB (insertion gain)
- **Features:** "Universal" (parametric) equalizer; each band is center-frequency adjustable relative to +6 octaves (with overlap from band to band) and also bandwidth ("Q") adjustable from 0.5 to 7 (complete range of center-frequency selection is from 20 Hz to 48 kHz); each stereo channel may be equalized independently; mounts on 19" rack.

**Models also available**

SH-8010 Equalizer, $180

**WHITE**

White Instruments, Inc.
P.O. Box 698
Austin, Tex. 78767

**4002 One-Third Octave Active Equalizer**

- **Price:** $780
- **Dimensions:** 3 1/4 H x 18 W x 9 1/2 D
- **Weight:** 11 lbs.
- **Bands:** 77
- **Range:** +10 dB in each band
- **Input Imp:** 40K ohms
- **Max. Input:** 6V
- **Output Imp:** 2 ohms
- **Max. Output:** 6V
- **Features:** Wood end blocks; rack-mountable; available; -90 dBm noise; security cover included; accessory socket to insert optional crossover networks for blamped systems; adjustable high-pass filter

**Models also available**

4100 Stereo Octave Band Active Equalizer, $700; 4220 Octave Band Passive Equalizer, $220
### Headphones

#### AKG
AKG Acoustics
91 McKee Drive
Mahwah, N.J. 07430

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Response</th>
<th>Impedance</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-340</td>
<td>$189</td>
<td>16 Hz to 25 kHz, ± 1 dB</td>
<td>400 ohms</td>
<td>Dynamic/condenser</td>
<td>14 oz.</td>
<td>Dynamic moving-coil, low-frequency transducers; condenser high-frequency transducers; 5 passive diaphragms in each earcup; auto-adjust headband with Cardan® gimbal pivot</td>
</tr>
</tbody>
</table>

#### K-140S
Price $55
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL with 0.63V input
Impedance 600 ohms
THD 1% at 100 dB SPL (1 kHz)
Max. power 200 mV (119 dB SPL)
Design Dynamic moving coil
Weight 9 oz. (with cable and plug)
Features Auto-adjust headband with Cardan® gimbal pivot
Models also available K-240, $85, K-141, $69

#### ATH-1
Price $30
Response 30 Hz to 20 kHz
Sensitivity 93 dB SPL
Impedance 4 to 16 ohms
THD 0.8% at 110 dB SPL (1 kHz)
Design Open-back; dynamic
Weight 7 oz.
Features Moderate noise rejection; fabric-covered earcups; 11½’’ straight cable

#### ATH-3
Price $60
Response 25 Hz to 20 kHz
Sensitivity 94 dB SPL
Impedance 4 to 16 ohms
THD 0.5% at 110 dB SPL (1 kHz)

#### BEYER
Burns Audiotechnics, Inc.
5-05 Burns Ave.
Hicksville, N.Y. 11801

<table>
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<tr>
<th>Model</th>
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<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET-1000</td>
<td>$169.95, $279 with power supply (ET-1000S)</td>
<td>10 Hz to 25 kHz</td>
<td>100 dB SPL with 2V Input</td>
<td>Circumaural seal</td>
<td>13 oz.</td>
<td>Electrostatic when used with N-1000 power supply; sintered-bronze cover plates; broad-padded headband; soft ear cushions; comes with an 8-foot cord</td>
</tr>
</tbody>
</table>

#### DT-220
Price $64.95
Response 20 Hz to 20 kHz
Sensitivity 103 dB SPL with 1 mV input
Impedance 400 ohms
THD 1% at 120 dB SPL (1 kHz)
Max. power 102 mV
Design Circumaural seal
Weight 9 oz.
Features Broad, padded headband
Models also available DT-441, $74.95; DT-440, $64.95

#### DT-302
Price $29.95
Response 20 Hz to 20 kHz
Sensitivity 100 dB SPL with 1 mV input
Impedance 600 ohms
THD 1.5% at 120 dB SPL at 1 kHz
Max. power 240 mV
Design Open-back
Weight 2 oz.
Features Lightweight; soft foam earpads; unbreakable headband, open-air design principle
Models also available DT-441, $74.95; DT-440, $64.95

### AUDIO-TECHNICA
Audio-Tecnica
33 Shiawassee Ave.
Fairlawn, Ohio 44313

<table>
<thead>
<tr>
<th>Model</th>
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<th>Design</th>
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</tr>
</thead>
</table>
| ATH-7 | $150  | 20 Hz to 22 kHz, ± 2 dB | 98 dB SPL | Open-back; Electret Condenser | 7 oz.

#### ATH-7
Price $150
Response 20 Hz to 22 kHz, ± 2 dB
Sensitivity 98 dB SPL
Impedance 4 to 16 ohms
THD 0.25% at 110 dB SPL (1 kHz)
Max. power 114 dB SPL
Design Open-back; Electret Condenser
Weight 7 oz.
Features Moderate noise rejection; fabric-covered earcups; 8¼’’ straight cable; external impedance adapter with speaker/headphone switch; LED program level indicators

#### ATH-3
Price $60
Response 25 Hz to 20 kHz
Sensitivity 94 dB SPL
Impedance 4 to 16 ohms
THD 0.5% at 110 dB SPL (1 kHz)

#### BANG & OLUFSEN
Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Ill. 60007

<table>
<thead>
<tr>
<th>Model</th>
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<th>Impedance</th>
<th>Design</th>
<th>Weight</th>
</tr>
</thead>
</table>
| CE-H  | $85   | 16 Hz to 20 kHz | 8 mW input | Orthodynamic design; "ear control" allows vertical and horizontal adjustment of each earcup | 10.5 oz.

#### CE-H
Price $85
Response 20 Hz to 20 kHz, ± 2 dB
Sensitivity 96 dB SPL with 1 mV input
Impedance 150 ohms
THD 0.25% at 95 dB SPL (1 kHz)
Max. power 3V (120 dB SPL)
Design Orthodynamic constant energy
Weight 10.5 oz.
Features Extra-long leather cord
HERVIC
Hervic Electronics
14225 Ventura Blvd.
Sherman Oaks, Calif. 91423

HP-1
Price $55
Weight 6.7 oz.
Features Low-mass diaphragm; fully-adjustable simulated leather headband

JVC
JVC America
58-75 Queens Midtown Expressway
Maspeth, N.Y. 11378

HM-200E
Price $100
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL with 1 mW input
Impedance 8 ohms
THD 0.3% at 100 dB SPL (1 kHz)
Weight 10.8 oz.
Features Volume-balance controls on each earcup

KOSS
Koss Corp.
4129 North Port Washington Ave.
Milwaukee, Wis. 53212

ESP/10
Price $350
Response 20 Hz to 22 kHz
Sensitivity 100 dB SPL
Impedance 180 ohms
THD 0.38% at 100 dB SPL at 1 kHz
Design Electrostatic
Weight 14 oz.
Features Patented E/10 energizer with dual headset jacks; automatic overload indicators

LAFAYETTE
Lafayette Radio Electronics Corp.
111 Jericho Turnpike
Syosset, N.Y. 11791

F-780 Professional
Price $44.99
Response 20 Hz to 20 kHz
Sensitivity 105 dB SPL with 1 mW
Design Open-air dynamic
Features Separate base and treble speakers in each earpiece

F-700 "Lighthead"
Price $34.99
Response 18 Hz to 22 kHz
Design Open-air dynamic
Features Ultra-thin 25 micron diaphragm; eliminates need for conventional ear cushions

MURA
Mura Corp.
177 Cantiague Rock Road
Westbury, N.Y. 11590

SP-205
Price $60
Response 20 Hz to 20 kHz, ±5 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 8 ohms
THD 1% at 20 mV input
Max. power 400 mW (109 dB SPL)
Weight 21 oz.
Features Slide-type volume and tone control; Mylar speakers; adjustable headband; stereo/mono switch; 15' coil cord; vinyl case included

HB-1500
Price $30
Response 20 Hz to 20 kHz, ±3 dB
Sensitivity 103 dB SPL with 30 mV input
Impedance 50 ohms
THD 1% at 30 mV input
Max. power 200 mV (114 dB SPL)
Weight 6 oz.
Features Adjustable headband; 10' coil cord; super-thin diaphragms

HV-180
Price $30
Response 20 Hz to 16 kHz, ±4 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 16 ohms
THD 0.5% at 20 mV input
Max. power 500 mV (113 dB SPL)
Weight 12 oz.
Features High-velocity, polymer-film diaphragm

HV-100
Price $23
Response 30 Hz to 15 kHz, ±3 dB
Sensitivity 100 dB SPL with 20 mV input
Impedance 16 ohms
THD 0.5% at 20 mV input
Max. power 500 mV (114 dB SPL)
Weight 12 oz.
<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Max. Power</th>
<th>THD</th>
<th>Price</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-800</td>
<td>10 oz.</td>
<td>8 ohms</td>
<td>98 dB SPL with 30 mV input</td>
<td>500 mW</td>
<td>2% at 30 mV input</td>
<td>$60</td>
<td>Adjustable headband; high-velocity; stereo/mono switch; separate volume controls; 10' coil cord</td>
</tr>
<tr>
<td>250</td>
<td>8 oz.</td>
<td>8 ohms</td>
<td>102 dB SPL with 20 mV input</td>
<td>600 mV</td>
<td>2% at 25 mV input</td>
<td>$50</td>
<td>Features</td>
</tr>
<tr>
<td>225</td>
<td>1 oz.</td>
<td>8 ohms</td>
<td>600 mV (113 dB SPL)</td>
<td>10 oz.</td>
<td>8' cord</td>
<td>$36</td>
<td>Features</td>
</tr>
<tr>
<td>208</td>
<td>1 oz.</td>
<td>8 ohms</td>
<td>600 mV (113 dB SPL)</td>
<td>10 oz.</td>
<td>8' cord</td>
<td>$36</td>
<td>Features</td>
</tr>
<tr>
<td>115</td>
<td>1 oz.</td>
<td>8 ohms</td>
<td>600 mV (113 dB SPL)</td>
<td>10 oz.</td>
<td>8' cord</td>
<td>$31</td>
<td>Features</td>
</tr>
<tr>
<td>109</td>
<td>1 oz.</td>
<td>8 ohms</td>
<td>600 mV (113 dB SPL)</td>
<td>10 oz.</td>
<td>8' cord</td>
<td>$27</td>
<td>Features</td>
</tr>
</tbody>
</table>

**PICKERING**

Picking & Co., Inc. 101 Sunnyside Blvd. Plainview, N.Y. 11803

<table>
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<tr>
<th>Model</th>
<th>Price</th>
<th>Features</th>
<th>Weight</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OA-7 Dynaphase</td>
<td>$70</td>
<td>Dynamic high-velocity elements</td>
<td>5.5 oz.</td>
<td>Uses rare earth elements; 10' cord</td>
</tr>
<tr>
<td>OA-3A Dynaphase</td>
<td>$45</td>
<td>Dynamic high-velocity elements</td>
<td>7.5 oz. (without cord)</td>
<td>Special adapter for use with portable radios, TV sets and tape recorders</td>
</tr>
</tbody>
</table>

**NUMARK**

Numark Electronics Corp. 503 Raritan Center Edison, N.J. 08817

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Features</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>HV-3000</td>
<td>$54</td>
<td>Lightweight Samarium cobalt magnet; Neglex no-loss cable included</td>
<td>14 oz.</td>
<td>Circumaural</td>
</tr>
<tr>
<td>HV-235R</td>
<td>$44</td>
<td>Lightweight Samarium cobalt magnet; ported earcups, foam-filled ear cushions</td>
<td>8 oz.</td>
<td>Lightweight</td>
</tr>
<tr>
<td>HV-215VA</td>
<td>$44</td>
<td>Curved Mylar diaphragm; ported earcups, individual volume controls for each side</td>
<td>7 oz.</td>
<td>Lightweight</td>
</tr>
<tr>
<td>HV-115A</td>
<td>$32</td>
<td>15 Hz to 22 kHz Samarium diaphragms, ported earcups, 10' cord</td>
<td>8 oz.</td>
<td>Lightweight</td>
</tr>
</tbody>
</table>

**OLSON**

Olson Electronics 260 S. Forge St. Akron, Ohio 44327

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Features</th>
<th>Weight</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-500</td>
<td>$60.98</td>
<td>Separate woofer and tweeter on each side</td>
<td>10 oz.</td>
<td>Ultra-min</td>
</tr>
</tbody>
</table>

**PIONEER**

U.S. Pioneer Electronics Corp. 85 Oxford Drive Moonachie, N.J. 07074

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
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<th>Weight</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SE-700</td>
<td>$100</td>
<td>High polymer molecular film driver, 9/16' connection cord</td>
<td>2 oz.</td>
<td>Open-back</td>
</tr>
<tr>
<td>SE-505</td>
<td>$75</td>
<td>Volume and tone controls for each channel, 16½' connection cord</td>
<td>2 oz.</td>
<td>Open-back</td>
</tr>
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<td>$75</td>
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<td>2 oz.</td>
<td>Open-back</td>
</tr>
</tbody>
</table>
 mono switch; 10' coiled cable

Features

- Individual level controls; stereo/mono switch; 10' coiled cable

ST-22
Price $29.99
Response 20 Hz to 22 kHz
Sensitivity 110 dB SPL with 1 mW input (1 kHz)
Impedance 8 ohms
Features Individual level controls; stereo/mono switch; 10' coiled cable

ST-16
Price $19.99
Response 20 Hz to 18 kHz
Sensitivity 110 dB SPL (1 kHz)
Impedance 8 ohms
Features Individual level controls; stereo/mono switch; 10' coiled cable

Models also available
ST-33, $36.99

QUADRAFLEX
Quadraflex
1301 65th St.
Emeryville, Calif. 94608

Q-45
Price $54.95
Response 20 Hz to 20 kHz, ±2 dB
Sensitivity 95 dB SPL with 1 mV input
Impedance 80 ohms
THD 1% at 95 dB SPL
Max. power 1.8 V
Design Dynamic
Weight 10 oz.
Features Mylar diaphragms

Q-35
Price $44.95
Response 20 Hz to 20 kHz, ±3.5 dB
Sensitivity 93 dB SPL with 1 mV input
Impedance 122 ohms
THD 1.5% at 95 dB SPL
Max. power 1.5 V
Design Dynamic
Weight 13 oz.
Features Mylar diaphragms, level controls

Models also available
Q-25, $29.95

REALISTIC
Radio Shack
1400 One Tandy Center
Ft. Worth, Tex. 76102

PRO 50
Price $79.95
Response 16 Hz to 20 kHz
Impedance 600 ohms
Weight 10 oz.
Features Dynamic moving-coil transducer with 6 passive diaphragms

PRO-II
Price $50
Response 10 Hz to 22 kHz
Impedance 4 to 16 ohms
Features Mylar diaphragm speakers; 11/2" voice coils, air-filled ear cushions

LV-10
Price $40
Response 20 Hz to 20 kHz
Impedance 4 to 16 ohms
Design Ventied-back
Weight 10 oz.
Features Soft sponge earpieces, 10' coiled cord; less than 0.5% distortion

Models also available
PRO-10, $40; NOVA-30, $25

SAMSUI
Sansui Electronics Corp.
1250 Valley Brook Ave.
Lyndhurst, N.J. 07071

SS-100
Price $118
Response 20 Hz to 20 kHz
Sensitivity 94 dB SPL
Impedance 60 ohms
THD 0.3% at 94 dB SPL
Max. power 250 mW
Design Omnidirectional
Weight 13 oz.
Features Omnim-dynamic; etched voice coil on diaphragm between magnetic plates

SS-80
Price $72
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL
Impedance 200 ohms
Max. power 500 mW
Design Omnidirectional
Weight 17.3 oz.
Features Volume and tone controls

SS-30
Price $30
Response 20 Hz to 20 kHz
Sensitivity 108 dB SPL
Impedance 8 ohms
Max. power 500 mW
Design Omnidirectional
Weight 11.5 oz.
Features Super-lightweight polyester film diaphragm; light, comfortable earpads/band

Models also available
SS-60, $54; SS-40, $42

SENHHIESEI
Senheiser Electronics Corp.
10 West 37th St.
New York, N.Y. 10018

Unipolar 2000
Price $384
Response 16 Hz to 22 kHz
Sensitivity 103 dB SPL with 5,000 mV input
Impedance 8 ohms
THD 0.11% at 110 dB SPL (1 kHz)
Max. power 11.2 V (110 dB SPL)
Design Electret condenser, electrostatic
Weight 1.1 oz.
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-224</td>
<td>$196</td>
<td>16 Hz</td>
<td>96 dB SPL</td>
<td>200 ohms</td>
<td>0.9%</td>
<td>500 mW</td>
<td>Circumaural</td>
<td>8 oz.</td>
<td>Designed for good isolation</td>
</tr>
<tr>
<td>HD-424</td>
<td>$109</td>
<td>15 Hz</td>
<td>102 dB SPL</td>
<td>2 ohms per channel</td>
<td>1% at 126 dB (1 kHz)</td>
<td>100 mW</td>
<td>Open-back</td>
<td>7 oz.</td>
<td></td>
</tr>
<tr>
<td>HD-414</td>
<td>$75</td>
<td>20 Hz</td>
<td>102 dB SPL</td>
<td>2 ohms per channel</td>
<td>Under 1% at 126 dB (1 kHz)</td>
<td>100 mW</td>
<td>Open-back</td>
<td>5 oz.</td>
<td></td>
</tr>
<tr>
<td>HD-400</td>
<td>$44</td>
<td>20 Hz</td>
<td>90 dB SPL</td>
<td>60 ohms per channel</td>
<td>1% at 118 dB SPL</td>
<td>100 mW</td>
<td>Open-back</td>
<td>3 oz.</td>
<td></td>
</tr>
<tr>
<td>Models also available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HD-430, $119, HD-420, $85</td>
</tr>
</tbody>
</table>

**SIGNET**

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signet Co.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33 Shawaassee Avé.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fair Lawn, Ohio</td>
<td>44313</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</table>

**SONY**

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony Industries</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 West 57th St.</td>
<td>New York, N.Y. 10019</td>
<td>$120</td>
<td>20 Hz to 20 kHz</td>
<td>91 dB SPL with 1 V input</td>
<td>90 ohms</td>
<td>THD</td>
<td>0.03% at 4 V input</td>
<td>114 dB SPL</td>
</tr>
</tbody>
</table>

**DYNAFLEX 35**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$45</td>
<td>20 Hz</td>
<td>100 dB SPL</td>
<td>15 ohms</td>
<td>±10%</td>
<td>0.1 watts rms channel</td>
<td>Open-back</td>
<td>5 oz. without 10' cord</td>
<td>Rare-earth elements; soft foam-cushioned headband; specially designed earpiece pivots</td>
</tr>
</tbody>
</table>

**STAX**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20 Hz</td>
<td>110 dB SPL</td>
<td>0.5%</td>
<td>110 dB SPL</td>
<td>0.1 watts rms channel</td>
<td>Open-back</td>
<td>7 oz. without cord</td>
<td>Special adapter plug to connect to portable radio, record players and TV sets</td>
</tr>
</tbody>
</table>

**SR Sigma Earspeaker System**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$450</td>
<td>20 Hz to 25 kHz</td>
<td>95 dB SPL with 4.5V rms input to adapter</td>
<td>35 ohms (adapter box)</td>
<td>0.02% at 1 kHz at 1W</td>
<td>16 oz</td>
<td>Electrostatic</td>
<td>Front-facing elements</td>
<td></td>
</tr>
</tbody>
</table>

**SR-X Mk 3 Earspeaker System**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$300</td>
<td>20 Hz to 25 kHz</td>
<td>95 dB SPL with 1.6V rms input to adapter</td>
<td>35 ohms (adapter box)</td>
<td>0.02% at 1 kHz at 1W</td>
<td>14 oz</td>
<td>Electrostatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SR-44 Earspeaker System**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$120</td>
<td>25 Hz</td>
<td>95 dB SPL</td>
<td>0.02%</td>
<td>1 kHz</td>
<td>8 oz.</td>
<td>Electrostatic</td>
<td>7 oz.</td>
<td>Special adapter plug to connect to portable radio, record players and TV sets</td>
</tr>
</tbody>
</table>

**SUPEREX**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$175</td>
<td>20 Hz to 20 kHz</td>
<td>95 dB SPL with 1.6V rms input to adapter</td>
<td>35 ohms (adapter box)</td>
<td>0.02% at 1 kHz at 1W</td>
<td>8 oz</td>
<td>Electrostatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**STANTON**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$80</td>
<td>20 Hz to 20 kHz</td>
<td>96 dB SPL with 1 mV input</td>
<td>4 to 16 ohms</td>
<td>0.1% at 110 dB SPL</td>
<td>5 oz.</td>
<td>Electrostatic</td>
<td>Designed for good isolation</td>
<td></td>
</tr>
</tbody>
</table>

**STANLEY**

**STANLEY**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$85</td>
<td>20 Hz to 20 kHz</td>
<td>100 dB SPL</td>
<td>110 ohms</td>
<td>0.5% at 100 dB SPL</td>
<td>8 oz.</td>
<td>Electrostatic</td>
<td>Front-facing elements</td>
<td></td>
</tr>
</tbody>
</table>

**SUPEREX**

**SUPEREX**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$97</td>
<td>20 Hz to 20 kHz</td>
<td>95 dB SPL with 1.6V rms input to adapter</td>
<td>35 ohms (adapter box)</td>
<td>0.02% at 1 kHz at 1W</td>
<td>8 oz</td>
<td>Electrostatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**STANTON**

**STANTON**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$85</td>
<td>20 Hz to 20 kHz</td>
<td>95 dB SPL</td>
<td>110 ohms</td>
<td>0.5% at 100 dB SPL</td>
<td>5 oz.</td>
<td>Electrostatic</td>
<td>Designed for good isolation</td>
<td></td>
</tr>
</tbody>
</table>

**STANLEY**

**STANLEY**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$80</td>
<td>20 Hz to 20 kHz</td>
<td>96 dB SPL with 1 mV input</td>
<td>4 to 16 ohms</td>
<td>0.1% at 110 dB SPL</td>
<td>5 oz.</td>
<td>Electrostatic</td>
<td>Designed for good isolation</td>
<td></td>
</tr>
</tbody>
</table>

**STANLEY**

**STANLEY**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$85</td>
<td>20 Hz to 20 kHz</td>
<td>95 dB SPL</td>
<td>110 ohms</td>
<td>0.5% at 100 dB SPL</td>
<td>5 oz.</td>
<td>Electrostatic</td>
<td>Designed for good isolation</td>
<td></td>
</tr>
</tbody>
</table>

**SUPEREX**

**SUPEREX**

<table>
<thead>
<tr>
<th>Price</th>
<th>Response</th>
<th>Sensitivity</th>
<th>Impedance</th>
<th>THD</th>
<th>Max. power</th>
<th>Design</th>
<th>Weight</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$97</td>
<td>20 Hz to 20 kHz</td>
<td>95 dB SPL with 1.6V rms input to adapter</td>
<td>35 ohms (adapter box)</td>
<td>0.02% at 1 kHz at 1W</td>
<td>8 oz</td>
<td>Electrostatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### PRO-B-VI Monitor
- **Price**: $60
- **Response**: 15 Hz to 22 kHz, ±5 dB
- **Impedance**: 4 to 16 ohms
- **THD**: 0.9% at 110 dB SPL (400 Hz)
- **Design**: Around-ear isolation
- **Weight**: 15 oz.
- **Features**: Two-way woofer/tweeter LC crossover design; twin acoustic woofer chambers

### TRL-99
- **Price**: $54.95
- **Response**: 15 Hz to 20 kHz, ±4 dB
- **Sensitivity**: 110 dB SPL with 0.6V input
- **Impedance**: 35 ohms
- **THD**: 0.4% at 110 dB SPL (400 Hz)
- **Design**: On-ear fabric-faced open design
- **Weight**: 10 oz.
- **Features**: Micro-thin Mylar diaphragm drivers

### TRL-3
- **Price**: $44.95
- **Response**: 40 Hz to 20 kHz, ±5 dB
- **Sensitivity**: 100 dB SPL with 6 mW input
- **Impedance**: 80 ohms
- **THD**: 0.6% at 110 dB SPL (400 Hz)
- **Design**: Open-air with low-frequency acoustic compensation
- **Weight**: 8.5 oz.
- **Features**: Acoustically equalized Mylar drivers to regain low end usually lost in open designs; replaceable foam cushions

Models also available
- **TRL-88**: $49.95

### TOSHIBA
**Toshiba America, Inc.**
**280 Park Ave.**
**New York, N.Y. 10017**

#### HR-811
- **Price**: $75
- **Response**: 20 Hz to 30 kHz
- **Sensitivity**: 101 dB SPL with 3V input
- **Impedance**: 8 ohms
- **THD**: 0.5% at 101 dB SPL (400 Hz)
- **Design**: "Complimentary Back" electret
- **Weight**: 8 oz.
- **Features**: "Complimentary Back" electret full-face drive system with ultra-thin 2.5 micron diaphragm

### YAMAHA
**Yamaha International Corp.**
**6600 Orangethorpe**
**Buena Park, Calif. 90620**

#### YH-1000
- **Price**: $220
- **Response**: 20 Hz to 20 kHz
- **Impedance**: 100 ohms
- **THD**: 0.1% at 90 dB SPL
- **Max. power**: 103 dB mV
- **Design**: Orthodynamic, supra-aural
- **Weight**: 9 oz.
- **Features**: 2-inch rare earth cobalt magnet; 2-inch polyester diaphragm; lockable high-adjustment sliders

#### YH-1
- **Price**: $65
- **Response**: 20 Hz to 20 kHz
- **Impedance**: 150 ohms
- **THD**: 0.3% at 90 dB SPL
- **Max. power**: 94 mW
- **Design**: Orthodynamic, supra-aural
- **Weight**: 7 oz.

#### YH-2
- **Price**: $50
- **Response**: 20 Hz to 20 kHz
- **Impedance**: 150 ohms
- **THD**: 0.3% at 90 dB SPL
- **Max. power**: 93 mW
- **Design**: Orthodynamic, supra-aural
- **Weight**: 7 oz.

#### YH-3
- **Price**: $35
- **Response**: 20 Hz to 20 kHz
- **Impedance**: 150 ohms
- **THD**: 0.3% at 90 dB SPL
- **Max. power**: 93 mW
- **Design**: Orthodynamic, supra-aural
- **Weight**: 8 oz.

---

**A Note on Prices**
Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.
### Microphones

**AKG**

**AKG Acoustics**  
91 McKee Drive  
Mahwah, N.J. 07430

<table>
<thead>
<tr>
<th>C-424</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$2,000</td>
</tr>
<tr>
<td>Pattern</td>
<td>Cardioid Four</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser, two dual diaphragms</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-43.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Large-diaphragm Quadrophonic with FET preamplifier, 3-position pre-attenuator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C-422</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$1,900</td>
</tr>
<tr>
<td>Pattern</td>
<td>Nine variable patterns</td>
</tr>
<tr>
<td>Transducer</td>
<td>Double-diaphragm condenser</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-43.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Large-diaphragm stereo mic with FET preamplifier, remote pattern selector, aiming LEDs, 3-position pre-attenuator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C-33</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$775</td>
</tr>
<tr>
<td>Pattern</td>
<td>Double cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser (2)</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-43.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Small-diaphragm, FET preamplifier</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C-414EB</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$675</td>
</tr>
<tr>
<td>Pattern</td>
<td>Four variable patterns</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser: dual diaphragm</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-43.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Large-diaphragm; FET preamplifier, 3-position attenuator, 3-position bass roll-off</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C-451E Combo Design</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Price</td>
<td>$295</td>
</tr>
<tr>
<td>Pattern</td>
<td>Cardioid capsule</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-39.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Modular mic system, 8 interchangeable capsules and 3 different preamps; available in black or nickel finish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D-900E</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$240</td>
</tr>
<tr>
<td>Pattern</td>
<td>Shotgun-supercardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>60 Hz to 12 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-49.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Three-position bass roll-off, available as complete system with various accessories at $455</td>
</tr>
</tbody>
</table>

### Buying Guide to Stereo Components

For recording and broadcast; in-stock at $455

<table>
<thead>
<tr>
<th>D-222EB</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$195</td>
</tr>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Two-way dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 18 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-55.5 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Dual-transducer design; bass roll-off, complete with stand adapter and case</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D-190SPL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$188</td>
</tr>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-52 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Kit; includes two D-190E mics, two stand adapters, two table stands, two cables, and cases; available in high impedance as D-190SPL at $206</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C-505E</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$155</td>
</tr>
<tr>
<td>Pattern</td>
<td>Cardioid capsule</td>
</tr>
<tr>
<td>Transducer</td>
<td>Electret condenser</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-48 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Modular mic system; 4 optional capsules available, built-in windscreen; includes power-line module, battery, stand adapter, and case</td>
</tr>
</tbody>
</table>

### D-320B

| Price | $145 |
| Pattern | Cardioid |
| Transducer | Dynamic |
| Response | 80 Hz to 16 kHz |
| Output | 128 dB SPL |
| Impedance | 200 ohms |
| Features | Integral ball-head wire-mesh windscreen; two-position equalization and off switch; includes stand adapter and case |

### D-170E

| Price | $125 |
| Pattern | Supercardioid |
| Transducer | Dynamic |
| Response | 50 Hz to 15 kHz |
| Output | -53.5 dBm re 94 dB SPL |
| Impedance | 200 ohms |
| Features | Ball-head wire-mesh windscreen; antifeedback mic, includes stand adapter and case |

### D-200E1

| Price | $125 |
| Pattern | Cardioid |
| Transducer | Two-way dynamic |
| Response | 30 Hz to 15 kHz |
| Output | -56 dBm re 94 dB SPL |
| Impedance | 200 ohms |
| Features | Dual-transducer design, includes stand adapter and case |

### D-310

| Price | $110 |
| Pattern | Cardioid |
| Transducer | Dynamic |
| Response | 80 Hz to 18 kHz |
| Output | 128 dB SPL |
| Impedance | 200 ohms |
| Features | Rugged construction with 3-position equalization switch, includes stand adapter and case |

### D-1000E

| Price | $100 |
| Pattern | Cardioid |
| Transducer | Dynamic |
| Response | 40 Hz to 17 kHz |
| Output | -52 dBm re 94 dB SPL |
| Impedance | 200 ohms |
| Features | Rugged construction with 3-position equalization switch, includes stand adapter and case |

### D-160E1

| Price | $88 |
| Pattern | Omnidirectional |
| Transducer | Dynamic |
| Response | 40 Hz to 20 kHz |
| Output | -58 dBm re 94 dB SPL |
| Impedance | 250 ohms |
| Features | For recording and broadcast; includes windscreen, stand adapter, and case |
| Models also available |  |
|-----------------------|--|---|
| AT-813, AT-802, AT-801, AT-809 |  |

**AUDIOTECHNICA**

Audio Technica Co.

33 Shawassee Ave.

Fairlawn, Ohio 44313

**AT-814**

<table>
<thead>
<tr>
<th>Price</th>
<th>$115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Moving-coil dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 16 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-56 dBm</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>No switch; 16½' cable with ¼&quot; phone plug or XLR</td>
</tr>
</tbody>
</table>

**AT-812**

<table>
<thead>
<tr>
<th>Price</th>
<th>$95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Moving-coil dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 18 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-60 dBm</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Recessed on/off switch; 16½&quot; cable with ¼&quot; phone plug or XLR</td>
</tr>
</tbody>
</table>

**AT-811**

<table>
<thead>
<tr>
<th>Price</th>
<th>$85</th>
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</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Electret condenser</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-56 dBm</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Recessed on/off switch; 16½&quot; cable with ¼&quot; phone plug or XLR</td>
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</table>

**AT-803S**

<table>
<thead>
<tr>
<th>Price</th>
<th>$85</th>
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</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Subminiature electret condenser</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-57 dBm</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Battery and recessed on/off switch on belt clip; 25' small diameter cable with 1/4&quot; phone plug or XLR</td>
</tr>
</tbody>
</table>

**AT-816/2 Recording Microphone Pair**

<table>
<thead>
<tr>
<th>Price</th>
<th>$60/pr.</th>
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</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-60 dBm (0 dB = 1 mW/10 dynes/cm²)</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Stereo pair with desk stands; integrated 13' cable with ¼&quot; phone plugs; on/off switch</td>
</tr>
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</table>

**AT-805S**

<table>
<thead>
<tr>
<th>Price</th>
<th>$50</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Miniature electret condenser</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-57 dBm</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Built-in switch; belt clip</td>
</tr>
</tbody>
</table>

**Models also available**

- AT-813, AT-802, AT-801, AT-809

**CERWIN-VEGA**

Cerwin-Vega, Inc.

12250 Montague St.

Arleta, Calif. 91331

**OE-1**

<table>
<thead>
<tr>
<th>Price</th>
<th>$125</th>
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</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Electret</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-70 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Impedance switch</td>
</tr>
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</table>

**ELECTRO-VOICE**

Electro-Voice, Inc.

600 Cecil St.

Buchanan, Mich. 49107

**RE-20**

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic Variable-D²</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 18 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>57 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>50/150/250 ohms (switchable)</td>
</tr>
<tr>
<td>Features</td>
<td>Wide-range response; Variable-D² design eliminates proximity effect; built-in pop filter; 2-year unconditional warranty</td>
</tr>
</tbody>
</table>

**CO-15P**

<table>
<thead>
<tr>
<th>Price</th>
<th>$255</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
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<tr>
<td>Transducer</td>
<td>Condenser</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>49 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>150 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Wide-range response; 2-year unconditional warranty; requires 8-50 VDC via phantom power method</td>
</tr>
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</table>

**RE-55**

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>40 Hz to 20 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>57 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>150 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Wide-range response; may be used as secondary lab standard; 2-year unconditional warranty</td>
</tr>
</tbody>
</table>

**RE-18**

<table>
<thead>
<tr>
<th>Price</th>
<th>$225</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
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<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 16 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>500 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Matched stereo pair with attached cables, two table stands; mic clips</td>
</tr>
</tbody>
</table>

**UD-1**

<table>
<thead>
<tr>
<th>Price</th>
<th>$100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>70 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-73 dBm re 94 dB SPL</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Built-in pop filter</td>
</tr>
</tbody>
</table>

**BEOYER**

Burs Audiotronics, Inc.

5-05 Burns Ave.

Hicksville, N.Y. 11801

**M-818**

<table>
<thead>
<tr>
<th>Price</th>
<th>$149.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 16 kHz</td>
</tr>
<tr>
<td>Needle</td>
<td>Hypercardioid</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Rugged enough for field use; includes stand adapter and case</td>
</tr>
</tbody>
</table>

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1980 Edition
**Transducer**

- **Output**: Shock-mounted; Variable-D® design eliminates proximity effect; built-in blast filter; 2-year unconditional warranty

**RE-10**

- **Price**: $127.50
- **Pattern**: Super cardioid
- **Transducer**: Dynamic Variable-D®
- **Response**: 80 Hz to 15 kHz
- **Output**: 57 dB re 94 dB SPL
- **Impedance**: 150 ohms
- **Features**: Rugged construction; 2-year unconditional warranty

**DO-54**

- **Price**: $122.50
- **Pattern**: Omnidirectional
- **Transducer**: Dynamic
- **Response**: 60 Hz to 18 kHz
- **Output**: 58 dB re 94 dB SPL
- **Impedance**: 150 ohms
- **Features**: Microphone; 10' detachable cable, XLR connector

**M-30**

- **Price**: $14
- **Pattern**: Cardioid
- **Transducer**: Condenser Single-D
- **Response**: 60 Hz to 18 kHz
- **Output**: 50 dB re 94 dB SPL
- **Impedance**: 150 ohms
- **Features**: Electret; 16' heavy-duty cable, XLR connector

**M-102**

- **Price**: $39.99
- **Pattern**: Omnidirectional
- **Transducer**: Dynamic
- **Response**: 50 Hz to 13 kHz
- **Output**: 58 dBm
- **Impedance**: 600 ohms
- **Features**: Stereo microphone

**635A**

- **Price**: $69.75
- **Pattern**: Omnidirectional
- **Transducer**: Dynamic
- **Response**: 80 Hz to 13 kHz
- **Output**: 55 dBm re 94 dB SPL
- **Impedance**: 150 ohms
- **Features**: Rugged construction; 2-year unconditional warranty

**Models also available**

- **CS-15P**: $237, RE-15, $202; DS-35, $115.50; RE-85, $106.50; 660, $82.75; 631B, $60.75

**JVC**

- **U.S. JVC Corp.**
- **58-75 Queens Midtown Expressway**
- **Maspeth, N.Y. 11378**

**M-510**

- **Price**: $190
- **Pattern**: Super-directional/unidirectional
- **Transducer**: Electret
- **Response**: 40 Hz to 20 kHz
- **Output**: -68 dBm / -71 dBm
- **Impedance**: 600 ohms
- **Features**: Unidirectional capsule

**HM-200E**

- **Price**: $100
- **Pattern**: Binaural
- **Transducer**: Electret
- **Response**: 40 Hz to 18 kHz
- **Impedance**: 600 ohms

**M-201**

- **Price**: $60
- **Pattern**: Unidirectional
- **Transducer**: Electret
- **Response**: 40 Hz to 18 kHz
- **Output**: -71 dBm
- **Impedance**: 600 ohms
- **Features**: Stereo microphone

**LAFAYETTE**

- **Lafayette Electronics**
- **111 Jericho Turnpike**
- **Syosset, N.Y. 11791**

**MO-102**

- **Price**: $39.99
- **Pattern**: Omnidirectional
- **Transducer**: Dynamic
- **Response**: 50 Hz to 13 kHz
- **Output**: 58 dBm
- **Impedance**: 600 ohms
- **Features**: Stereo microphone

**MU-101**

- **Price**: $37.99
- **Pattern**: Unidirectional
- **Transducer**: Dynamic
- **Response**: 200 Hz to 10 kHz
- **Output**: -56 dBm
- **Impedance**: 600 ohms
- **Features**: On/off switch, Switchcraft connector, 15' cable

**99-46427**

- **Price**: $37.99
- **Pattern**: Unidirectional cardioid
- **Transducer**: Electret condenser
- **Response**: 30 Hz to 16 kHz
- **Output**: -70 dBm
- **Impedance**: 600 ohms
- **Features**: Windscreen; tri-pod desk stand; floor-stand adapter; 1/4" phone plug, 20' cable

**MARLBORO**

- **Marlboro Sound Works**
- **Div. of M.I.C.A.**
- **170 Eileen Way**
- **Syosset, N.Y. 11791**

**M-900**

- **Price**: $99
- **Pattern**: Cardioid
- **Transducer**: Magnetic
- **Response**: 50 Hz to 17 kHz
- **Output**: -74 dBm (low), -58 dBm (high)
- **Impedance**: 200 ohms (low); 20K ohms (high)
- **Features**: Impedance selectable inside mike with simple connector, 16' heavy-duty cable, XLR connector

**M-200**

- **Price**: $31
- **Pattern**: Cardioid
- **Transducer**: Condenser Single-D
- **Response**: 60 Hz to 18 kHz
- **Output**: 60 dBm
- **Impedance**: 50K ohms
- **Features**: Ten-foot heavy-duty cable with phone plug attached

**M-50**

- **Price**: $21
- **Pattern**: Cardioid
- **Transducer**: Magnetic
- **Response**: 60 Hz to 13 kHz
- **Output**: -61 dBm
- **Impedance**: 50K ohms
- **Features**: Ten-foot cable with phone plug

**M-30**

- **Price**: $14
- **Pattern**: Cardioid
- **Transducer**: Condenser Single-D
- **Response**: 70 Hz to 12 kHz
- **Output**: -56 dBm
- **Impedance**: 50K ohms
- **Features**: Ten-foot cable with phone plug

**Models also available**

- **M-400, $49; M-300, $42**

**NAKAMICHI**

- **Nakamichi USA Corp.**
- **1101 Colorado Ave.**
- **Santa Monica, Calif. 90401**

**CM-1000**

- **Price**: $355
- **Pattern**: Cardioid
- **Transducer**: Condenser
- **Response**: 20 Hz to 20 kHz, ±2.5 dB
- **Output**: -45 dBm re 94 dB SPL (10 microbars)
- **Impedance**: 600 ohms
- **Features**: Gold-metalized polyester-film diaphragm; optional CP-102 super-omnidirectional capsule, $125; power supply in separate housing with ~10 dB/-20 dB attenuator switch and proximity-effect switch

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**High Fidelity's Buying Guide to Stereo Components**

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<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM-1000</td>
<td>$245</td>
<td>Cardioid</td>
<td>Moving-coil dynamic</td>
<td>30 Hz to 18 kHz, +2.5 dB</td>
<td>-54 dBm re 94 dB SPL (10 microbars)</td>
<td>250 ohms</td>
<td>Triple-layer windscreen, double-construction casing reduces mechanical noise pickup for hand-held use; hum-canceling coils</td>
</tr>
<tr>
<td>DM-500</td>
<td>$85</td>
<td>Super-omni</td>
<td>Electret condenser</td>
<td>20 Hz to 18 kHz, +3.5 dB</td>
<td>-53 dBm re 94 dB SPL (10 microbars)</td>
<td>250 ohms</td>
<td>Miniature mic with tie clip; detachable foam windscreen for outdoor use</td>
</tr>
<tr>
<td>CM-100</td>
<td>$85</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>30 Hz to 18 kHz, +3.5 dB</td>
<td>-54 dBm re 94 dB SPL (10 microbars)</td>
<td>200 ohms</td>
<td>Integral windscreen; shock-mounting case; high front-to-rear ratio</td>
</tr>
</tbody>
</table>

**NUMARK**

**NUMARK Electronics Corp.**

503 Raritan Center

Edison, N.J. 08817

**UD-985**

<table>
<thead>
<tr>
<th>Price</th>
<th>$110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Unidirectional</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 16 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Balanced line cable; XLR connectors to phone plug; -73 dB sensitivity at 1 kHz</td>
</tr>
</tbody>
</table>

**UD-975**

<table>
<thead>
<tr>
<th>Price</th>
<th>$99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Unidirectional</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic cardioid</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 16 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Balanced line cable; XLR connectors to phone plug; -73 dB sensitivity at 1 kHz; voice and music selection switch</td>
</tr>
</tbody>
</table>

**OLSON**

**Olson Electronics**

260 S. Forge St.

Akron, Ohio 44327

**MK-105**

<table>
<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Pattern</td>
<td>Omnidirectional</td>
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<tr>
<td>Transducer</td>
<td>Electret</td>
</tr>
<tr>
<td>Response</td>
<td>20 Hz to 12 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>70 dB</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Ultra-minature lavalier; FET preamp; 16' cable with 1/4&quot; phone plug</td>
</tr>
</tbody>
</table>

**REALISTIC**

Radio Shack

1400 One Tandy Center

Ft. Worth, Tex. 76102

**33-3922**

<table>
<thead>
<tr>
<th>Price</th>
<th>$59.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Cardioid</td>
</tr>
<tr>
<td>Transducer</td>
<td>Dynamic</td>
</tr>
<tr>
<td>Response</td>
<td>80 Hz to 15 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-76 dB re 74 dB SPL (1V)</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Selectable for flat response from close or distant source</td>
</tr>
</tbody>
</table>

**33-1059**

<table>
<thead>
<tr>
<th>Price</th>
<th>$39.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Dual pattern uni-omni</td>
</tr>
<tr>
<td>Transducer</td>
<td>Electret</td>
</tr>
<tr>
<td>Response</td>
<td>50 Hz to 13 kHz</td>
</tr>
<tr>
<td>Output</td>
<td>-71 dBm re 74 dB SPL (1V)</td>
</tr>
<tr>
<td>Impedance</td>
<td>600 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Selectable directivity pattern</td>
</tr>
</tbody>
</table>

**Models also available**

UC-965, $85; UC-945, $79.95

**PML**

Ercona Corp.

2492 Merrick Road

Bellmore, N.Y. 11710

**ST-8**

<table>
<thead>
<tr>
<th>Price</th>
<th>$1,495</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Variable from omni, through cardioid, to figure-eight</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms</td>
</tr>
<tr>
<td>Features</td>
<td>Stereo</td>
</tr>
</tbody>
</table>

**DC-63**

<table>
<thead>
<tr>
<th>Price</th>
<th>$740</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pattern</td>
<td>Variable; 44 distinct directional patterns</td>
</tr>
<tr>
<td>Transducer</td>
<td>Condenser</td>
</tr>
<tr>
<td>Response</td>
<td>30 Hz to 20 kHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>200 ohms balanced</td>
</tr>
<tr>
<td>Features</td>
<td>Symms-phantom powered with easy operating switches</td>
</tr>
</tbody>
</table>

**Models also available**

DC-73, $299; DC-21, $230
### SHURE

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM56</td>
<td>$138</td>
<td>Cardioid</td>
<td>Dynamic</td>
<td>50 Hz to 15 kHz</td>
<td>$-57 dBm re 94 dB SPL</td>
<td>38/150 ohms</td>
<td>Built-in shock-mount; built-in pop/wind filter; popular hand-held broadcast mic</td>
</tr>
<tr>
<td>SM57</td>
<td>$100</td>
<td>Cardioid</td>
<td>Dynamic</td>
<td>50 Hz to 14 kHz</td>
<td>$-56 dBm re 94 dB SPL</td>
<td>300 ohms</td>
<td>Built-in shock-mount; built-in pop/wind filter; popular hand-held broadcast mic</td>
</tr>
<tr>
<td>SM58</td>
<td>$285</td>
<td>Cardioid</td>
<td>Dynamic</td>
<td>20 Hz to 15 kHz</td>
<td>$-61 dBm re 94 dB SPL</td>
<td>150 ohms</td>
<td>Mechano-pneumatic shock-mount; hand-held vocal mic; optimized presence peak and proximity effect</td>
</tr>
</tbody>
</table>

### ECM-64P

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM-33F</td>
<td>$185</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>20 Hz to 20 kHz</td>
<td>$-54 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Rubber grommet eliminates touch noises, double windscreen; phantom power or battery power; battery-saver switch shuts mic off when connector is unplugged; carrying case; mic holder; mic cable</td>
</tr>
</tbody>
</table>

### SANSUI

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM-200</td>
<td>$750</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$38 dB (12.6 mV) re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-201</td>
<td>$150</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$48 dB (4 mV) re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-202</td>
<td>$200</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$57 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-203</td>
<td>$250</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-56 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
</tbody>
</table>

### SONY

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM-204</td>
<td>$300</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-57 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-205</td>
<td>$350</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-58 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-206</td>
<td>$400</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-59 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-207</td>
<td>$450</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-60 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
</tbody>
</table>

### SEMI PRO/CONSUMER SERIES

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM-208</td>
<td>$500</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-61 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-209</td>
<td>$550</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-62 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-210</td>
<td>$600</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-63 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>SM-211</td>
<td>$650</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-64 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
</tbody>
</table>

### F-650

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM-1000</td>
<td>$500</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-65 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-1010</td>
<td>$550</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-66 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-1020</td>
<td>$600</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-67 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-1030</td>
<td>$650</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-68 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
</tbody>
</table>

### ECM-150M

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
<th>Pattern</th>
<th>Transducer</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM-150M</td>
<td>$85</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-70 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-151M</td>
<td>$90</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-71 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-152M</td>
<td>$95</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-72 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
<tr>
<td>ECM-153M</td>
<td>$100</td>
<td>Cardioid</td>
<td>Electret condenser</td>
<td>40 Hz to 15 kHz</td>
<td>$-73 dBm re 94 dB SPL</td>
<td>250 ohms</td>
<td>Low-cut switch; XLR connector; balanced output</td>
</tr>
</tbody>
</table>

### High Fidelity's Buying Guide to Stereo Components

- **Output-60 dBm re 94 dB SPL**
- **222 Hartrey Ave.**
- **SHURE**
- **204 High Fidelity's Buying Guide to Stereo Components**
- **Response**
- **Transducer**
- **Pattern**
- **Price**
- **Impedance**
- **Features**
<table>
<thead>
<tr>
<th>Transducer</th>
<th>Pattern</th>
<th>Price</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-500S</td>
<td>Dynamic</td>
<td>$24</td>
<td>60 Hz to 12 kHz</td>
<td>58 dB (1.2 mV) re 94 dB SPL</td>
<td>320 ohms</td>
<td>Dual plugs for connection to recorder with start/stop capability; start/stop switch on mic body; mic holder</td>
</tr>
</tbody>
</table>

**Models also available**

- **EC-15P**, $80
- **EC-5**, $38
- **EC-3**, $24

---

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Pattern</th>
<th>Price</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-1</td>
<td>Dynamic</td>
<td>$16</td>
<td>60 Hz to 15 kHz</td>
<td>58 dB (1.2 mV) re 94 dB SPL</td>
<td>320 ohms</td>
<td>Remote stop/start switch; desk stand; windscreen</td>
</tr>
</tbody>
</table>

**Models also available**

- **EC-15P**, $80
- **EC-5**, $38
- **EC-3**, $24

---

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Pattern</th>
<th>Price</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-3S</td>
<td>Cardioid</td>
<td>$28</td>
<td>80 Hz to 12 kHz</td>
<td>58 dB (1.2 mV) re 94 dB SPL</td>
<td>320 ohms</td>
<td>Remote stop/start switch; desk stand; windscreen</td>
</tr>
</tbody>
</table>

**Models also available**

- **EC-15P**, $80
- **EC-5**, $38
- **EC-3**, $24

---

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Pattern</th>
<th>Price</th>
<th>Response</th>
<th>Output</th>
<th>Impedance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-9P</td>
<td>Cardioid</td>
<td>$100</td>
<td>80 Hz to 12 kHz</td>
<td>58 dB (1.2 mV) re 94 dB SPL</td>
<td>320 ohms</td>
<td>Remote stop/start switch; desk stand; windscreen</td>
</tr>
</tbody>
</table>

**Models also available**

- **EC-15P**, $80
- **EC-5**, $38
- **EC-3**, $24

---

**TECHNICS**

Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07094

**RP-3540E**

- **Price**: $70
- **Pattern**: Cardioid
- **Transducer**: Electret-condenser
- **Response**: 40 Hz to 14 kHz
- **Impedance**: 600 ohms
- **Features**: Stand; mic holder; ¼" adapter; windscreen; good in vocal applications

---

**RP-3500E**

- **Price**: $60
- **Pattern**: Stereo cardioid
- **Transducer**: Electret-condenser
- **Response**: 50 Hz to 12 kHz
- **Impedance**: 600 ohms
- **Features**: Stand; mic holder; ¼" adapter; 160 degrees stereo separation

---

**RP-3210E**

- **Price**: $30
- **Pattern**: Cardioid
- **Transducer**: Dynamic
- **Response**: 50 Hz to 12 kHz
- **Impedance**: 400 ohms
- **Features**: Stand; mic holder; ⅜" adapter; windscreen, instrumental, general-purpose use

---

**TURNER**

Turner Div.
Conrac Corp.
716 Oakland Rd., N.E.
Cedar Rapids, Iowa 52402

**SE-13**

- **Price**: $90
- **Pattern**: Cardioid
- **Transducer**: Dynamic
- **Response**: 50 Hz to 15 kHz
- **Output**: 77 dBm
- **Impedance**: 150 ohms
- **Features**: Ball screen

---

**SE-11**

- **Price**: $90
- **Pattern**: Cardioid
- **Transducer**: Dynamic
- **Response**: 50 Hz to 15 kHz
- **Output**: 77 dBm
- **Impedance**: 150 ohms

---

**2760**

- **Price**: $47
- **Pattern**: Omnidirectional
- **Transducer**: Dynamic
- **Response**: 50 Hz to 15 kHz
- **Output**: -56 dBm
- **Impedance**: 150 ohms
## Radio/Tape Players & Tape Players

**Altus Corp.**
6 Main St.
Melrose, Mass. 02176

### High Fidelity's Buying Guide to Stereo

#### CLA-3740 Radio/Tape Player
- **Price**: $249.95
- **Dimensions**: 1¾H x 7W x 5 3/20D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: Yes
- **Fast-forward**: Yes
- **Rewind**: Yes
- **R/P resp.**: 30 Hz to 10 kHz
- **S/N**: 55 dB (w/o NR)
- **Output**: 5 watts (7 dBW) per channel continuous into 4 ohms from 30 Hz to 15 kHz
- **RADIO**
  - **Format**: Stereo
  - **Loc/Dst sw.**: Yes
  - **AFC**: Yes
  - **St/Mono sw.**: Yes
  - **Dig. readout**: No
- **Features**: DIN standard nosepiece

#### B.I.C. Radio/Tape Player
- **Price**: $229.95
- **Dimensions**: 2¾H x 6½W x 8D
- **Mounting**: Under dash
- **Format**: Cassette
- **Auto reverse**: No
- **Rewind**: Yes
- **Controls**: Bass, treble
- **Noise red.**: Dolby
- **R/P resp.**: 35 Hz to 15 kHz, ±3 dB at 1kHz; ±20 Hz to 20 kHz, ±3 dB at 3kHz (playback only)
- **S/N**: 58 dB (w/NR)/58 dB (w/o NR)
- **THD**: 1.1% (1 watt at 1kHz)
- **Output**: 12 watts (10.75 dBW) per channel continuous into 4 ohms from 50 Hz to 16 kHz with no more than 1% THD
- **RADIO**
  - **Features**: Two speeds (1½ ips, ¾ ips)

#### B.L.A.U.P.U.N.K.T.
- **Robert Bosch Corp.**
  - **2800 S. 25th Ave.
  - **Broadview, Ill. 60153**

#### B.L.A.U.P.U.N.K.T. Two-speed Tape Player
- **Price**: $239.60
- **Dimensions**: 1¾H x 6½W x 6½D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: No
- **Rewind**: Yes
- **Controls**: Bass, treble
- **Noise red.**: Dolby
- **R/P resp.**: 35 Hz to 15 kHz, ±3 dB at 1kHz; ±20 Hz to 20 kHz, ±3 dB at 3kHz (playback only)
- **S/N**: 58 dB (w/NR)/58 dB (w/o NR)
- **THD**: 1.1% (1 watt at 1kHz)
- **Output**: 12 watts (10.75 dBW) per channel continuous into 4 ohms from 50 Hz to 16 kHz with no more than 1% THD
- **RADIO**
  - **Features**: Two speeds (1½ ips, ¾ ips)

###Models also available

- **ELR-3742 Radio/Tape Player**, $383.95; **CTH-2392 Radio/Tape Player**, $312.95
- **BLAUPUNKT Radio/Tape Player**, $350.90
- **CR-2001 Radio/Tape Player**, $350.90
- **Essen-Crus Radio/Tape Player**, $277
- **B.L.A.U.P.U.N.K.T. Two-speed Tape Player**, $239.60
- **B.L.A.U.P.U.N.K.T. Two-speed Tape Player**, $239.60
- **B.L.A.U.P.U.N.K.T. Two-speed Tape Player**, $239.60
THD: 1%
THD ref. lvel: 1 kHz, 10 dB
Output: 7.5 watts (8.75 dBW) per channel continuous into 4 ohms from 35 Hz to 14 kHz with no more than 1% THD

RADIO
Format: Stereo
FM sens.: 0.09 microvolts for 50 dB quieting
Selectivity: 6 dB
Loc/Dst sw.: Yes
AFC: Yes
St/Mono sw.: No
Dig. readout: No
Features: Adjustable shafts; program select

Models also available

BOMAN
Boman Industries
9300 Hall Road
Downey, Calif. 90241

Mach 90 Radio/Tape Player
Price: $499.95
Mounting: In dash
Format: Cassette
AFC: Yes
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Noise red.: Dolby
Output: 30 watts (14.75 dBW) per channel
RADIO
Loc/Dst sw.: Yes
FM sens.: 1.5 microvolts for 50 dB quieting
Noise red.: 70 dB
Loc/Dst sw.: Yes
AFC: Yes
St/Mono sw.: Yes
Dig. readout: Yes
Features: Includes graphic equalizer and digital clock, frequency scan/seek control

Mach 50 Radio/Tape Player
Price: $319.95
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Noise red.: Dolby
Output: 30 watts (14.75 dBW) per channel
RADIO
Loc/Dst sw.: Yes
Features: FM electronic interference noise suppressor; front-to-rear fader

SS-1490 Radio/Tape Player
Price: $239.95
Mounting: In dash
Format: Cassette
Fast-forward: Yes
RADIO
Format: Stereo
Loc/Dst sw.: Yes

SS-1280 Radio/Tape Player
Price: $329.95
Mounting: In dash
Format: 8-track
RADIO
Format: Stereo
Loc/Dst sw.: Yes
St/Mono sw.: Yes
Features: Same as Model SS-1260

SS-1457 Radio/Tape Player
Price: $199.95
Mounting: In dash
Format: Stereo
Loc/Dst sw.: Yes
St/Mono sw.: Yes
Features: Front-to-rear fader

SS-1260 Radio/Tape Player
Price: $199.95
Mounting: In dash
Format: Stereo
Loc/Dst sw.: Yes
St/Mono sw.: Yes

SS-1450 Radio/Tape Player
Price: $139.95
Mounting: In dash
Format: Cassette
Fast-forward: Yes
RADIO
Format: Stereo
Loc/Dst sw.: Yes
St/Mono sw.: Yes

BM-1312 Tape Player
Price: $49.95
Mounting: Under dash
Format: Cassette
Features: Side-loading; slide balance control

AP-16 Tape Player
Price: $38.95
Mounting: Under dash
Format: 8-track
Features: High/low tone control; separate slide volume controls for left/right speakers

Models also available
Mach 80 Radio/Tape Player, $469.95; Mach 40 Radio/Tape Player, $259.95; SS-1470 Radio/Tape Player, $199.95; SS-1240 Radio/Tape Player, $139.95; SS-1430 Radio/Tape Player, $99.95; SS-1220 Radio/Tape Player, $99.95

CLARION
Clarion Corp. of America
5500 Rosecrans Ave.
Lawndale, Calif. 90260

PE-956B Radio/Tape Player
Price: $460
Dimensions: 11/8 H x 7 W x 5 1/4 D
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Noise red.: No
R/P resp.: 60 Hz to 10 kHz, ±3 dB
S/N: 40 dB (w/o NR)
Output: 4 watts (6 dBW) per channel continuous into 4 ohms from 60 Hz to 10 kHz with no more than 10% THD; 8 watts per channel peak
RADIO
Format: Stereo
FM sens.: 1.5 microvolts for 50 dB quieting
Selectivity: -70 dB
Loc/Dst sw.: Yes
AFC: Yes
St/Mono sw.: Yes
Dig. readout: Yes
Pushbuttons: 2 AM/FM
Features: DIN nosepiece, digital clock, seek tuning; loudness switch; memory switch; voltage synthesizer tuning; remote amp

PE-751B Radio/Tape Player
Price: $376.95
Dimensions: 2 H x 7 W x 6 1/4 D
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Controls: Bass; treble
Noise red.: Dolby
R/P resp.: 40 Hz to 15 kHz, ±3 dB (w/o NR)
S/N: 50 dB (w/o NR)
Output: 12 watts (10.75 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with no more than 1% THD; 20 watts per channel peak
RADIO
Format: Stereo
FM sens.: 1.5 microvolts for 50 dB quieting

AP-16 Tape Player
Price: $38.95
Mounting: Under dash
Format: 8-track
Features: High/low tone control; separate slide volume controls for left/right speakers
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>221 GTL Radio/Tape Player</td>
<td>$289.95</td>
<td>24x3/4 x 7 x 1/2</td>
<td>In dash</td>
<td>Cassette</td>
<td>Bass; treble</td>
<td>S/N 40 dB</td>
<td>R/P 40 Hz</td>
<td>40 Hz to 15 kHz, +3 dB</td>
<td>12 watts (10.75 dB) per channel continuous into 4 ohms</td>
<td>60 dB</td>
<td>Wow and flutter 0.13% (WRMS), line output connection</td>
</tr>
<tr>
<td>308 GTL Radio/Preamp/Tape Player</td>
<td>$308</td>
<td>24x3/4 x 7 x 1/2</td>
<td>In dash</td>
<td>Cassette</td>
<td>Bass; treble</td>
<td>R/P 40 Hz</td>
<td>R/P 40 Hz</td>
<td>100 Hz to 6 kHz, ±3 dB</td>
<td>60 dB</td>
<td>S/N 40 dB</td>
<td>Wow and flutter 0.13% (WRMS), line output connection</td>
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<tr>
<td>222 GTL Radio/Tape Player</td>
<td>$279.95</td>
<td>24x3/4 x 7 x 1/2</td>
<td>In dash</td>
<td>Cassette</td>
<td>Bass; treble</td>
<td>R/P 40 Hz</td>
<td>R/P 40 Hz</td>
<td>100 Hz to 6 kHz, ±3 dB</td>
<td>40 dB</td>
<td>S/N 40 dB</td>
<td>Wow and flutter 0.13% (WRMS), line output connection</td>
</tr>
<tr>
<td>94 GTL Radio/Tape Player</td>
<td>$99.95</td>
<td>23 1/2 x 6 3/4 x 4 1/4</td>
<td>In dash</td>
<td>Cassette</td>
<td>Bass; treble</td>
<td>R/P 40 Hz</td>
<td>R/P 40 Hz</td>
<td>100 Hz to 6 kHz, ±3 dB</td>
<td>40 dB</td>
<td>S/N 40 dB</td>
<td>Wow and flutter 0.13% (WRMS), line output connection</td>
</tr>
</tbody>
</table>

**COBRA**

Dynascan Corp.
6460 West Cortland
Chicago, Ill. 60635

**PE-684A Radio/Tape Player**

Price: $280
Dimensions: 2H x 7 3/4 x 7D
Mounting: Under dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Controls: Bass; treble
Noise red.: Dolby
R/P resp.: 40 Hz to 15 kHz, ±3 dB
S/N: 50 dB (w/o NR)/58 dB (w/NR)
Output: 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with no more than 8% THD
Features: Wow and flutter 0.13% (WRMS), line output connection

**PE-838A Tape Player**

Price: $244
Dimensions: 2H x 7 1/4 x 6 1/2
Mounting: Under dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Controls: Bass; treble
Noise red.: Dolby
R/P resp.: 40 Hz to 15 kHz, ±3 dB
S/N: 50 dB (w/o noise reduction)/58 dB (with noise reduction)
Output: 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 15 kHz with no more than 8% THD
Features: Wow and flutter 0.12% (WRMS)

**PE-453A Tape Player**

Price: $160
Dimensions: 2H x 7 1/4 x 6 1/2
Mounting: Under dash
Format: 8-track
Controls: Bass; treble
R/P resp.: 40 Hz to 12 kHz, ±3 dB
S/N: 50 dB (w/o NR)
Output: 10 watts (10 dBW) per channel continuous into 4 or 8 ohms from 40 Hz to 12 kHz with no more than 8% THD
Features: Wow and flutter 0.12% (WRMS)

**Models also available**

- PE-958 A Radio/Preamp/Tape Player, $308; PE-550A Radio/Tape Player, $280; PE-554A Radio/Tape Player, $160

**CONCORD**

Westland International
20121 Ventura Blvd.
Woodland Hills, Calif. 91364

**HP-350 Radio/Tape Player**

Price: $349.95
Dimensions: 2 1/4 x 7 7/8 x 4 3/4
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes (locking)
Controls: Bass; treble
Noise red.: Dolby
R/P resp.: 40 Hz to 15 kHz, ±2 dB (with standard tape)
S/N: 48 dB (w/o NR)/54 dB (w/NR)
THD: 0.3%
Noise red.: 120 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.3% THD
Controls: Bass; treble
R/P resp.: 100 Hz to 6 kHz, ±3 dB
S/N: 40 dB (w/o NR)
Output: 11 watts (10.5 dBW) per channel continuous into 4 ohms
Features: Wow and flutter 1.0%

**CONCORD**

Westland International
20121 Ventura Blvd.
Woodland Hills, Calif. 91364

**HPL-110 Radio/Tape Player**

Price: $240
Dimensions: 2 1/4 x 7 7/8 x 4 3/4
Mounting: In dash
Models also available

- HPL-505 Radio/Tape Player, $329.95; HPL-200 Radio/Tape Player, $279.95

ELF ENTERPRISES
ELF Enterprises, Inc. 8300 N.E. Underground Drive Kansas City, Mo. 64161

FB-1190 Custom G.M. Radio/Tape Player

Price: $250
Dimensions: 24H x 7W x 6D
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Rewind: Yes
Controls: Bass, treble, midrange
Output: 12 watts (10.75 dBW) per channel

16-6500 Radio/Tape Player

Price: $229.95
Dimensions: 24H x 7W x 6D
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Controls: Bass, treble, midrange
Noise red.: Yes
Output: 5 watts (7 dBW) per channel with no more than 10% THD

GRC-8200 Radio/Tape Player

Price: $279
Dimensions: 2H x 7W x 5 3/10D
Format: Cassette
Auto reverse: Yes
R/P resp.: 40 Hz to 13 kHz, -6 dB
S/N: 50 dB
Output: 7 watts (8.5 dBW) per channel

GCM-8100 Radio/Tape Player

Price: $239
Dimensions: 1 7/10H x 7W x 5D
Format: Cassette
Auto reverse: Yes
Controls: Fader
R/P resp.: 40 Hz to 13 kHz, -6 dB
S/N: 50 dB
Output: 7 watts (8.5 dBW) per channel

HANDIC
Handic U.S.A., Inc. 15945 N.W. 57th Ave. Hialeah, Fla. 33014

Monte Carlo Radio/Tape Player

Price: $550
Dimensions: 24H x 6W x 7 1/4D
Mounting: In dash
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Rewind: Yes
Controls: Bass, treble
Noise red.: Yes
Output: 12 watts (10.75 dBW) per channel continuous into 4 ohms from 70 Hz to 20 kHz with no more than 10% THD

GRUNDIG
LAS Electronics East, Inc. 85C Saratoga Blvd. Island Park, N.Y. 11558

GCV-2700 A/B Radio/Tape Player

Price: $399
Format: Cassette
Auto reverse: Yes
Fast-forward: Yes
Controls: Tone, balance, fader
Output: 20 watts (13 dBW) per channel

Napoli Radio/Tape Player

Price: $379
Dimensions: 14 3/4H x 6 7/8W x 5 3/10D
Mounting: In dash

1980 Edition

209
### El Paso Radio/Tape Player

**Price**: $197  
**Dimensions**: 14\% H x 6\% W x 5\% D  
**Mounting**: In dash  
**Format**: Cassette  
**Auto reverse**: No  
**Fast-forward**: Yes  
**Rewind**: Yes  
**Controls**: Bass; treble; remote  
**Noise red.**: Dolby  
**Loc/Dst sw.**: Yes  
**AFC**: Yes  
**Selectivity**: 35 dB  
**Output**: THD  
**S/N**: 50 dB (w/o NR)  
**S/N ref. lvl.**: 1 kHz at 0.5W  
**THD ref. l**: 1 kHz at 0.5W  
**Output**: 18 watts (12.6 dBW) per channel  

#### RADIO

- **Format**: Stereo  
- **FM sens.**: 2.5 microvolts for 50 dB quieting  
- **Selectivity**: 60 dB  
- **Loc/Dst sw.**: Yes  
- **AFC**: Yes  
- **Noise red.**: 0 dB (1 kHz)  
- **Features**: Wow and flutter 1%; leather-touch controls; memory; loudness; FM muting; auto mono/stereo switch; auto end-of-tape alarm  
- **Models also available**  
  - Las Vegas Radio/Tape Player, $400  
  - Paris Radio/Tape Player, $230  
  - Jolpia Radio/Tape Player, $112.50  
  - La Scala Tape Player, $70

### JENSEN

#### Jensen Sound Laboratories

4136 North United Parkway  
Schiller Park, Ill. 60176

**R-430 Radio/Tape Player**

**Price**: $470  
**Dimensions**: 2\% H x 7\% W x 6\% D  
**Mounting**: In dash  
**Format**: Cassette  
**Auto reverse**: No  
**Fast-forward**: Yes  
**Rewind**: Yes  
**Controls**: Bass; treble  
**Noise red.**: Dolby  
**R/P resp.**: 40 Hz to 14 kHz, ±3 dB (with CrO\textsubscript{2} tape)  
**S/N**: 50 dB (w/o NR)  
**S/N ref. l**: 1 kHz at 0.5W  
**THD ref. l**: 0.5W  
**Output**: 0.5W  
**THD**: 1% at 1kHz; ±10 dB  

#### RADIO

- **Format**: Stereo  
- **FM sens.**: 2.5 microvolts for 50 dB quieting  
- **Selectivity**: 60 dB  
- **Loc/Dst sw.**: Yes  
- **AFC**: Yes  
- **Noise red.**: 0 dB (1 kHz)  
- **Features**: Wow and flutter 1%; leather-touch controls; memory; loudness; FM muting; auto mono/stereo switch; auto end-of-tape alarm  
- **Models also available**  
  - R-330 Radio/Tape Player, $400  
  - R-320 Radio/Tape Player, $300  
  - R-310 Radio/Tape Player, $240

### KRACO

#### Kraco Enterprises, Inc.

505 E. Euclid Ave.  
Compton, Calif. 90224

**LED-509 Radio/Tape Player**

**Price**: $400  
**Dimensions**: 3\% H x 7\% W x 7\% D  
**Mounting**: In dash; under dash  
**Format**: Cassette  
**Fast-forward**: Yes  
**Rewind**: Yes  
**Controls**: Bass; treble  
**Noise red.**: No  
**R/P resp.**: 30 Hz to 10 kHz, ±5 dB  
**S/N**: 42 dB (w/o NR)  
**S/N ref. l**: 0 dB (1 kHz)  
**Output**: 18 watts (12.5 dBW) per channel  

#### KID-588 Radio/Tape Player**

**Price**: $208  
**Dimensions**: 2\% H x 7\% W x 5\% D  
**Mounting**: In dash/under dash  
**Format**: Cassette  
**Auto reverse**: Yes  
**Fast-forward**: Yes  
**Rewind**: Yes  
**Controls**: continuous tone control; balance; frequency  
**Noise red.**: No  
**R/P resp.**: 50 Hz to 8 kHz, ±10 dB  
**S/N**: 45 dB (w/o NR)  
**S/N ref. l**: 0 dB (1 kHz)  
**Output**: 4 watts (6 dBW) per channel  

#### KID-575 Radio/Tape Player**

**Price**: $166  
**Dimensions**: 2\% H x 7\% W x 5\% D  
**Mounting**: In dash  
**Format**: Rack  
**Auto reverse**: No  
**Fast-forward**: No  
**Rewind**: No  
**Controls**: continuous tone control; balance; fader  
**Noise red.**: No  
**R/P resp.**: 20 Hz to 10 kHz, ±8 dB  
**S/N**: 55 dB (w/o NR)  
**S/N ref. l**: 0 dB (1 kHz)  

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*High Fidelity's Buying Guide to Stereo Components*
### Controls
- Fast-forward: Yes
- Auto reverse: Yes

### Mounting
- CP-2300 Radio/Tape Player: Syosset, N.Y. 11791

### Features
- Pushbuttons: 5 AM/5 FM
- Stereod indicator LED

### Models also available
- LED-508 Radio/Tape Player, $400
- LED-S00 Tape Player, $249.95
- KID-589 Radio/Tape Player, $207.95
- KID-566 Radio/Tape Player, $145

### Radio/Tape Player
- **CAR-427**
  - **Price**: $625
  - **Dimensions**: 2 9/16" x 7 1/4" x 5 1/2" D
  - **Mounting**: In dash
  - **Fast-forward**: Yes
  - **Rewind**: Yes
  - **Controls**: Balance; tone
  - **Format**: Cassette
  - **Noise red.**: Dolby for FM and Tape
  - **R/P resp.**: 40 Hz to 15 kHz, ± 3 dB
  - **S/N**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
  - **S/N ref. Ivl.**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
  - **Output**: 775 mV (preamp)
  - **THD**: 0.5%
  - **THD ref. Ivl.**: -20 VU
  - **Features**: Vacuum fluorescent LED display; Dolby for FM and Tape

### Prices
- CP-500: $39.99
- CP-250: $44.99
- CP-100: $29.99

### CAR-427

### CAR-302
- **Price**: $300
- **Dimensions**: 2 9/16" x 7 1/4" x 4 3/4" D
- **Mounting**: In dash
- **Auto reverse**: No
- **Rewind**: Yes
- **Controls**: Bass; treble; fader
- **R/P resp.**: 20 kHz with no more than 0.9% quieting (stereo)
- **S/N**: 60 dB (± 400 kHz)
- **S/N ref. Ivl.**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- **Output**: 2.5 watts (4 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.9% quieting (stereo)
- **Features**: Vacuum fluorescent LED display; Dolby for FM and Tape

### CAR-301
- **Price**: $270
- **Dimensions**: 2 9/16" x 7 1/4" x 4 3/4" D
- **Mounting**: In dash
- **Auto reverse**: No
- **Rewind**: Yes
- **Controls**: Bass; treble; fader
- **R/P resp.**: 40 Hz to 13 kHz, ± 3 dB
- **S/N**: 58 dB (w/NR)/50 dB (w/o NR) (play only, unweighted)
- **S/N ref. Ivl.**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- **Output**: 775 mV (preamp)

### CAR-400
- **Price**: $500
- **Dimensions**: 29 1/4" x 7 1/4" x 5 1/2" D
- **Mounting**: In dash
- **Auto reverse**: No
- **Rewind**: Yes
- **Controls**: Balance; tone
- **Format**: Cassette
- **Noise red.**: Dolby for tape
- **R/P resp.**: 40 Hz to 13 kHz, ± 3 dB
- **S/N**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- **S/N ref. Ivl.**: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- **Output**: 2.5 watts (4 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.9% quieting (stereo)
- **THD**: 0.9%
- **THD ref. Ivl.**: -20 VU

### CAR-302

### MARANTZ

### CAR-301

### CAR-302

### Features
- Dolby for tape
- Dolby for FM and Tape
- Vacuum fluorescent LED display

### CAR-302

### Price
- $300
- Dimensions: 2 9/16" x 7 1/4" x 4 3/4" D
- Mounting: In dash
- Auto reverse: No
- Rewind: Yes
- Controls: Bass; treble; fader
- Noise red.: Dolby for tape
- R/P resp.: 40 Hz to 13 kHz, ± 3 dB
- S/N: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- S/N ref. Ivl.: 58 dB (w/NR)/50 dB (w/o NR) (un-weighted)
- Output: 2.5 watts (4 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.9% quieting (stereo)
- Features: Vacuum fluorescent LED display; Dolby for FM and Tape

### CAR-301

### CAR-302

### CAR-400

### CAR-301

### CAR-302

### CAR-400

### CAR-301

### CAR-302

### CAR-301

### CAR-302

### CAR-400

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### CAR-301

### CAR-302
**MITSUBISHI**  
Melco Sales, Inc.  
3030 E. Victoria  
Compton, Calif. 90221

**RX-2 Radio/Tape Player**  
Price $399.95  
Dimensions 2 3/4 x 7 1/2 x 6 1/2D  
Mounting In dash  
Format Cassette  
Auto reverse Yes  
Fast-forward Yes  
Rewind Yes  
R/P resp. 50 Hz to 12 kHz, ±3 dB  
S/N 50 dB (w/o NR)  
S/N ref. lvl. 1W  
THD 0.5%  
THD ref. lvl. 1W  
Output 4 watts (6.5 dBW) per channel continuous into 4 ohms with no more than 1% THD  
RADIO Format Stereo  
FM sens. 4 microvolts for 50 dB quieting  
Selectivity 55 dB  
Loc/Dst sw. Yes  
St/Mono sw. No  
Dig. readout No  
Pushbuttons 5 AM/5 FM  
Features Low-level outputs utilizing phono plugs  

**GX-102 Tape Player**  
Price $149.95  
Dimensions 1 5/8 x 5 1/2 x 6 1/4D  
Mounting Under dash  
Format Cassette  
Auto reverse Yes  
Fast-forward Yes  
Rewind Yes  
Controls Bass, treble  
S/N 45 dB (w/o NR)  
S/N ref. lvl. 1W  
THD 1%  
THD ref. lvl. 1W  
Output 4 watts (6 dBW) per channel continuous into 4 ohms with no more than 1% THD  
Features Hard permalloy head for CrO{subscript}2 tape, low-level DIN connector  

**TC-894AX Radio/Tape Player**  
Price $389.95  
Dimensions 2 11/16 x 7 1/4 x 7 1/8D  
Mounting In dash  
Format Cassette  
Auto reverse Yes  
Fast-forward Yes (locking)  
Rewind Yes (locking)  
Controls Bass, treble  
Noise red. Dolby  
R/P resp. 100 Hz to 6 kHz, ±3 dB  
S/N 40 dB (w/o NR)  
S/N ref. lvl. 400 Hz  
THD 10%  
THD ref. lvl. 12W  
Output 12 watts (10.75 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD  
RADIO Format Stereo  
FM sens. 7.5 microvolts (IFH) for 50 dB quieting  
Loc/Dst sw. Yes  
AFC Yes  
St/Mono sw. Yes  
Dig. readout No  
Pushbuttons Yes  
Features Loudness button, tape equalization switch (forte/fortissimo); high filters; front-to-rear ladder; hard permalloy tape head; dual ceramic filters  

**TC-880AX Radio/Tape Player**  
Price $239.95  
Dimensions 2 11/16 x 7 1/4 x 7 1/8D  
Mounting In dash  
Format Cassette  
Auto reverse Yes  
Fast-forward Yes (locking)  
Rewind Yes (locking)  
Controls Tone/balance  
Noise red. No  
R/P resp. 100 Hz to 6 kHz, ±3 dB  
S/N 40 dB (w/o NR)  
S/N ref. lvl. 400 Hz  
THD 10%  
THD ref. lvl. 3.5W  
Output 3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD  
RADIO Format Stereo  
FM sens. 7.5 microvolts (IFH) for 50 dB quieting  
Loc/Dst sw. Yes  
AFC Yes  

**MOTOROLA**  
Motorola, Inc.  
Automotive Products Div.  
1299 E. Algonquin Rd.  
Schaumburg, Ill. 60196
### TC-882AX Radio/Tape Player

<table>
<thead>
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<th>Price</th>
<th>$209.95</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>21/4 x 7 1/16 x 5 3/16</td>
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<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>8-track</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>No</td>
</tr>
<tr>
<td>Rewind</td>
<td>No</td>
</tr>
<tr>
<td>Controls</td>
<td>Bass, treble, balance</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>100 Hz to 6 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>40 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. l/v.</td>
<td>SRL (400 Hz)</td>
</tr>
<tr>
<td>THD</td>
<td>10%</td>
</tr>
<tr>
<td>THD ref. l/v.</td>
<td>3.5W</td>
</tr>
<tr>
<td>Output</td>
<td>3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **FM sens.:** 7.5 Microvolts for 50 dB quieting
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Dig. readout:** No
- **Pushbuttons:** Yes
- **Features:** Wow and flutter 0.25%; front-to-rear fader; loudness button; adjustable shafts; dual ceramic filters

#### Features

- **Wow and flutter:** 0.25%
- **Stereo:** more than 10% THD

#### Models also available

- **TC-887AX Radio/Tape Player:** $199.95
- **TC-885AX Radio/Tape Player:** $164.95

### TC-883AX Radio/Tape Player

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<thead>
<tr>
<th>Price</th>
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<tbody>
<tr>
<td>Dimensions</td>
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<td>Mounting</td>
<td>In dash</td>
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<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes (locking)</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes (locking)</td>
</tr>
<tr>
<td>Controls</td>
<td>Tone/balance</td>
</tr>
<tr>
<td>Noise red.</td>
<td>No</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>100 Hz to 6 kHz, ±3 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>40 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. l/v.</td>
<td>SRL (400 Hz)</td>
</tr>
<tr>
<td>THD</td>
<td>10%</td>
</tr>
<tr>
<td>THD ref. l/v.</td>
<td>3.5W</td>
</tr>
<tr>
<td>Output</td>
<td>3.5 watts (5.5 dBW) per channel continuous into 4 ohms from 150 Hz to 8 kHz with no more than 10% THD</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **FM sens.:** 7.5 microvolts (IHF) for 50 dB quieting
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Dig. readout:** No
- **Pushbuttons:** Yes
- **Features:** Wow and flutter 0.25%; dual ceramic filters; auto eject

### KE-5000 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$419.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3H x 7 1/4 x 5 1/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby on FM and cassette</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel from 30 Hz to 12 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner; electronic PLL synthesizer tuning; digital readout for frequency and time; seek tuning; electronic LED display; electronic LED station indicator; electronic LED tuning bar

### KE-3000 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$359.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2H x 7 1/4 x 5 1/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Phase noise suppression</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel from 30 Hz to 12 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Cassette
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner; auto replay after rewind; AM/FM

### KE-2002 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$319.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2H x 7 1/4 x 5 3/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Controls</td>
<td>Center-click balance control</td>
</tr>
<tr>
<td>Noise red.</td>
<td>PNS noise suppression for tape and FM</td>
</tr>
<tr>
<td>Output</td>
<td>5 watts (7 dBW) per channel from 30 Hz to 12 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner; phase-locked loop multiplexer; demodulator; digital equalizer; AM/FM LED indicator; electronic LED station indicator; electronic LED tuning bar; mute function; auto replay after rewind; designed for European cars

### KPX-9000 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$299.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2H x 7 1/4 x 6</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Controls</td>
<td>Tone/balance</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>30 Hz to 15 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner; auto replay after rewind; electronically governed motor; requires separate power amp; wow and flutter less than 0.13%

### KP-8500 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$279.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3H x 7 1/4 x 5 1/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Controls</td>
<td>Tone/balance</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dolby for tape and FM</td>
</tr>
<tr>
<td>Output</td>
<td>5 watts (7 dBW) per channel from 30 Hz to 12 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner; auto muting on FM

### KP-8005 Radio/Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$249.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2H x 7 1/4 x 5 1/4</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>Controls</td>
<td>Tone/balance</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel from 30 Hz to 12 kHz</td>
</tr>
</tbody>
</table>

#### RADIO

- **Format:** Stereo
- **Loc/Dst sw.:** Yes
- **St/Mono sw.:** Yes
- **Pushbuttons:** 5 AM/5 FM
- **Features:** Supertuner, digital equalizer for AM/FM, mueter, auto replay after rewind; AM/FM

### KP-707G Tape Player

<table>
<thead>
<tr>
<th>Price</th>
<th>$269.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2H x 6 1/2 x 6</td>
</tr>
<tr>
<td>Mounting</td>
<td>Under dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| Controls | Bass, treble, balance (with de-
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Format</th>
<th>Auto reverse</th>
<th>Fast-forward</th>
<th>Rewind</th>
<th>Controls</th>
<th>Output</th>
<th>Controls</th>
<th>Features</th>
<th>R/P resp.</th>
<th>RADIO Format</th>
<th>Stereo</th>
<th>St/Mono sw</th>
<th>Yes</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-9006 Radio/Tape Player</td>
<td>$239.95</td>
<td>3 1/4 x 7 1/4 W x 6 1/4D</td>
<td>In dash</td>
<td>8-track</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>4 watts (6 dBW) per channel</td>
<td>4 watts (6 dBW) per channel</td>
<td>Supertuner; phase-locked loop multiplex demodulator; FET front end; loudness control; auto replay after rewind; electronically governed motor</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked loop multiplex demodulator; FET front end; loudness control; auto replay after rewind; electronically governed motor</td>
</tr>
<tr>
<td>TP-9004 Radio/Tape Player</td>
<td>$229.95</td>
<td>3 1/4 x 7 1/4 W x 6 1/4D</td>
<td>In dash</td>
<td>8-track</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>4 watts (6 dBW) per channel</td>
<td>4 watts (6 dBW) per channel</td>
<td>Supertuner; phase-locked loop multiplex demodulator; FET front end; loudness control; auto replay after rewind; electronically governed motor</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked loop multiplex demodulator; FET front end; loudness control; auto replay after rewind; electronically governed motor</td>
</tr>
<tr>
<td>TP-5005 Radio/Tape Player</td>
<td>$229.95</td>
<td>3 1/4 x 7 1/4 W x 6 1/4D</td>
<td>In dash</td>
<td>Cassette</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>30 Hz to 12 kHz</td>
<td>Supertuner; for Chrysler products; adjustable shafts; muting; phase-locked loop multiplex demodulator; FET front end; radio dial in 8-track door</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; for Chrysler products; adjustable shafts; muting; phase-locked loop multiplex demodulator; FET front end; radio dial in 8-track door</td>
</tr>
<tr>
<td>TP-5001 Radio/Tape Player</td>
<td>$219.95</td>
<td>3 1/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-2005 Radio/Tape Player</td>
<td>$199.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5003 Radio/Tape Player</td>
<td>$199.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5002 Radio/Tape Player</td>
<td>$189.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5000 Radio/Tape Player</td>
<td>$189.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5001 Radio/Tape Player</td>
<td>$179.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5000 Radio/Tape Player</td>
<td>$169.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
<tr>
<td>TP-5000 Radio/Tape Player</td>
<td>$159.95</td>
<td>2 3/4 x 7 1/4 W x 6 1/4D</td>
<td>Under dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>4 watts (6 dBW) per channel</td>
<td>40 Hz to 10 kHz</td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
<td>30 Hz to 15 kHz</td>
<td>Stereo</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>Supertuner; phase-locked multiplex demodulator; auto eject; loudness switch; muting</td>
</tr>
</tbody>
</table>

High Fidelity's Buying Guide to Stereo Components
12-1887 Hi Power Radio/Tape Player
Price $179.95
Dimensions 2 1/4 x 7 W x 6 D
Mounting In dash, under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Bass, treble
R/P resp. 75 Hz to 10 kHz, ± 3 dB
S/N 54 dB (w/o NR)
S/N ref. lvl. 1W
THD 10%
THD ref. lvl. 15 W
RADIO Format Stereo
FM sens. 3.5 microvolts for 50 dB quieting
Selectivity 57 dB
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes

12-1885 Radio/Tape Player
Price $99.95
Dimensions 2H x 7W x 4 1/4 D
Mounting In dash, under dash
Format 8-track
Auto reverse No
Fast-forward No
Rewind No
Controls Tone
R/P resp. 60 Hz to 10 kHz, ± 2 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 1W
THD 10%
THD ref. lvl. 5 W
RADIO Format Stereo
FM sens. 3.5 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. No
AFC Yes
St/Mono sw. Yes
Dig. readout No

12-1884 Radio/Tape Player
Price $99.95
Dimensions 1 1/4 x 7 3/16 W x 5 1/4 D
Mounting In dash, under dash
Format Cassette
Auto reverse No
Rewind Yes
Controls Tone
R/P resp. 60 Hz to 10 kHz, ± 3 dB
S/N 55 dB (w/o NR)
S/N ref. lvl. 1W
THD 10%

ROADSTAR
Roadstar Corp. of America
5312 Production Dr.
Huntington Beach, Calif.

RS-3300 Radio/Tape Player
Price $349.95
Dimensions 1 1/4 x 7 W x 5 1/2 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Continuous tone control
S/N 50 dB (w/o NR)
Output 5 watts (7 dBW) per channel
RADIO Format Stereo
FM sens. 1.5 microvolts (30 dB S/N)
Selectivity 30 microvolts (20 dB S/N)
Loc/Dst sw. Yes
Features Wow and flutter 1.5%; auto-reverse; IF ceramic filter, muting, digital readout, Sendust head

RS-3000DV Radio/Tape Player
Price $329.95
Dimensions 2H x 7W x 4 1/4 D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Output 7 watts (8.5 dBW) per channel
RADIO Format Stereo
FM sens. 1.5 microvolts selectivity (30 dB S/N)
Loc/Dst sw. Yes
AFC Yes
Pushbuttons Yes
Features Wow and flutter 3%

RS-1500 Radio/Tape Player
Price $139.95
Dimensions 2H x 7 1/2 W x 5 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
R/P resp. 50 Hz to 12 kHz
S/N 45 dB (w/o NR)
Output 4 watts (6 dBW) per channel continuous into 4 or 8 ohms

ROYAL SOUND
Royal Sound Co., Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

RS-2510 Radio/Tape Player
Price $400
Dimensions 1 1/4 x 7 W x 5 23/32 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass, treble
Noise red. dbx
R/P resp. 30 Hz to 12.5 kHz, ± 3 dB
S/N 65 dB (w/o NR)
THD 1%
THD ref. lvl. 9 W (rms)
Output 8 watts (9 dBW) per channel continuous into 4 ohms with no more than 1% THD

SANYO
Sanyo Electric, Inc.
1200 West Artesia Blvd.
Compton, Calif. 90220

FT-1498 Radio/Tape Player
Price $349.95
Dimensions 3H x 7 W x 6 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
S/N 62 dB (w/o NR)
THD ref. lvl. 11 W (10.5 dBW) woofer; 2.5 W (3.8 dBW) tweeter

12-1809 Hi Power Tape Player
Price $99.95
Dimensions 1 1/4 x 7 W x 6 1/4 D
Mounting Under dash
Format Cassette
Auto reverse No
Rewind Yes
Controls Bass, treble
R/P resp. 50 Hz to 14 kHz, ± 2 dB
S/N 55 dB (w/o NR)
THD 1%
THD ref. lvl. 12 W
RADIO Features Loudness compensation; auto eject, headphone jack

Models also available
KOX-9500 Radio/Tape Player, $329.95; KE-2000 Radio/Tape Player, $299.95; KP-8000 Radio/Tape Player, $249.95; TP-6005 Radio/Tape Player, $239.95; KP-3500 Radio/Tape Player, $229.95; KP-4000 Radio/Tape Player, $199.95; KP-88G Tape Player, $179.95; GX-5050 Radio, $155.95; KP-66G Tape Player, $149.95, KP-292 Tape Player, $129.95, KP-272 Tape Player, $109.95

REALISTIC
Radio Shack
1400 One Tandy Center
Ft. Worth, Texas 76102

12-1886 Hi Power Radio/Tape Player
Price $179.95; 12-1810 Hi Power Tape Player, $99.95

ROADSTAR
Roadstar Corp. of America
5312 Production Dr.
Huntington Beach, Calif.

RS-3300 Radio/Tape Player
Price $349.95
Dimensions 1 1/4 x 7 W x 5 1/2 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Controls Continuous tone control
S/N 50 dB (w/o NR)
Output 5 watts (7 dBW) per channel
RADIO Format Stereo
FM sens. 1.5 microvolts (30 dB S/N)
Selectivity 30 microvolts (20 dB S/N)
Loc/Dst sw. Yes
Features Wow and flutter 1.5%; auto-reverse; IF ceramic filter, muting, digital readout, Sendust head

RS-3000DV Radio/Tape Player
Price $329.95
Dimensions 2H x 7W x 4 1/4 D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass
Noise red. dbx
R/P resp. 35 Hz to 10.5 kHz
S/N 50 dB (w/o NR)
THD 1%
THD ref. lvl. 4 W (rms)
Output 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 3% THD

RADIO Format Stereo
FM sens. 1 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Features Outputs for 3 speakers, high and low impedance, preamp out: FM muting; loudness; AFC defeat

RS-2010N Radio/Tape Player
Price $200
Dimensions 1 1/4 x 7 W x 4 11/12 D
Mounting In dash
Format Cassette
Auto reverse No
Fast-forward Yes
Rewind No
Controls Bass
Noise red. dbx
R/P resp. 35 Hz to 10.5 kHz
S/N 50 dB (w/o NR)
THD 1%
THD ref. lvl. 4 W (rms)
Output 8 watts (9 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO Format Stereo
FM sens. 1.9 microvolts for 50 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes
St/Mono sw. Yes
Dig. readout Yes
Pushbuttons No
Features Wow and flutter 1%; auto-reverse; jam-proof mechanism; mounts and plays in any position

ROYAL SOUND
Royal Sound Co., Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

RS-2510 Radio/Tape Player
Price $400
Dimensions 1 1/4 x 7 W x 5 23/32 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes (locking)
Rewind Yes (locking)
Controls Bass, treble
Noise red. dbx
R/P resp. 30 Hz to 12.5 kHz, ± 3 dB
S/N 65 dB (w/o NR)
THD 1%
THD ref. lvl. 9 W (rms)
Output 8 watts (9 dBW) per channel continuous into 4 ohms with no more than 1% THD

RADIO Format Stereo
FM sens. 1.4 microvolts for 30 dB quieting
Selectivity 60 dB
Loc/Dst sw. Yes
AFC Yes (defeatable)
St/Mono sw. Yes
Dig. readout Yes
Features Wow and flutter 1%; auto-reverse; jam-proof mechanism; mounts and plays in any position

SANYO
Sanyo Electric, Inc.
1200 West Artesia Blvd.
Compton, Calif. 90220

FT-1498 Radio/Tape Player
Price $349.95
Dimensions 3H x 7 W x 6 D
Mounting In dash
Format Cassette
Auto reverse Yes
Fast-forward Yes
Rewind Yes
Noise red. Dolby
S/N 62 dB (w/o NR)
THD ref. lvl. 11 W (10.5 dBW) woofer; 2.5 W (3.8 dBW) tweeter

1980 Edition
### High Fidelity's Buying Guide to Stereo Components

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Format</th>
<th>Auto reverse</th>
<th>Fast-forward</th>
<th>Rewind</th>
<th>Controls</th>
<th>S/N</th>
<th>THD</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FT-2400 Radio/Tape Player</strong></td>
<td>$330</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>62 dB</td>
<td>1%</td>
<td>11 watts (10.5 dB) per channel continuous into 4 or 8 ohms from 40 Hz to 19 kHz with no more than 0.07% THD (woofer)</td>
<td>Tape play and FM stereo LED indicator; AM/FM pushbutton selector</td>
</tr>
<tr>
<td><strong>FT-1490-2 Radio/Tape Player</strong></td>
<td>$239.95</td>
<td>3H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>50 dB</td>
<td>5%</td>
<td>4.5 watts (6.5 dB) per channel continuous into 4 ohms from 80 Hz to 22 kHz with no more than 5% THD</td>
<td>AFC, Bluetooth, FM stereo in-dash, AM/FM, Cassette</td>
</tr>
<tr>
<td><strong>FT-874 Radio/Tape Player</strong></td>
<td>$219.95</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>60 dB</td>
<td>2%</td>
<td>6 watts (7.5 dB) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 0.1% THD (tweeter)</td>
<td>Bass, treble, Dolby, FM stereo in-dash, AM/FM, Cassette</td>
</tr>
<tr>
<td><strong>FT-646 Radio/Tape Player</strong></td>
<td>$199.95</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>62 dB</td>
<td>1%</td>
<td>4 watts (6 dB) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD</td>
<td>Auto reverse, separate woofer and tweeter controls; LED digital display; remote scanner</td>
</tr>
<tr>
<td><strong>FT-498 Radio/Tape Player</strong></td>
<td>$189.95</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>45 dB</td>
<td>1%</td>
<td>5 watts (7.5 dB) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD (tweeter)</td>
<td>Auto reverse; separate woofer and tweeter controls; LED digital display; remote scanner</td>
</tr>
<tr>
<td><strong>FT-645 Radio/Tape Player</strong></td>
<td>$179.95</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>45 dB</td>
<td>1%</td>
<td>5 watts (7.5 dB) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD (tweeter)</td>
<td>Auto reverse, separate woofer and tweeter controls; LED digital display; remote scanner</td>
</tr>
<tr>
<td><strong>FT-644 Radio/Tape Player</strong></td>
<td>$139.95</td>
<td>2H x 7W x 6D</td>
<td>In dash</td>
<td>Cassette</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>45 dB</td>
<td>1%</td>
<td>5 watts (7.5 dB) per channel continuous into 4 or 8 ohms from 50 Hz to 12 kHz with no more than 3% THD (tweeter)</td>
<td>Auto reverse, separate woofer and tweeter controls; LED digital display; remote scanner</td>
</tr>
</tbody>
</table>
### Sharp Electronics Corp.

10 Keystone Place
Paramus, N.J. 07652

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**SHARP**

#### 10 Radio/Tape Player

**Price** $259.95

**Dimensions** 2H x 9 1/5W x 5 1/4D

**Mounting** In dash

**Format** Cassette

**Auto reverse** Yes

**Fast-forward** Yes

**Rewind** Yes (locking)

**Controls** Balance; tone

**R/P resp.** 50 Hz to 10 kHz, -6 dB

**S/N** 50 dB (w/o NR)

**Output** 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 10% THD

**Features** Digital readout, St/Mono sw., Loc/Dst sw., APCSS (auto program system)

---

**RG-3550 Radio/Tape Player**

**Price** $219

**Dimensions** 2H x 9 1/5W x 5 1/4D

**Mounting** In dash

**Format** Cassette

**Auto reverse** Yes

**Fast-forward** Yes

**Rewind** Yes

**Controls** Bass (slide)

**R/P resp.** 50 Hz to 10 kHz, -6 dB

**S/N** 50 dB (w/o NR)

**Output** 5 watts (7 dBW) per channel continuous into 4 ohms with no more than 10% THD

**Features** Digital readout

---

**RG-3400 Radio/Tape Player**

**Price** $189

**Dimensions** 2H x 9 1/5W x 5 1/4D

**Mounting** In dash

**Format** Cassette

**Auto reverse** Yes

**Fast-forward** Yes

**Rewind** No

**Controls** Bass, treble

**S/N** 40 dB (w/o NR)

**Output** 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

**Features** Separate balance and fader, electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

---

**SR-2400 Radio/Tape Player**

**Price** $269.95

**Dimensions** 1 3/4H x 7W x 5 1/2D

**Mounting** In dash

**Format** 8-track

**Auto reverse** No

**Fast-forward** No

**Rewind** No

**Controls** Bass, treble

**S/N** 40 dB (w/o NR)

**Output** 20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD

**Features** Separate balance and fader, electronic controls for loudness, FM muting, high-filter cut; clock with elapsed time and date; digital display

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**Note:** Additional models are available including the ones listed above.
### SR-340 Radio/Tape Player
- **Price**: $239.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: No
- **Fast-forward**: Yes
- **Rewind**: Yes
- **Controls**: Bass; treble
- **S/N**: 40 dB (w/o NR)
- **Output**: 20 watts (13 dBW per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD
- **Features**: Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut, clock with elapsed time and date, digital display

### SR-240 Radio/Tape Player
- **Price**: $239.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: 8-track
- **Auto reverse**: No
- **Fast-forward**: No
- **Rewind**: No
- **Controls**: Bass; treble
- **S/N**: 40 dB (w/o NR)
- **Output**: 5 watts (7 dBW per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD
- **Features**: Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut, clock with elapsed time and date, digital display

### SR-330 Auto Reverse Radio/Tape Player
- **Price**: $229.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: Yes
- **Fast-forward**: No
- **Rewind**: Yes
- **Controls**: Bass; treble
- **S/N**: 40 dB (w/o NR)
- **Output**: 5 watts (7 dBW per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD
- **Features**: Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut, clock with elapsed time and date, digital display

### SR-2100 Radio/Tape Player
- **Price**: $219.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: 8-track
- **Auto reverse**: No
- **Fast-forward**: No
- **Rewind**: No
- **Controls**: Bass; treble
- **S/N**: 40 dB (w/o NR)
- **Output**: 20 watts (13 dBW per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD
- **Features**: Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut

### SR-310 Radio/Tape Player
- **Price**: $189.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: No
- **Fast-forward**: Yes
- **Rewind**: Yes
- **Controls**: Bass; treble
- **S/N**: 40 dB (w/o NR)
- **Output**: 5 watts (7 dBW per channel continuous into 4 ohms from 40 Hz to 15 kHz with no more than 1% THD
- **Features**: Separate balance and fader; electronic controls for loudness, FM muting, high-filter cut

### SR-302 Radio/Tape Player
- **Price**: $125
- **Dimensions**: 1¼H x 6 11/16W x 4 13/16D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: No
- **Fast-forward**: Yes
- **Rewind**: No
- **Controls**: Tone
- **S/N**: 38 dB (w/o NR)
- **Output**: 4 watts (6 dBW per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD
- **Features**: Separate balance and fader

### SR-202 Radio/Tape Player
- **Price**: $125
- **Dimensions**: 1¼H x 6 11/16W x 4 13/16D
- **Mounting**: In dash
- **Format**: 8-track
- **Auto reverse**: No
- **Fast-forward**: Yes
- **Rewind**: No
- **Controls**: Tone
- **S/N**: 38 dB (w/o NR)
- **Output**: 4 watts (6 dBW per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD
- **Features**: Separate balance and fader

### SR-201 Radio/Tape Player
- **Price**: $119.95
- **Dimensions**: 1¼H x 6 1/16W x 4 13/16D
- **Mounting**: In dash
- **Format**: 8-track
- **Auto reverse**: No
- **Fast-forward**: No
- **Rewind**: No
- **Controls**: Tone
- **S/N**: 38 dB (w/o NR)
- **Output**: 4 watts (6 dBW per channel continuous into 4 ohms from 60 Hz to 12 kHz with no more than 1% THD
- **Features**: Separate balance and fader

### SR-300 Radio/Tape Player
- **Price**: $189.95
- **Dimensions**: 1¼H x 7W x 5½D
- **Mounting**: In dash
- **Format**: Cassette
- **Auto reverse**: No
- **Fast-forward**: Yes
- **Rewind**: No
- **Controls**: Tone
- **S/N**: 35 dB (w/o NR)
- **Output**: 45 watts (6.5 dBW per channel continuous into 8 ohms from 75 Hz to 10 kHz with no more than 10% THD
- **Features**: Separate balance and fader; FM muting switch

### SR-120 Radio
- **Price**: $79.95
- **Dimensions**: 1¼H x 7W x 4 11/16D
- **Mounting**: In dash
- **Controls**: Tone
- **S/N**: 45 watts (6.5 dBW per channel continuous into 8 ohms from 75 Hz to 10 kHz with no more than 10% THD
- **Features**: Separate balance and fader; FM muting switch

### SS-100 Radio/Tape Player
- **Price**: $29.95
- **Dimensions**: 2¼H x 5¼W x 7¼D

---

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High Fidelity's Buying Guide to Stereo Components
**Selectivity**

<table>
<thead>
<tr>
<th>FM sens.</th>
<th>Yes</th>
<th>Yes (auto)</th>
</tr>
</thead>
<tbody>
<tr>
<td>St/Mono sw.</td>
<td>Yes</td>
<td>Yes (auto)</td>
</tr>
</tbody>
</table>

**Dig. readout**

| No | Yes |

**Pushbuttons**

| 5 AM/5 FM | 5 AM/5 FM |

**DP-7872 Radio/Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$199.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>1 23/32 x 7 1/16 x 5 11/32</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>40 Hz to 12 kHz, ±6 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>52 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>0.5W</td>
</tr>
<tr>
<td>THD</td>
<td>1.4%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>0.5W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel continuous into 4 ohms from 80 Hz to 12 kHz with no more than 10% THD</td>
</tr>
</tbody>
</table>

**TEN**

**Fujitsu Ten Corp. of America**

19281 Pacific Gateway Drive
Torrance, Calif. 90502

**GP-7881 Radio/Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$299.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2 25/32 x 7 1/16 x 5 5/16</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>No</td>
</tr>
<tr>
<td>Controls</td>
<td>Bass, treble</td>
</tr>
<tr>
<td>Noise red.</td>
<td>Dobly</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>60 Hz to 14 kHz, ±6 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>45 dB (wNR)/55 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>THD</td>
<td>0.4%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>0.5W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel continuous into 4 ohms from 40 Hz to 14 kHz with no more than 10% THD</td>
</tr>
</tbody>
</table>

| Features | Built-in noise blanker |

**DL-7841 Radio/Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$29.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3 1/32 x 6 1/16 x 5 5/16</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>No</td>
</tr>
<tr>
<td>Rewind</td>
<td>No</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>40 Hz to 12 kHz, ±6 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>0.5W</td>
</tr>
<tr>
<td>THD</td>
<td>0.7%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>0.5W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel continuous into 4 ohms from 80 Hz to 12 kHz with no more than 10% THD</td>
</tr>
</tbody>
</table>

| Features | Built-in noise blanker |

**TENNA**

**Tenna Corp.**

19201 Cranwood Parkway
Cleveland, Ohio 44128

<table>
<thead>
<tr>
<th>Price</th>
<th>$109.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2 1/8 x 6 1/2 x 7</td>
</tr>
<tr>
<td>Mounting</td>
<td>Under dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>No</td>
</tr>
<tr>
<td>Controls</td>
<td>Bass, treble</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>70 Hz to 12 kHz, ±3 dB (with standard test tape)</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>THD</td>
<td>0.5%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (10.75 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD</td>
</tr>
</tbody>
</table>

| Features | Wow and flutter 0.25% (WRMS); preamp output |

**C-3036 HP Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$109.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2 1/8 x 6 1/2 x 7</td>
</tr>
<tr>
<td>Mounting</td>
<td>Under dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>No</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>No</td>
</tr>
<tr>
<td>Controls</td>
<td>Bass, treble</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>70 Hz to 12 kHz, ±3 dB (with standard test tape)</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>THD</td>
<td>0.5%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (10.75 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD</td>
</tr>
</tbody>
</table>

| Features | WOW and flutter 0.25% (WRMS); preamp output |

**C-3010DMX Radio/Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$297.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2 1/4 x 7 x 5</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>Cassette</td>
</tr>
<tr>
<td>Auto reverse</td>
<td>Yes</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>Yes</td>
</tr>
<tr>
<td>Rewind</td>
<td>Yes</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>63 Hz to 12 kHz, ±3 dB (with standard test tape)</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>THD</td>
<td>1%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD</td>
</tr>
</tbody>
</table>

**T-3009DMX Radio/Tape Player**

<table>
<thead>
<tr>
<th>Price</th>
<th>$269.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2 1/8 x 7 x 5</td>
</tr>
<tr>
<td>Mounting</td>
<td>In dash</td>
</tr>
<tr>
<td>Format</td>
<td>8-track</td>
</tr>
<tr>
<td>R/P resp.</td>
<td>63 Hz to 12 kHz, ±3 dB (with standard test tape)</td>
</tr>
<tr>
<td>S/N</td>
<td>50 dB (w/o NR)</td>
</tr>
<tr>
<td>S/N ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>THD</td>
<td>1%</td>
</tr>
<tr>
<td>THD ref. Ivl.</td>
<td>1W</td>
</tr>
<tr>
<td>Output</td>
<td>4 watts (6 dBW) per channel continuous into 4 ohms from 100 Hz to 12 kHz with no more than 5% THD</td>
</tr>
</tbody>
</table>

**Fujitsu Ten Corp. of America**

19281 Pacific Gateway Drive
Torrance, Calif. 90502
### Amplifiers & Power Boosters

#### ADS
Analog & Digital Systems, Inc.
One Progress Way
Wilmington, Mass. 01887

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1h x 6 1/4 W x 5 D</td>
<td>$200</td>
<td>Under dash</td>
<td>20 watts (13 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD</td>
<td>Direct-coupled complementary OTL circuitry, high and low level inputs; response 15 Hz to 15 kHz, ±1 dB</td>
</tr>
</tbody>
</table>

#### Power Plate 100

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2 x 1 5/8 W x 6 1/4 D</td>
<td>$295</td>
<td>Under dash</td>
<td>20 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.08% THD</td>
<td>Built-in preamplifier, equalizer and speaker and amplifier protection; remote power &quot;on&quot;; slimline design for easy mounting</td>
</tr>
</tbody>
</table>

#### AFCO electronics
471 Roland Way
Oakland, Calif. 94621

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 H x 5 W x 4 D</td>
<td>$44.95</td>
<td>Under dash</td>
<td>20 watts (13 dBW) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 10% THD</td>
<td>Five-band equalizer, 4-way fader control</td>
</tr>
</tbody>
</table>

#### ALPINE
Alpine Electronics of America, Inc.
3102 Kashiwa St.
Torrance, Calif. 90505

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 H x 7 3/4 W x 7 3/4 D</td>
<td>$399.95</td>
<td>Under dash</td>
<td>50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD</td>
<td>Continuous, regulated power supply; THD and IM typically less than 0.05%; balanced line, differential input for noise reduction; 28 transistor bridged, DC-coupled design</td>
</tr>
</tbody>
</table>

#### PB-30E Graphic Equalizer/Amplifier

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1/4 H x 7 3/4 W x 7 3/4 D</td>
<td>$99.95</td>
<td>Under dash</td>
<td>20 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD</td>
<td>Auto remote power &quot;on&quot; switch, input sensitivity control, preamp out, speaker out</td>
</tr>
</tbody>
</table>

#### ALTONS
Alton Corp.
6 Main St.
Melrose, Mass. 02176

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 7/32 H x 8 W x 7 3/4 D</td>
<td>$339.95</td>
<td>Under dash</td>
<td>50 watts (17 dBW) per channel continuous into 4 ohms from 10 Hz to 60 kHz with no more than 0.2% THD</td>
<td>Fader control, power indicator light, equalizer adjustable at five frequencies</td>
</tr>
</tbody>
</table>

#### HI-COMP HCB-830

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 1/4 H x 7 W x 8 1/4 D</td>
<td>$200</td>
<td>Under dash</td>
<td>30 watts (14.75 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD</td>
<td>Direct-coupled complementary OTL circuitry, high and low level inputs; response 15 Hz to 15 kHz, ±1 dB</td>
</tr>
</tbody>
</table>

#### BLAUPUNKT

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1/4 H x 7 3/4 W x 6 1/2 D</td>
<td>$200</td>
<td>Under dash</td>
<td>65 watts (18 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD</td>
<td>Direct-coupled complementary OTL circuitry, high and low level inputs; response 15 Hz to 15 kHz, ±1 dB</td>
</tr>
</tbody>
</table>

#### HP-2000 Equalizer

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 H x 6 1/4 W x 6 1/4 D</td>
<td>$110</td>
<td>Under dash</td>
<td>20 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD</td>
<td>Five-band parametric equalizer (center frequency of each slide variable by 50 percent); high and low level inputs; bimodal capability (500 Hz and 2.5 kHz crossover)</td>
</tr>
</tbody>
</table>

#### HI-COMP HCE-750

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/8 H x 6 1/4 W x 4 1/4 D</td>
<td>$72</td>
<td>Under dash</td>
<td>25 watts (14 dBW) per channel continuous into 4 ohms</td>
<td>Five-band parametric equalizer, 4-speaker output with fader control, on/off switch with illuminated indicator</td>
</tr>
</tbody>
</table>

#### AMP-500

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 H x 4 W x 6 1/2 D</td>
<td>$37.50</td>
<td>Under dash</td>
<td>20 watts (13 dBW) per channel continuous into 4 or 8 ohms</td>
<td>On/off switch, indicator light</td>
</tr>
</tbody>
</table>

#### AUTOTEK

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>$99.95</td>
<td>Under dash</td>
<td>50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD</td>
<td>Multiple, regulated power supply; THD and IM typically less than 0.05%; balanced line, differential input for noise reduction; 28 transistor bridged, DC-coupled design</td>
</tr>
</tbody>
</table>

#### EQL-200 Graphic Equalizer/Amplifier

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/4 H x 5 W x 7 D</td>
<td>$109.95</td>
<td>Under dash</td>
<td>20 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.25% THD</td>
<td>Multiple, regulated power supply; THD and IM typically less than 0.05%; balanced line, differential input for noise reduction; 28 transistor bridged, DC-coupled design</td>
</tr>
</tbody>
</table>

#### HI-COMP HCB-830

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 1/4 H x 7 W x 8 1/4 D</td>
<td>$200</td>
<td>Under dash</td>
<td>30 watts (14.75 dBW) per channel continuous into 4 ohms from 15 Hz to 20 kHz with no more than 0.3% THD</td>
<td>Direct-coupled complementary OTL circuitry, high and low level inputs; response 15 Hz to 15 kHz, ±1 dB</td>
</tr>
</tbody>
</table>

#### HI-COMP HCE-750

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/8 H x 6 1/4 W x 4 1/4 D</td>
<td>$72</td>
<td>Under dash</td>
<td>25 watts (14 dBW) per channel continuous into 4 ohms</td>
<td>Five-band parametric equalizer, 4-speaker output with fader control, on/off switch with illuminated indicator</td>
</tr>
</tbody>
</table>

#### AMP-550 Amplifier/Equalizer

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Price</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4 H x 4 W x 6 1/2 D</td>
<td>$37.50</td>
<td>Under dash</td>
<td>20 watts (13 dBW) per channel continuous into 4 or 8 ohms</td>
<td>On/off switch, indicator light</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1 3/4H x 7 3/16W x 5 1/4D</td>
<td>Mounting</td>
<td>Under dash</td>
<td>Output</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

**BEA-100 Graphic Equalizer/Amplifier**

**Price** $143.90 | **Dimensions** 1 3/4H x 5 1/8W x 5 1/4D | **Mounting** Under dash | **Output** 15 watts (11.75 dBW) per channel continuous into 4 ohms from 27 Hz to 20 kHz | **Features** Five-band equalizer, front-to-rear fader control; tone-defeat switch. |

**EQA-60 Graphic Equalizer/Amplifier**

**Price** N/A | **Dimensions** 2H x 7 3/4W x 5 1/4D | **Mounting** Under dash | **Output** 30 watts (14.75 dBW) per channel continuous into 4 ohms from 27 Hz to 20 kHz | **Features** Electronic reverb, 4-way fader controller, output level meter, 5-band equalization. |

**BOMAN**

Boman Industries

9300 Hall Road

Downey, Calif. 90241

**EQA-30 Graphic Equalizer/Amplifier**

**Price** N/A | **Dimensions** 2H x 6 5/8W x 5 1/4D | **Mounting** Under dash | **Output** 15 watts (11.75 dBW) per channel continuous into 4 ohms from 27 Hz to 20 kHz | **Features** Power output meter, 5-band equalization, 4-way fader control. |

**BOSE**

Bose Corp.

100 The Mountain Road

Framingham, Mass. 01701

**1401 System**

**Price** $299.90 (includes 4 speakers and microphone) | **Dimensions** 1 3/4H x 10W x 4 1/4D | **Mounting** Under dash | **Output** 50 watts (17 dBW) per channel continuous into 0.45 ohms from 40 Hz to 17 kHz with no more than 0.9% THD | **Features** IM 0.04% (20W), response, 40 Hz to 17 kHz, ± 1 dB, S/N 70 dB (IF H A-weighted re 1W); must be used with Bose speakers; complete system includes 2 Direct/Reflecting grilles, 2 accessory grilles, 4 drivers, and 100-watt booster/equalizer with active electronic equalization. |

**CAR-FI**

Car-Fi International

152 West Cypress Ave.

Burbank, Calif. 91502

**EPA-7200**

**Price** $359.95 | **Dimensions** 3 1/8H x 6W x 1 1/2D | **Mounting** Trunk | **Output** 100 watts (20 dBW) per channel continuous into 1, 2, 4 or 8 ohms from 20 Hz to 20 kHz with no more than 0.5% THD | **Features** Selectable Impedance at output; reverse polarity, short circuit and overload protected. |

**EQL-5500**

**Price** $229.95 | **Dimensions** 2H x 6 3/10W x 4 1/5D | **Mounting** In dash/under dash | **Output** 13 watts (11.25 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD | **Features** Electronic crossover with 6 selectable crossover points, or a "flat" setting; short circuit and overload protected. |

**EE-115 Equalizer**

**Price** $55 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Under dash | **Output** 0.89V into 500 ohms | **Features** Fader control, 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch. |

**CLARION**

Clarion Corp. of America

5500 Rosecrans Ave.

Lawndale, Calif. 90260

**GA-302E**

**Price** $100 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Remote (trunk) | **Output** 24 watts (13.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD | **Features** Designed for use with model PE-958A, response 40 Hz to 30 kHz, ±3 dB; S/N 80 dB. |

**GA-301E**

**Price** $55 | **Dimensions** 1H x 5 1/8W x 1D | **Mounting** Remote (trunk) | **Output** 12 watts (10.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD | **Features** Designed for use with model PE-958A, S/N, 76 dB, frequency response 20 Hz to 40 kHz, ± 3 dB. |

**GEO-50-7 Graphic Equalizer/Amplifier**

**Price** $149.95 | **Dimensions** 2 1/4H x 7 1/4W x 7 3/8D | **Mounting** Under dash | **Output** 30 watts (14.75 dBW) per channel | **Features** Fader control; 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch. |

**GEO-40-5 Graphic Equalizer/Amplifier**

**Price** $90 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Under dash | **Output** 20 watts (13 dBW) per channel | **Features** Fader control; 5-band equalizer; LED power "on" indicator; on/off power bypass switch. |

**COMRA**

Dynascan Corp.

6460 West Cortland

Chicago, Ill. 60635

**EE-115 Equalizer**

**Price** $55 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Under dash | **Output** 0.89V into 500 ohms | **Features** Fader control, 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch. |

**CLARION**

Clarion Corp. of America

5500 Rosecrans Ave.

Lawndale, Calif. 90260

**GA-301E**

**Price** $55 | **Dimensions** 1H x 5 1/8W x 1D | **Mounting** Remote (trunk) | **Output** 12 watts (10.75 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD | **Features** Designed for use with model PE-958A, S/N, 76 dB, frequency response 20 Hz to 40 kHz, ± 3 dB. |

**EE-115 Equalizer**

**Price** $55 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Under dash | **Output** 0.89V into 500 ohms | **Features** Fader control, 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch. |

**GEO-50-7 Graphic Equalizer/Amplifier**

**Price** $149.95 | **Dimensions** 2 1/4H x 7 1/4W x 7 3/8D | **Mounting** Under dash | **Output** 30 watts (14.75 dBW) per channel | **Features** Fader control; 7-band equalizer; LED power "on" indicator and power level indicator; on/off power bypass switch. |

**GEO-40-5 Graphic Equalizer/Amplifier**

**Price** $90 | **Dimensions** 2H x 5 1/8W x 1D | **Mounting** Under dash | **Output** 20 watts (13 dBW) per channel | **Features** Fader control; 5-band equalizer; LED power "on" indicator; on/off power bypass switch. |
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Output Power</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-502 Booster</td>
<td>$84.95</td>
<td>5 1/4 x 8 1/2 x 2 1/2 D</td>
<td>Under dash</td>
<td>24 watts (14 dB) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD</td>
<td>Plug-in installation; can be used with any Craig unit; compatible with 4-speaker matrix systems; auto power switching</td>
</tr>
<tr>
<td>V-501 Booster</td>
<td>$59.95</td>
<td>2 x 7 1/4 x 5 1/4 D</td>
<td>Under dash</td>
<td>12 watts (10.75 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 2.0% THD</td>
<td>Automatic power switching; compatible with 4-speaker matrix systems, plug-in installation</td>
</tr>
<tr>
<td>PB-580</td>
<td>$119.95</td>
<td>1 1/4 x 5 3/4 x 5 3/4 D</td>
<td>Under dash</td>
<td>15 watts (11.75 dB) per channel continuous into 4 ohms from 20 Hz to 15 kHz with no more than 0.2% THD</td>
<td>Built-in 5-band equalizer; LED output indicator; equalizer; equalizer bypass switch for &quot;flat&quot; amp</td>
</tr>
<tr>
<td>V-503 Amplifier/Equalizer</td>
<td>$199.95</td>
<td>3 x 9 x 5 1/2 D</td>
<td>Under dash</td>
<td>15 watts (11.55 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 0.5% THD</td>
<td>Includes 4-band equalizer with reversible slide-out racket; electronic timer; delay for speaker protection; tone defeat; power range push button; OCL/OTL DC-coupled amplifier</td>
</tr>
<tr>
<td>V-505 Amplifier/Equalizer</td>
<td>$144.95</td>
<td>2 3/4 x 8 1/2 x 5 1/2 D</td>
<td>Under dash</td>
<td>24 watts (14 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 1.0% THD</td>
<td>Built-in 4-band equalizer; power-range push-button OCL/OTL DC-coupled amplifier</td>
</tr>
<tr>
<td>DRACO</td>
<td>$129.95</td>
<td>1 1/2 x 6 1/2 x 7 1/2 D</td>
<td>Under dash</td>
<td>15 watts (11.75 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 1% THD</td>
<td>Built-in 5-band equalizer</td>
</tr>
<tr>
<td>8 PA-40</td>
<td>$139.95</td>
<td>2 1/4 x 6 x 5 1/2 D</td>
<td>Under dash</td>
<td>25 watts (14 dB) per channel continuous into 2 ohms from 20 Hz to 20 kHz with no more than 0.3% THD</td>
<td>Low-noise differential input; remote on/off; low power drain; does not contain DC-to-DC converter supply</td>
</tr>
<tr>
<td>EQB-61 Graphic Equalizer/Power Booster</td>
<td>$99.95</td>
<td>1 1/4 x 5 3/4 x 6 1/2 D</td>
<td>Under dash</td>
<td>15 watts (11.75 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz with no more than 1% THD</td>
<td>Built-in 5-band equalizer</td>
</tr>
<tr>
<td>EQB-260 Graphic Equalizer/Power Booster</td>
<td>$69.95</td>
<td>1 1/4 x 4 x 3 1/4 D</td>
<td>Under dash</td>
<td>30 watts (14.75 dB) per channel continuous into 4 ohms from 10 Hz to 20 kHz</td>
<td>Fader control; 5-band equalizer</td>
</tr>
<tr>
<td>601 Amplifier/Equalizer</td>
<td>$129.95</td>
<td>1 1/2 x 6 1/2 x 7 D</td>
<td>Under dash</td>
<td>15 watts (11.75 dB) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 1% THD</td>
<td>Built-in 5-band equalizer</td>
</tr>
<tr>
<td>110 Amplifier/Equalizer</td>
<td>$69.95</td>
<td>1 1/4 x 5 1/2 x 7 D</td>
<td>Under dash</td>
<td>18 watts (12.5 dB) per channel continuous into 4 ohms from 30 Hz to 20 kHz with no more than 1% THD</td>
<td>Power indicator light; bass/treble slide control</td>
</tr>
<tr>
<td>ELITE</td>
<td>$69.95</td>
<td>1 1/8 x 4 1/2 x 4 1/2 D</td>
<td>Under dash</td>
<td>30 watts (14.75 dB) per channel continuous into 4 ohms from 50 Hz to 15 kHz</td>
<td>Bass and treble controls; fader control</td>
</tr>
<tr>
<td>PMA-270 Power Amplifier</td>
<td>$439</td>
<td>2 1/4 x 11 x 7 1/2 D</td>
<td>Under dash</td>
<td>270 watts (24.25 dB) per channel continuous into 4 ohms from 15 Hz to 50 kHz with no more than 0.3% THD</td>
<td>Floating or common-ground input; fused outputs; inverting power supply; high or low impedance input</td>
</tr>
</tbody>
</table>

**Additional Notes:**
- THD stands for Total Harmonic Distortion, indicating the percentage of distortion in the output signal.
- Features listed include power output, built-in equalizers, and other useful specifications for each model.
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADS Power Plate 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fosgate PR-2100</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>GAA-6000 Equalizer</td>
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**Dimensions**

- **304-DX Graphic Equalizer/Amplifier**
  - Price: $38.95
  - Dimensions: 11/4" x 5/4" x 6 1/4"D

- **MR-78 Graphic Equalizer/Amplifier**
  - Price: $74.95
  - Dimensions: 2 1/4" x 6 1/4" x 6 1/4"D

- **GAA-5500 Amplifier**
  - Price: $89.95
  - Dimensions: 11/4" x 5 1/2" x 6 1/4"D

- **GAA-6000 Equalizer**
  - Price: $65
  - Features: Blimp
<table>
<thead>
<tr>
<th>Company</th>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td><strong>HANDIC</strong></td>
<td>EQ-20-7 Graphic Equalizer/Power Booster</td>
<td>$119.95</td>
<td>1¼H x 5¼W x 6¼D</td>
<td>Under dash</td>
<td>30 watts (14.75 dBW) per channel continuous into 4 ohms from 20 Hz to 15 kHz</td>
<td>Preamp out jacks; high/low switch; fader control; 7-band equalizer</td>
</tr>
<tr>
<td><strong>LAFAYETTE</strong></td>
<td>LA-5000 Amplifier</td>
<td>$399</td>
<td>3½H x 9W x 11½D</td>
<td>Under dash</td>
<td>75 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD</td>
<td>Digital power supply, forced-air cooling; high and low level adjustable inputs</td>
</tr>
<tr>
<td><strong>KRAKO</strong></td>
<td>KE-7 Amplifier/Equalizer</td>
<td>$129.95</td>
<td>2½H x 7½W x 7 ½D</td>
<td>Under dash</td>
<td>40 watts (16 dBW) continuous into 4 ohms from 20 Hz to 30 kHz with no more than 10% THD</td>
<td>Built-in equalizer with +12 dB boost/cut at 7 bands between 60 Hz and 15 kHz, power meters; fader controls; heat sink; headphone jack; power on/off</td>
</tr>
<tr>
<td><strong>LASER ACOUSTICS</strong></td>
<td>LA-2250 Amplifier</td>
<td>$349</td>
<td>2¼H x 8½W x 10¾D</td>
<td>Under dash or in trunk</td>
<td>125 watts (21 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.90% THD</td>
<td>Same as Model LA-5000</td>
</tr>
<tr>
<td><strong>MARANTZ</strong></td>
<td>SA-2415 Preamp/Equalizer</td>
<td>$250</td>
<td>2H x 5¼W x 10¼D</td>
<td>Under dash</td>
<td>75 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with more than 0.05% THD</td>
<td>LED indicators for switching section</td>
</tr>
<tr>
<td><strong>PB-131</strong></td>
<td>Power Booster</td>
<td>$45</td>
<td>2H x 5¼W x 4¾D</td>
<td>Under dash</td>
<td>20 watts (13 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 10% THD</td>
<td>On/off switch; dial light; includes mounting hardware and installation instructions</td>
</tr>
<tr>
<td><strong>LINEAR POWER</strong></td>
<td>300</td>
<td>$499.95</td>
<td>3½H x 7¼W x 13½D</td>
<td>Under dash</td>
<td>30 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD</td>
<td>Delayed turn-on; filtered 12 volts out; unplug installation; variable gain</td>
</tr>
<tr>
<td><strong>LINEAR POWER</strong></td>
<td>300</td>
<td>$499.95</td>
<td>3½H x 7¼W x 13½D</td>
<td>Under dash</td>
<td>30 watts (18.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD</td>
<td>Digital power supply; 4 inputs; 4 outputs; bridging capability; dual input sensitivity/impedance; voltage sensing, auto turn-on</td>
</tr>
</tbody>
</table>

*High Fidelity's Buying Guide to Stereo Components*
### Transformerless Power Amplifier

- **Mega Electronics, Inc.**
  - 12737 Garvey Ave.
  - Baldwin Park, Calif. 91708

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Output</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td><strong>Mega 100</strong></td>
<td>$115</td>
<td>1 7/10H x 6W x 6 1/2D</td>
<td>Under dash</td>
<td>50 watts (17 dBW) per channel continuous into 4 ohms from 25 Hz to 17 kHz with no more than 0.07% THD</td>
<td>Balanced line input eliminates alternator noise; works with floating output radios; background noise, -110 dB</td>
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### Output

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<tr>
<th>Model</th>
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### Dimensions

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### Features

- **Features**
  - Dual input sensitivity/impedance; voltage sensing; auto turn-on
  - Booster bypass with power switch,
  - Complete protection against short circuit, overheating, excess voltage, and reverse polarity
  - Balanced line input eliminates alternator noise; works with floating output radios; background noise, -110 dB

### METRO SOUND

- **Metro Sound**
  - 10615 Vanowen St.
  - North Hollywood, Calif. 91605

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<tr>
<th>Model</th>
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<tbody>
<tr>
<td><strong>MS-75</strong></td>
<td>$159.95</td>
<td>4H x 6W x 6 1/4D</td>
<td>Under dash</td>
<td>36 watts (15.5 dBW) per channel continuous into 4 ohms from 30 Hz to 22 kHz with no more than 0.3% THD</td>
<td>Locking speaker input connector; locking output connector; noise suppressor filter choke</td>
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### Dimensions

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### Features

- **Features**
  - Booster bypass with power switch;
  - Complete protection against short circuit, overheating, excess voltage, and reverse polarity;
  - Balanced transformerless power amplifier

### MA-1050 Equalizer Booster

- **Price** $124.95
- **Dimensions** 2H x 5 1/2W x 7 1/4D
- **Mounting** Under dash
- **Output** 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD
- **Features** Booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

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### Features

- **Features**
  - Booster bypass with power switch;
  - Complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

### MA-1040 Equalizer Booster

- **Price** $116.50
- **Dimensions** 2H x 5 1/2W x 5 1/4D
- **Mounting** Under dash
- **Output** 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD
- **Features** Booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

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### Features

- **Features**
  - Booster bypass with power switch;
  - Complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

### MA-1000 Booster

- **Price** $77.50
- **Dimensions** 2H x 5 1/2W x 5 1/4D
- **Mounting** Under dash
- **Output** 25 watts (14 dBW) per channel continuous into 4 to 8 ohms from 30 Hz to 30 kHz with no more than 0.4% THD
- **Features** Tone control or output variable control; booster bypass with power switch; complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

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### Features

- **Features**
  - Booster bypass with power switch;
  - Complete protection against short circuit, overheating, excess voltage, and reverse polarity; balanced transformerless power amplifier

### MITSUBISHI

- **Mitsubishi Audio Systems**
  - Melco Sales, Inc.
  - 3030 E. Victoria St.
  - Compton, Calif. 90221

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<tr>
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<tr>
<td><strong>CV-23</strong></td>
<td>$159.95</td>
<td>1 4/5H x 5 1/2W x 6 1/5D</td>
<td>Under dash</td>
<td>14 watts (11.5 dBW) per channel continuous into 4 ohms with no more than 1% THD</td>
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### Features

- **Features**
  - Built-in equalizer; front-rear fader; "power on" light; special slide mount (can mount from top or bottom without special adapters)
### Dimensions
- **Output**: 50 watts (17 dBW) per channel continuous into 4 ohms from 25 Hz to 22 kHz with no more than 1% THD
- **Features**: Heavy-duty heat sink; DC-DC inverted amp

### Z-60 Graphic Equalizer/Amplifier
- **Price**: $134.95
- **Dimensions**: 1 1/8 x 6 1/4 x 5 1/2 D
- **Output**: 60 watts (17.75 dBW) per channel continuous into 4 ohms from 25 Hz to 25 kHz with no more than 1% THD
- **Features**: Fader control; high and low impedance inputs; 5-band equalizer

### NUMARK
- **Numark Electronics Corp.**
- **Address**: 503 Raritan Center
- **Edison, N.J. 08817
- **EB-600 Graphic Equalizer/Amplifier**
- **Price**: $129.95
- **Dimensions**: 2 1/4 x 6 1/4 x 6 1/2 D
- **Mounting**: Under dash
- **Output**: 30 watts (14.75 dBW) per channel continuous into 8 ohms
- **Features**: Front/rear fader; equalization defeat switch; 5-band equalizer

### OLSON
- **Olson Electronics**
- **Address**: 260 S. Forge St.
- **Akron, Ohio 44324
- **AU-753 Amplifier**
- **Price**: $24.98
- **Dimensions**: 1 1/8 x 5 1/4 x 4 D
- **Mounting**: Under dash
- **Output**: 40 watts (16 dBW) per channel continuous into 4 ohms from 100 Hz to 10 kHz
- **Features**: Tone control; power meter

### PANASONIC
- **Panasonic Car Audio**
- **Address**: One Panasonic Way
- **Secaucus, N.J. 07094
- **CJ-5000 Amplifier/Equalizer**
- **Price**: $229.95
- **Dimensions**: 2 1/4 x 7 3/4 x 9 1/4 D
- **Mounting**: Under dash
- **Output**: 100 watts (20 dBW) per channel continuous into 4 ohms from 15 Hz to 40 kHz with no more than 0.05% THD
- **Features**: Dual inputs for general car radio or Panasonic preamps

### CJ-4000 Amplifier
- **Price**: $189.95
- **Dimensions**: 2 1/4 x 5 1/4 x 10 1/2 D
- **Mounting**: Under dash
- **Output**: 40 watts (16 dBW) per channel continuous into 4 ohms from 20 Hz to 40 kHz with no more than 0.08% THD
- **Features**: Designed for Panasonic preamps

### CJ-3600 Amplifier/Equalizer
- **Price**: $129.95
- **Dimensions**: 1 1/8 x 7 1/4 x 7 1/4 D
- **Mounting**: Under dash
- **Output**: 24 watts (19.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 0.1% THD
- **Features**: Built-in 5-band equalizer; for 2 or 4 speakers; fader control

### CJ-3000 Amplifier
- **Price**: $109.95
- **Dimensions**: 2 1/8 x 5 1/4 x 8 1/2 D
- **Mounting**: Under dash
- **Output**: 28 watts (14.5 dBW) per channel continuous into 4 ohms from 30 Hz to 40 kHz with no more than 0.1% THD
- **Features**: Designed for Panasonic preamps

### CJ-2557 Amplifier
- **Price**: $79.95
- **Dimensions**: 1 11/32 x 16 11/16 x 5 1/4 D
- **Mounting**: Under dash
- **Output**: 40 watts (16 dBW) per channel continuous into 4 ohms from 70 Hz to 10 kHz with no more than 5% THD

### CJ-156 Z Amplifier
- **Price**: $54.95
- **Dimensions**: 2 7/32 x 4 3/32 x 6 5/32 D
- **Mounting**: Under dash
- **Output**: 20 watts (13 dBW) per channel continuous into 4 ohms from 80 Hz to 16 kHz with no more than 5% THD

### AD-50 Graphic Equalizer/Amplifier
- **Price**: $249.95
- **Dimensions**: 2 1/4 x 5 1/4 x 7 1/2 D
- **Mounting**: Under dash
- **Output**: 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 1% THD
- **Features**: "Power on" LED; fits under dash or stacks with other Pioneer car stereos; for use with all non-component car stereos and tape decks; 10-LED power-level display; 5-band equalizer

### AD-360 Power Booster
- **Price**: $229.95
- **Dimensions**: 2 1/4 x 9 1/8 x 8 1/2 D
- **Mounting**: Under dash
- **Output**: 50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 0.6% THD
- **Features**: Built-in protection circuits; automatic on/off power switch

### GM-12 Amplifier
- **Price**: $54.95
- **Dimensions**: 2 7/32 x 4 3/32 x 6 5/32 D
- **Mounting**: Under dash
- **Output**: 20 watts (13 dBW) per channel continuous into 4 ohms from 80 Hz to 16 kHz with no more than 5% THD

### PIONEER
- **Pioneer Electronics of America**
- **Address**: 1925 E. Dominguez St.
- **Long Beach, Calif. 90810
- **GM-40 Component Stereo Main Amplifier**
- **Price**: $84.95
- **Dimensions**: 2 1/8 x 4 1/4 x 5 1/2 D
- **Mounting**: Under dash
- **Output**: 50 watts (17 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 1% THD
- **Features**: For use with Pioneer models KPX-9500, KPX-9000, KPX-600, KP-707G, KP-88G, KP-77G, and KP-66G; balanced parallel transformerless IC for high power and low distortion

### AD-320 Amplifier
- **Price**: $79.95
- **Dimensions**: 2 1/8 x 4 1/4 x 5 1/2 D
- **Mounting**: Under dash
- **Output**: 16 watts (12 dBW) per channel continuous into 4 ohms from 40 Hz to 20 kHz with no more than 0.8% THD
- **Features**: For use with all non-component car stereos and tape decks

### AD-312 Amplifier
- **Price**: $59.95
- **Dimensions**: 2 1/8 x 4 1/4 x 5 1/2 D
- **Mounting**: Under dash
- **Output**: 9 watts (9.5 dBW) per channel continuous into 4 ohms from 50 Hz to 18 kHz with no more than 1% THD
- **Features**: For use with all non-component car stereos and tape decks

### GM-12 Amplifier
- **Price**: $54.95
- **Mounting**: Under dash
- **Output**: 22 watts (3.5 dBW) per channel continuous into 4 ohms from 50 Hz to 20 kHz with no more than 0.8% THD

### POWER DRIVE
- **Recoton Corp.**
- **Address**: 46-23 Crane St.
- **Long Island City, N.Y. 11101
- **SE-70 Graphic Equalizer/Amplifier**
- **Price**: $149.99
- **Mounting**: Under dash
- **Output**: 60 watts (17.75 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 1% THD
- **Features**: Floating on common ground; 7-band equalizer; illuminated power meter

### SE-50 Graphic Equalizer/Amplifier
- **Price**: $129.95
- **Mounting**: Under dash
- **Output**: 48 watts (16.75 dBW) per channel continuous into 4 ohms from 20 Hz to 30 kHz with no more than 1% THD
- **Features**: Front/rear/both speaker selector; 5-band equalizer; (+12 dB at 50 Hz, 250 Hz, 1 kHz, 3.5 kHz, and 10 kHz)
PYRAMID Industries
12970-7N Branford St.
Arleta, Calif. 91331

PMA-270 Amplifier
Price $469.95
Dimensions 21/4H x 111/8W x 7'/2D
Mounting Under dash
Output 270 watts (24.25 dBW) per channel continuous into 4 ohms from 15 Hz to 50 kHz with no more than 0.3% THD
Features Floating or common ground input; high/low impedance input; fused outputs for speaker protection; split power supply inverted

Pyramid X-420

PB-2 Graphic Equalizer/Amplifier
Price $69.95
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Bass and treble controls; 4-8 ohm impedance

REALISTIC
Radio Shack Corp.
1400 One Tandy Center
Ft. Worth, Texas 76102

12-1878 Booster/Equalizer
Price $79.95
Dimensions 2H x 6W x 5'/2D
Mounting Under dash
Output 15 watts (11.75 dBW) per channel continuous into 4 ohms from 30 Hz to 30 kHz with no more than 10% THD
Features Built-in 5-band equalizer, fader control, auto switching

PB-7 Graphic Equalizer/Amplifier
Price $119.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Power amp defeat switch; 4-8 ohm impedance; illuminated power meter; 7-band equalizer with ±12 dB control at center frequencies

PB-3 Graphic Equalizer/Amplifier
Price $79.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Front/rear fader; 4-8 ohm impedance; 3-band equalizer with ±12 dB control at center frequencies

ROAL SOUND Co. Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

12-1877 Booster
Price $49.95
Dimensions 31/4H x 51/2W x 3'/2D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms with no more than 10% THD

PB-2 Graphic Equalizer/Amplifier
Price $26.95
Dimensions 1 1/4H x 4 9/16W x 4D
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 4 ohms with no more than 10% THD
Features Built-in 5-band equalizer, fader control, auto switching

RC-2000 Preamplifier/Equalizer
Price $500
Dimensions 2 1/2H x 7 15/16W x 6 7/10D
Mounting In dash/under dash
Features Built-in 7-band equalizer, LED threshold saturation level indicators, fader control; loudness contour; muting control; input sensitivity selector; ambience control; fused protection circuit, two stereo amplifier (front and rear) connections, head phone jack, gold-plated input and output terminals

ROAD SOUNDS
Road Sounds
425 7th St., N.W.
Washington, D.C. 20004

12-1876 Booster
Price $49.95
Dimensions 1 1/2H x 4 9/16W x 4D
Mounting Under dash
Features Doubles power of driving device up to 8 watts at 10% THD

PB-7 Graphic Equalizer/Amplifier
Price $119.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Power amp defeat switch; 4-8 ohm impedance; illuminated power meter; 7-band equalizer with ±12 dB control at center frequencies

PB-3 Graphic Equalizer/Amplifier
Price $79.95
Mounting Under dash
Output 20 watts (13 dBW) per channel continuous into 8 ohms from 20 Hz to 20 kHz with no more than 1% THD
Features Front/rear fader; 4-8 ohm impedance; 3-band equalizer with ±12 dB control at center frequencies

SANYO
Sanyo Electric, Inc.
1200 W. Artesia Blvd.
Compton, Calif. 90220

12-1879 Booster/Equalizer
Price $99.95
Dimensions 2 1/32H x 4 23/32W x 61/2D
Mounting Under dash
Output 40 watts (16 dBW) per channel continuous
Features Automatic power control; LED power indicator high-quality heat-sinks; bass and treble controls

SANYO
Sanyo Electric, Inc.
1200 W. Artesia Blvd.
Compton, Calif. 90220

PB-6120
Price $249.95
Dimensions 3H x 15 3/8W x 8D
Mounting Trunk/under seat

1980 Edition

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<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PA-6050</strong></td>
<td>60 watts (17.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.05% THD</td>
<td>$199.95</td>
<td>3 x 15/16 W x 8 D</td>
<td>Trunk/under seat</td>
<td>Operates in biampl mode using 4 separate amps or conventionally using woofer amps only; RCA jacks for line level preamp output from some Sanyo models; high-level input jacks for speaker outputs; motorized fader</td>
</tr>
<tr>
<td><strong>EQZ-6400 Biamplified Equalizer</strong></td>
<td></td>
<td>$99.95</td>
<td>2 x 7/16 W x 5 D</td>
<td>Under dash</td>
<td>Seven-band equalizer multi-pin connector for high level signals from conventional or biampl speaker outputs; 4 RCA input jacks for line level; conventional or biampl preamp outputs to power amplifiers; 7 center detent slide lever controls with LED &quot;bar graph&quot; meters</td>
</tr>
<tr>
<td><strong>EQZ-6200 Preamp/Equalizer</strong></td>
<td></td>
<td>$69.95</td>
<td>2 x 6 1/2 W x 4 1/4 D</td>
<td>Under dash</td>
<td>Built-in 7-band equalizer, 7 frequency center detent slide levers; compatible low and high power speaker outputs; tone defeat switch, -20 dB audio muting; S/N, -80 dB, 0.1% THD</td>
</tr>
<tr>
<td><strong>PA-6100, PA-6050, PA-119.95</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>SPARKOMATIC Spakomatic Corp. Routes 6 &amp; 209 Milford, Pa. 18337</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>GE-500 Graphic Equalizer/Power Booster</strong></td>
<td></td>
<td>$69.95</td>
<td>2 x 6 3/16 W x 6 1/2 D</td>
<td>Under dash</td>
<td>Visual response curve on an illuminated screen; front/rear fader control</td>
</tr>
<tr>
<td><strong>LC-100 Amplifier</strong></td>
<td></td>
<td>$69.95</td>
<td>1 1/4 x 4 1/4 W x 6 1/4 D</td>
<td>Under dash</td>
<td>Bass and treble boost and cut, sold with 10 oz. 6 x 9&quot; coaxial speakers</td>
</tr>
<tr>
<td><strong>LC-50 Power Booster</strong></td>
<td></td>
<td>$29.95</td>
<td>1 1/4 x 4 W x 5 D</td>
<td>Under dash</td>
<td>15 watts (11.75 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 1% THD</td>
</tr>
<tr>
<td><strong>PEQ Graphic Equalizer/Preamplifier</strong></td>
<td></td>
<td>$250</td>
<td>1 x 4 W x 8 D</td>
<td>Under dash</td>
<td>Eighteen-band equalizer; 20 Hz to 20 kHz response with no more than 0.03% THD</td>
</tr>
<tr>
<td><strong>V-1000 Amplifier</strong></td>
<td></td>
<td>$199</td>
<td>2 x 7/16 W x 7 1/2 D</td>
<td>Under dash</td>
<td>50 watts (17 dBW) per channel continuous into 4 ohms from 20 Hz to 20 kHz with no more than 0.2% THD</td>
</tr>
<tr>
<td><strong>Models also available</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LC-101 Amplifier, $49.95, V-700 Amplifier, $169, AS-1000 Subwoofer Amplifier System, $400 (with W-600 subwoofer), $150, $125, $250, $380, $125, $250, $380, $150, $320.</td>
</tr>
<tr>
<td>Model</td>
<td>Price</td>
<td>Dimensions</td>
<td>Configuration</td>
<td>Response</td>
<td>Min Power</td>
</tr>
<tr>
<td>-------</td>
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</tr>
<tr>
<td><strong>8231</strong></td>
<td>$50/kit</td>
<td>5¼&quot; W x 2½&quot;D</td>
<td>Dual cone</td>
<td>55 Hz to 15 kHz, ±5 dB re 92 dB SPL at 1 meter at 1 watt</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>6049</strong></td>
<td>$40</td>
<td>5¼&quot;H x 11W x 9¾D</td>
<td>Coaxial</td>
<td>60 Hz to 15 kHz, ±5 dB re 90 dB SPL at 1 meter at 1 watt</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>8972</strong></td>
<td>$85/kit</td>
<td>6¼&quot;H x 9W x 3¼D</td>
<td>Coaxial</td>
<td>40 Hz to 18 kHz, ±5 dB</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>8232</strong></td>
<td>$70/kit</td>
<td>5¼&quot;W x 2½&quot;D</td>
<td>Coaxial</td>
<td>45 Hz to 15 kHz</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>8931</strong></td>
<td>$55/kit</td>
<td>6¼&quot;H x 9½W x 3¼D</td>
<td>Coaxial</td>
<td>60 Hz to 18 kHz, ±5 dB re 95 dB SPL at 1 meter at 1 watt</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>2732</strong></td>
<td>$28</td>
<td>5½H x 7¼W x 2½D</td>
<td>Coaxial</td>
<td>60 Hz to 18 kHz, ±5 dB re 95 dB SPL at 1 meter at 1 watt</td>
<td>2 watts (3 dBW)</td>
</tr>
<tr>
<td><strong>7311</strong></td>
<td>$9</td>
<td>3½H x 3½W x 1¾D</td>
<td>Coaxial</td>
<td>80 Hz to 15 kHz, ±5 dB re 89 dB SPL at 1 meter at 1 watt</td>
<td>2 watts (3 dBW)</td>
</tr>
</tbody>
</table>

**Models also available**

8974, $110/kit, 6099, $60; 8932, $65/kit, 8531, $50/kit

**ALKTUS**

Altus Corp.

6 Main St.

Melrose, Mass. 02176

**SK-5696 Powsersonic**

Price: $116.95

Configuration: 2-way coaxial

Response: 50 Hz to 20 kHz

Max Power: 50 watts (17 dBW)

Impedance: 8 ohms

Driver Size: 6" x 9"

Magnet: 20 oz

Mounting: Flush

Features: Foam roll suspension

**SK-6595 Powsersonic**

Price: $86.95

Configuration: 2-way coaxial

Response: 50 Hz to 20 kHz

Max Power: 25 watts (14 dBW)

Impedance: 8 ohms

Driver Size: 4"

Magnet: 10 oz

Mounting: Flush

Features: Foam roll suspension

**SK-6292 Powsersonic**

Price: $59.95

Configuration: 2-Way Coaxial

Response: 100 Hz to 18 kHz

Max Power: 25 watts (14 dBW)

Impedance: 8 ohms

Driver Size: 4"

Magnet: 10 oz

Mounting: Flush

Features: Foam roll suspension

**Models also available**

SK-6393 Powsersonic, $66.95

**AMERICAN ACOUSTIC LABS**

All Speaker Systems

629 W. Cermak Road

Chicago, Ill. 60616

**Micro 100B**

Price: $110

Dimensions: 7¾H x 4½W x 4 9/16D

Configuration: 2-way

Response: 50 Hz to 20 kHz, re 84 dB SPL at 1 meter at 1 watt

Min Power: 5 watts (7 dBW)

Max Power: 50 watts (17 dBW)

Impedance: 4 ohms

Driver Size: 4" woofer, 1" tweeter

Mounting: Surface

Features: 5-year warranty

**AUDIOTEX**

GC Electronics

400 South Wyman

Rockford, Ill. 61101

**30-5121**

Price: $89.50/pr

Dimensions: 7½H x 4¼W x 4½D

Configuration: 2-way

Response: 55 Hz to 20 kHz

Max Power: 25 watts (14 dBW)
Configuration Dual cone

30-2648
Price $91.95
Configuration 3-way
Response 70 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 2 speakers, grilles, wiring, and hardware

30-3053
Price $18.60
Configuration Dual cone
Response 50 Hz to 10 kHz
Max power 20 watts (13 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as 30-2642, which includes 2 speakers, grilles, wiring, and hardware

30-3047
Price $17.70
Configuration Dual cone
Response 50 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 5" x 7"
Magnet 10 oz.
Mounting Flush

30-3056
Price $17.35
Configuration Dual cone
Response 60 Hz to 14 kHz
Max power 15 watts (11.75 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush
Features Also available as 30-2640, which includes 2 speakers, grilles, wiring, and hardware

30-3063
Price $16.15
Configuration Dual cone
Response 60 Hz to 15 kHz
Max power 16 watts (12 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 5.5 oz.
Mounting Flush
Features Also available as 30-2640, which includes 2 speakers, grilles, wiring, and hardware

30-3072
Price $38.70
Configuration 2-way
Response 40 Hz to 18 kHz
Max power 35 watts (15.5 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 25 oz.
Mounting Flush
Features Also available as 30-2654, which includes 2 speakers, grilles, wiring, and hardware

30-2646
Price $53.45
Configuration Dual cone
Response 70 Hz to 16 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features Includes 32 speakers, grilles, wiring, and hardware

30-3066
Price $31.75
Configuration 2-way
Response 50 Hz to 20 kHz
Max power 25 watts (14 dBW)
Impedance 4 to 8 ohms
Driver size 5 1/4" (round)
Magnet 20 oz.
Mounting Flush
Features Also available as 30-2644, which includes 2 speakers, grilles, wiring, and hardware

30-3070
Price $27.40
Configuration 2-way
Response 50 Hz to 18 kHz
Max power 20 watts (13 dBW)
Impedance 4 to 8 ohms
Driver size 6" x 9"
Magnet 10 oz.
Mounting Flush
Features Also available as 30-2652, which includes 2 speakers, grilles, wiring, and hardware

30-3065
Price $22.10
Configuration Dual cone

30-5120
Price $61.50
Dimensions 71/4 x 4 1/4 x 2" D
Configuration 2-way
Response 70 Hz to 22 kHz
Max power 30 watts (14.75 dBW)
Impedance 4 to 8 ohms
Driver size 4" woofer
Magnet 10 oz.
Mounting Surface
Features Home and auto mini speaker system; mounting bracket included

30-2647
Price $120/pr.
Dimensions 10H x 4W x 2 1/4D
Configuration 2-way
Response 50 Hz to 17 kHz
Min power 2 watts (3 dBW)
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 4" x 10" (2" tweeter)
Magnet 20 oz.
Mounting Flush
Features 1-inch voice coil

30-3051
Price $24.98
Dimensions 10 x 4 x 2 x 1/2D
Configuration 2-way
Response 50 Hz to 12 kHz
Min power 1.5 watts (0.25 dBW)
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 5 1/4"
Magnet 16 oz.
Mounting Flush
Features 1-inch high temperature voice coil; foam suspension cone

30-5905
Price $91.98
Dimensions 2 1/2H x 5 1/2W x 5 1/4D
Configuration 2-way
Response 50 Hz to 17 kHz
Min power 2 watts (3 dBW)
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 4" x 10"
Magnet 20 oz.
Mounting Flush
Features 1-inch voice coil

Models also available
30-3048, 30-3050, 30-3052, 30-3054, 30-2655, 30-2656, 30-2660, $35

AVID
Avid Corp.
10 Trippes Lane
East Providence, R.I.
02914

Ten
Price $200/pr.
Dimensions 1 9/16H x 11 1/4W x 7 7/8D
Configuration 2-way (5 kHz crossover)
Response 60 Hz to 20 kHz, ±5 dB
Min power 5 watts (7 dBW)
Max power 100 watts (20 dBW)
Impedance 8 ohms
Driver size 6 1/2" woofer, 1" soft-dome tweeter
Magnet 20 oz. (woofer), 10 oz. (tweeter)
Mounting Surface
Features 5-year warranty; comes complete with wiring; also available as Avid Ten Plus System (RD-5) with 4 1/2" door units, $250

BLAUPUNKT
Robert Bosch Corp.
2800 S. 25th Ave.
Broadview, Ill. 60153

687 000
Price $120/pr.
Dimensions 5 1/4H x 5 1/4W x 2 1/2D
Configuration 2-Way
Response 80 Hz to 16 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Flush

High Fidelity's Buying Guide to Stereo Components
639 000
Price $71.40
Dimensions 7¼H x 5½W x 5¼D
Configuration 2-way
Response 70 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Surface

676 000
Price $71.40
Dimensions 5½H x 8¼W x 1¾D
Configuration 2-way
Response 70 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms

721 000
Price $41.40
Dimensions 6¼H x 5¼W x 5¼D
Configuration 3-way
Response 70 Hz to 15 kHz
Max power 25 watts (14 dBW)
Impedance 4 ohms
Mounting Surface

728 000
Price N/A
Dimensions 6¼H x 9¼W x 3¼D
Configuration 3-way
Response 40 Hz to 20 kHz
Min power 15 watts (11.75 dBW)
Max power 40 watts (16 dBW)
Impedance 4 ohms
Mounting Flush

725 060
Price N/A
Configuration Dual cone
Response 80 Hz to 15 kHz
Min power 15 watts (11.75 dBW)
Max power 25 watts (14 dBW)
Impedance 4 ohms
Driver size 6¼"
Mounting Flush

Models also available
688 000, $134.25/pr.; 724 060, $34.30

BOSE
Bose Corp.
100 The Mountain Road
Framingham, Mass. 01701

1401 Car Stereo System
Price $299.90
Dimensions 1½H x 10W x 4½D (equalizer)
Configuration Full-range with active electronic equalizer
Min power 0.25 watts (-6 dBW)
Max power 25 watts (14 dBW)
Impedance 0.45 ohms
Driver size 4½"
Magnet 9.1 oz.
Mounting Flush
Features Speaker and booster/equalizer system; equalizer mounted under dash, output of equalizer: 50 watts (17 dBW) per channel continuous into 0.45 ohms from 40 Hz to 17 kHz with no more than 0.09% THD

BRAUN
Adcom
11A Jules Lane
New Brunswick, N.J. 08901

Output C
Price $279/pr. (with brackets)
Dimensions 6½H x 4¼W x 4¼D
Configuration 2-way
Response 50 Hz to 25 kHz
Min power 10 watts (10 dBW)
Max power 35/50 watts (15.5/17 dBW)
Impedance 4 ohms
Driver size 4½" woofer, 1" dome tweeter
Magnet 18 oz. (woofer)
Mounting Surface
Features Original mini speaker from Braun; aluminum cabinet 5mm. thick; crossover at 1,500 Hz., 12 dB per octave; employs long-throw woofer and computer-calculated crossover network; bracket allows maximum flexibility in mounting; padded rubber edgeging acts as cushion

CANTON
Adcom
11A Jules Lane
New Brunswick, N.J. 08901

AC-200
Price $300
Dimensions 4 2/5H x 7 3/5W x 5¼D
Configuration Power, bi-amplified two-way system
Response 48 Hz to 25 kHz
Driver size 4 1/3" woofer, 9/10" dome tweeter
Mounting Surface
Features Designed to run off car stereo speaker output; can also be operated with low level source such as a preamplifier, active crossover at 1.7 kHz, 20-watt amplifier for the woofer; 5-watt amp for the tweeter; woofer amp is a bridge switching amp with direct coupling, S/N: 78 dB; THD: 0.03% at 20 watts, 40 Hz to 2 kHz; high frequency amp is a single amp with S/N, 74 dB, THD 0.5% at 5 watts, 1.5 kHz to 12.5 kHz, cross-over at 12 db per octave; input voltages: 3v to 60 ohms or 300 mV to 50 ohms for full modulation; ground interference suppression: 45 dB; enclosure made of die-cast aluminum, finished in black

HC-100
Price $190/pr.
Dimensions 4 2/5H x 7 3/5W x 5¼D
Configuration 2-way
Response 48 Hz to 30 kHz
Min power 5 watts (7 dBW)
Max power 40/60 watts (16/17.75 dBW)
Impedance 4 ohms
Driver size 4 1/3" woofer; ¾" tweeter
Mounting Surface
Features Grille sloped at 28-degree angle; enclosure made of die cast aluminum; available in black, bronze, and metallic silver; crossover at 1.7 kHz, angle of dispersion is greater than 125 degrees

CAR-FI
Car-Fi International
152 W. Cypress Ave.
Burbank, Calif. 91502

CS-4
Price $239.97
Dimensions 6H x 9W x 4D
Configuration 3-way
Response 40 Hz to 30 kHz, ±2 dB re 94 dB SPL at 1 meter at 1 watt
Min power 4 watts (6 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface
Features Samarium Cobalt tweeter; soft-dome midrange; biamp compatible

CS-3
Price $149.95
Dimensions 6H x 9W x 4D
Configuration 3-way
Response 40 Hz to 20 kHz, ±2 dB re 94 dB SPL at 1 meter at 1 watt
Min power 4 watts (6 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface
Features Soft-dome tweeter; biamp compatible

CS-1
Price $89.95
Dimensions 6H x 9W x 4D
Configuration Woofer
Response 40 Hz to 2 kHz, ±2 dB re 94 dB SPL at 1 meter at 1 watt
Min power 4 watts (6 dBW)
Max power 45 watts (16.5 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 30 oz.
Mounting Flush or surface
Features Companion Speaker System

Models also available
CS-2; $129.95

CLARION
Clarion Corp. of America
5500 Rosecrans Ave.
Lauderdale, Calif. 91260

SK-103
Price $175
Dimensions 5H x 13W x 2D
Configuration 3-way
Response 60 Hz to 20 kHz, ±3 dB
Max power 30 watts (14.75 dBW)
Impedance 8 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

SK-102
Price $157
Dimensions 7H x 13W x 2½D
Configuration 3-way
Response 60 Hz to 20 kHz, ±3 dB
Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 4" x 10"
Magnet 10 oz.
Mounting Flush
Features Rear-deck mounting for "A" body cars (Cutlass Regal, Monte Carlo, etc.), door mounting for domestic and import cars, vans, and pick-up trucks

SK-99B
Price $137
Dimensions 6½H x 10W x 1½D
Configuration 3-way
Response 100 Hz to 20 kHz, ±3 dB
Max power 25 watts (14 dBW)
Impedance 8 ohms
Driver size 5¼"
Magnet 20 oz.
Mounting Flush

SK-105
Price $70
Dimensions 3¼H x 5W x 1D
Configuration 2-way tweeter/midrange
Response 100 Hz to 16 kHz, ±5 dB re 95 dB SPL at 1 meter at 1 watt (when used with SK-106 woofer)
Min power 25 watts (14 dBW)
Max power 50 watts (17 dBW)
Impedance 8 ohms
Driver size 3" midrange, 1" tweeter
Mounting Surface
Features To be used with SK-106 woofer; adjustable level control, Mylar capacitor crossover

Models also available
SK-106, $70

EPI
Epicure Products, Inc.
One Charles St.
Newburyport, Mass. 01950

LS-70
Price $150/pr.
Dimensions 10¼H x 7W x 3¼D
Configuration 2-way
Response 70 Hz to 20 kHz, ±3 dB re 87 dB SPL at 1 meter at 1 watt
Min power 12 watts (10.75 dBW)
Max power 60 watts (17.75 dBW)
Impedance 8 ohms
Driver size 6" woofer, 1" tweeter
Magnet 24 oz. (18 oz. woofer, 6 oz. tweeter)
Mounting Flush or surface
Features Individually-run frequency-response graph supplied with each unit; can be mounted in 6" x 9" cutout or in 5" or 4" cutout with optional adapters

Companion Speaker System (CSS) LS 35 Speaker and LCS Level Control System
Price $75
Dimensions 3½W x 1¼D
Configuration Full range
Min power 12 watts (10.75 dBW)
Max power 60 watts (17.75 dBW)
Impedance 8 ohms
Driver size 3½"
Mounting Flush
Features LCS controls balance of four speaker system; L-pad attenuators maintain constant system impedance; LS-35 requires 3½" cut out and 1¼" clearance behind mounting surface

FOSGATE
Fosgate Electronics, Inc.
2935 West Fairmount Ave.
Phoenix, Ariz. 85017

PRS-690
Price $120
Dimensions 6H x 9W
Configuration 2-way
Response 35 Hz to 16 kHz, +6 dB
Min power 20 watts (13 dBW)
Max power 50 watts (17 dBW)
Impedance 4 ohms
Driver size 6" x 9"
Magnet 20 oz.
Mounting Flush

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<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRS-500</td>
<td>$100</td>
<td>5 1/4&quot;</td>
<td>2-way</td>
<td>30 watts</td>
<td>4 ohms</td>
<td>4 1/2&quot; woofer, 2&quot; tweeter</td>
<td>Flush</td>
<td>Die-cast aluminum housing with brilliance control</td>
</tr>
<tr>
<td>15-9260</td>
<td>$149.95</td>
<td>6 1/4D</td>
<td>2-way</td>
<td>45 watts</td>
<td>4 ohms</td>
<td>10 oz</td>
<td>Screw-in</td>
<td>High-efficiency</td>
</tr>
<tr>
<td>15-9696</td>
<td>$79.95</td>
<td>6H x 9W x 3 1/4D</td>
<td>4-way</td>
<td>30 watts</td>
<td>4 ohms</td>
<td>12 watts (10.75 dBW)</td>
<td>Flush</td>
<td>Aluminium voice coil, deluxe quick-mount mesh grille</td>
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<tr>
<td>15-9690</td>
<td>$60</td>
<td>6H x 9W x 3 1/4D</td>
<td>3-way</td>
<td>25 watts</td>
<td>4 ohms</td>
<td>1/2 watt (3 dBW)</td>
<td>Surface</td>
<td>Sealed, air suspension</td>
</tr>
<tr>
<td>15-9670</td>
<td>$49.95</td>
<td>3 1/4D</td>
<td>2-way</td>
<td>25 watts</td>
<td>4 ohms</td>
<td>6 1/4&quot; x 9&quot;</td>
<td>Flush</td>
<td>Screw-in type mounting; door speakers</td>
</tr>
<tr>
<td>15-9470</td>
<td>$46.95</td>
<td>2 1/4D</td>
<td>2-way</td>
<td>25 watts</td>
<td>4 ohms</td>
<td>36.8 oz</td>
<td>Flush</td>
<td>Piezoelectric tweeter</td>
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<tr>
<td>Models also available</td>
<td>15-9665, $99.95; 15-9490, $55</td>
<td>85C Saratoga Blvd, Island Park, N.Y. 11558</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Model</td>
<td>Price</td>
<td>Configuration</td>
<td>Response</td>
<td>Max power</td>
<td>Impedance</td>
<td>Driver size</td>
<td>Magnet size</td>
<td>Mounting</td>
</tr>
<tr>
<td>---------</td>
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<td>C9945</td>
<td>$100</td>
<td>3-way</td>
<td>40 Hz to 20 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>6&quot; x 9&quot;</td>
<td>20 oz</td>
<td>Flush</td>
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<tr>
<td>C9991</td>
<td>$100</td>
<td>3-way</td>
<td>45 Hz to 20 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>4&quot; x 10&quot;</td>
<td>20 oz</td>
<td>Flush</td>
</tr>
<tr>
<td>C9927</td>
<td>$80</td>
<td>2-way</td>
<td>45 Hz to 18 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>5 1/4&quot;</td>
<td>20 oz</td>
<td>Flush</td>
</tr>
<tr>
<td>C9944</td>
<td>$70</td>
<td>2-way</td>
<td>50 Hz to 15 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>5 x 7&quot;</td>
<td>20 oz</td>
<td>Surface</td>
</tr>
<tr>
<td>S9943</td>
<td>$70</td>
<td>2-way</td>
<td>60 Hz to 15 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>5 1/4&quot;</td>
<td>10 oz</td>
<td>Flush</td>
</tr>
<tr>
<td>C9853</td>
<td>$60</td>
<td>2-way</td>
<td>60 Hz to 15 kHz</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>5 1/4&quot;</td>
<td>10 oz</td>
<td>Flush</td>
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<tr>
<td>C9851</td>
<td>$55</td>
<td>2-way</td>
<td>70 Hz to 15 kHz</td>
<td>20 watts</td>
<td>8 ohms</td>
<td>4&quot;</td>
<td>10 oz</td>
<td>Flush</td>
</tr>
<tr>
<td>C9809</td>
<td>$48</td>
<td>2-way</td>
<td>60 Hz to 12 kHz</td>
<td>20 watts</td>
<td>8 ohms</td>
<td>5 1/4&quot;</td>
<td>10 oz</td>
<td>Flush</td>
</tr>
</tbody>
</table>

**Models also available:**
- C9999, $100; C9740, $70, C9852, $68, C926, $50, C9997, $45; C9863, $39

**KRAKO**

Kraaco Enterprises

505 E. Euclid Ave.

Compton, Calif. 90224

**VCS-2000**

Price: $108

Dimensions: 4 9/16H x 7 3/8W x 4 3/4D

Configuration: 2-way

Response: 120 Hz to 20 kHz, ±10 dB re 70 dB SPL at 1 meter at 1 watt

Max power: 50 watts (17 dBW)

Impedance: 8 ohms

Driver size: 4"

Magnet: 10 oz.

Mounting: Surface

Features: Variable attenuator in an aluminum die-cast enclosure

**TRI-3-410**

Price: $85.95

Dimensions: 2 5/8H x 10 1/4W x 4 3/4D

Configuration: 3-speaker sound system combination

Response: 120 Hz to 20 kHz, ±10 dB re 85 dB SPL at 1 meter at 1 watt

Max power: 20 watts (13 dBW)

Impedance: 8 ohms

Driver size: 4 1/4"

Magnet: 12 oz.

Mounting: Flush

Features: Consists of woofer, direct radiator, tweeter, and 3-position brilliance control

**C9729**

Price: $45

Configuration: Woofer/whizzer cone

Response: 40 Hz to 14 kHz

Max power: 25 watts

Impedance: 8 ohms

Driver size: 6 x 9"

Magnet: 20 oz

Mounting: Flush

**C9862**

Price: $44

Configuration: Woofer/whizzer cone

Response: 60 Hz to 12 kHz

Max power: 25 watts

Impedance: 8 ohms

Driver size: 5 1/4"

Magnet: 20 oz

Mounting: Flush

**C9728**

Price: $40

Configuration: Woofer/whizzer cone

Response: 70 Hz to 12 kHz

Max power: 20 watts

Impedance: 8 ohms

Driver size: 4"

Magnet: 10 oz

Mounting: Flush

**C9860**

Price: $39

Configuration: Woofer/whizzer cone

Response: 70 Hz to 12 kHz

Max power: 20 watts

Impedance: 8 ohms

Driver size: 4"

Magnet: 10 oz

Mounting: Flush

**LS-95**

Price: $170

Dimensions: 6H x 7 1/4W x 3D

Configuration: 2-way

Response: 40 Hz to 18 kHz, ±2 dB

Min power: 10 watts (10 dBW)

Max power: 50 watts (17 dBW)

Impedance: 4 ohms

Driver size: 6 1/4" woofer, 1" dome tweeter

Magnet: 13 oz.

Mounting: Cast-aluminum baffle

Features: Die-cast aluminum mounting baffle; 12-inch woofers, 2-inch tweeter

**LS-80**

Price: $160

Dimensions: 3 1/2H x 7 1/4W x 1L

Configuration: 2-way

Response: 45 Hz to 20 kHz, ±4 dB

Min power: 10 watts (10 dBW)

Max power: 80 watts (18 dBW)

Impedance: 8 ohms

Driver size: 6 1/2" woofer, 2" tweeter

Magnet: 20 oz.

Mounting: Cast-aluminum baffle

Features: Die-cast aluminum baffle; surface mount over 6" x 9" or 5 1/4" round hole

**LS-40**

Price: $135

Dimensions: 3H x 6W x 10L

Configuration: 2-way

Response: 45 Hz to 20 kHz, ±2 dB

Min power: 10 watts (10 dBW)

Features: Includes high-impact, heat-resistant grilles

**LOVE SOUND**

Love Sound, Inc.

2065 Martin Ave. #113

Santa Clara, Calif. 95050

**LAFAYETTE**

Lafayette Electronics

111 Jericho Tpke.

Syosset, N.Y. 11791

**Triple Play**

Price: $49.99/pr.

Dimensions: 6H x 9W

Configuration: 3-way

Response: 50 Hz to 20 kHz

Max power: 30 watts (14.75 dBW)

Impedance: 8 ohms

Mounting: Flush

Features: Includes high-impact, heat-resistant grilles

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<tr>
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<th>Dimensions</th>
<th>Configuration</th>
<th>Response</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-5000</td>
<td>$300/pr</td>
<td>7 9/32H x 11 5/32W x 7 9/32D (less mounting bracket)</td>
<td>2-way</td>
<td>30 Hz to 20 kHz, (DIN) re 81 dB SPL at 1 meter at 1 watt</td>
<td>250 watts (24 dBW)</td>
<td>4 ohms</td>
<td>61/2&quot; x 5&quot;</td>
<td>13 oz.</td>
<td>Flush/surface</td>
<td>Same as Model LS-80, Features: Front insertion design with snap-on grille, Strontium-type magnet equivalent to 20 oz. ceramic type</td>
</tr>
<tr>
<td>SS-569</td>
<td>$130</td>
<td>91/4H x 61/4W x 4D</td>
<td>5-way</td>
<td>40 Hz to 20 kHz</td>
<td>30 watts</td>
<td>8 ohms</td>
<td>6&quot; x 9&quot;</td>
<td>20 oz.</td>
<td>Surface</td>
<td></td>
</tr>
<tr>
<td>SS-3469</td>
<td>$110</td>
<td>91/4H x 61/4W x 31/4D</td>
<td>4-way</td>
<td>40 Hz to 18 kHz</td>
<td>30 watts</td>
<td>8 ohms</td>
<td>6&quot; x 9&quot;</td>
<td>20 oz.</td>
<td>Flush</td>
<td></td>
</tr>
<tr>
<td>SS-3410</td>
<td>$80</td>
<td>10H x 41/4W x 21/4D</td>
<td>2-way</td>
<td>50 Hz to 20 kHz</td>
<td>20 watts</td>
<td>4 ohms</td>
<td>4&quot; x 10&quot;</td>
<td>10 oz.</td>
<td>Flush</td>
<td></td>
</tr>
<tr>
<td>SS-3357</td>
<td>$100/pr</td>
<td>4W x 11/4D</td>
<td>Full-range</td>
<td>60 Hz to 14 kHz</td>
<td>10 watts</td>
<td>4 ohms</td>
<td>4&quot;</td>
<td>10 oz.</td>
<td>Flush</td>
<td></td>
</tr>
</tbody>
</table>

**Models also available**

- SS-5100, $250/pr.
- SS-469, $110/pr.
- SS-3269, $80/pr.
Features Also available as MA-0069-20CP, which includes 2 speakers, grilles, wiring, and hardware.

**MA-0525-020C**
- **Price**: $30.56
- **Configuration**: 2-way
- **Response**: 50 Hz to 20 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 4 ohms (round)
- **Driver size**: 6" x 9"
- **Mounting**: Flush
- **Features**: Also available as MA-0525-20CP, which includes 2 speakers, grilles, wiring, and hardware.

**MITSUBISHI**
Mitsubishi Audio Systems
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

**SX-30SA**
- **Price**: $149.95
- **Configuration**: 2-way
- **Response**: 80 Hz to 20 kHz, ±3 dB
- **Max power**: 50 watts (17 dBW)
- **Impedance**: 4 ohms
- **Driver size**: 4" x 4"
- **Mounting**: Flush
- **Features**: Aluminum die-casting enclosure

**Models also available**
- SX-10BA, $124.95
- SG-69TA, $99.95
- SG-20CA, $99.95
- SG-40CA, $64.95
- SG-69WA, $49.95
- SG-16EA, $49.95

**MOTOROLA**
Motorola, Inc.
Automotive Products Div.
1299 E. Algonquin Rd.
Schaumburg, Ill. 60196

**M41-20T**
- **Price**: $134.95
- **Dimensions**: 10H x 4W x 3½D
- **Configuration**: 3-way
- **Response**: 55 Hz to 16 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 6 ohms
- **Driver size**: 4" x 10"
- **Mounting**: Flush
- **Features**: 1” voice coil; one-piece ceramic magnet

**D69-20T**
- **Price**: $119.95/pr.
- **Dimensions**: 9H x 6W x 3½D
- **Configuration**: 3-way
- **Response**: 45 Hz to 18 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 6 ohms
- **Driver size**: 6” x 9”
- **Mounting**: Flush
- **Features**: 2 ½” midrange; 2” tweeters; one-piece ceramic magnet

**M68-15C**
- **Price**: $99.95/pr.
- **Dimensions**: 8H x 6W x 3½D
- **Configuration**: 2-way
- **Response**: 55 Hz to 15 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 6 ohms
- **Driver size**: 6” x 8”
- **Mounting**: Flush
- **Features**: 1” voice coil; one-piece ceramic magnet

**D69-20C**
- **Price**: $89.95/pr.
- **Dimensions**: 9H x 6W x 3½D
- **Configuration**: 2-way
- **Response**: 45 Hz to 15 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 6 ohms
- **Driver size**: 6” x 9”
- **Mounting**: Flush
- **Features**: 1” voice coil; 2” tweeters; one-piece ceramic magnet

**D5-20C**
- **Price**: $77.95/pr.
- **Dimensions**: 5¼H x 2½D
- **Configuration**: 2-way
- **Response**: 65 Hz to 14 kHz
- **Max power**: 25 watts (14 dBW)
- **Impedance**: 6 ohms
- **Driver size**: 5¼”
- **Mounting**: Flush
- **Features**: Ceramic magnet; 1” voice coil; 2” tweeters

**D5-10C**
- **Price**: $66.95/pr.
Models also available M4 -10C, $89.95/pr; M5 -Mounting 4H x 4W x 13/4D, $94.95/pr; M5 -20C, $104.95/pr.

Features Mounting flush or surface

PIONEER Pioneer Electronics of America 1925 E. Dominguez St. Long Beach, Calif. 90810

TS-X9 Price $239.95
Configuration 2-way
Response 50 Hz to 22 kHz
Max power 40 watts (16 dBW)
Driver size 3½" woofer; 1" dome tweeter
Mounting Surface

TS-W203 Price $189.95
Configuration Woofer
Response 28 Hz to 10 kHz
Max power 60 watts (16.5 dBW)
Driver size 8"
Magnet 20 oz.
Features Fits 6" x 9" opening

TS-696 Price $139.95
Configuration 2-way
Response 35 Hz to 18 kHz
Max power 40 watts (16 dBW)
Driver size 8" x 9"
Magnet 20 oz. (high efficiency)
Features Crossover frequency at 4 kHz; 2½" midrange

TS-X6 Price $124.95
Configuration 2-way
Response 80 Hz to 20 kHz
Max power 20 watts (13 dBW)
Driver size 4" woofer; 4" passive radiator; 2½" tweeter
Mounting Surface

POWER DRIVE Recoton Corp. 46-23 Crane St. Long Island City, N.Y. 11101

CS-265 Price $64.95
Configuration 2-way
Response 40 Hz to 16 kHz

Models also available M66-1ST, $129.95/pr.; M41-20C, $104.95/pr.; M5-20C, $94.95/pr.; M5-10C, $89.95/pr.; M4-10C, $74.95/pr.; D3-4W, $34.95/pr.

Features Thin design

REALISTIC Radio Shack 1400 One Tandy Center Ft. Worth, Texas 76102

12-1854 Price $79.95/pr.
Dimensions 6½ x 10W x 2¾D
Configuration 3-way
Response 50 Hz to 15 kHz
Max power 20 watts (13 dBW)
Impedance 8 ohms
Driver size 5½" woofer; 2½" midrange; 2" tweeter
Magnet 5.7 oz.
Mounting Surface

Models also available TS-202, $219.00; TS-695, $159.95; TS-168, $139.95; TS-694, $95.95; TS-693, $91.95; TS-692, $73.95; TS-691, $59.95; TS-162DX, $59.95; TS-121, $51.95; TS-160, $41.95; TS-5, $29.95

PYRAMID Pyramid Industries 12970 Branford St. Arleta, Calif. 91331

PMS-5A Price $164.95
Configuration 3-way
Response 25 Hz to 22 kHz, ±3 dB re 114 dB SPL at 1 meter at 1 watt
Max power 40 watts (16 dBW)
Impedance 4 ohms
Driver size 6" x 9" Magneto 20 oz.
Mounting Flush
Features Dual voice-coil subwoofer handles frequencies from 20 Hz to 300 Hz; two sealed back midranges handle frequencies from 300 Hz to 4.5 kHz; multifaced tweeter for directional surface mount applications

PMS-2A Price $109.95
Configuration 3-way
Response 35 Hz to 20 kHz, ±3 dB re 104 dB SPL at 1 meter at 1 watt
Max power 40 watts (16 dBW)
Impedance 4 ohms
Driver size 6" x 9" 2½" tweeter Magneto 16 oz.
Mounting Flush
Features Stereo or biampl connection available

PSB PSB Speakers, Inc. P.O. Box 144 St. Jacobs, Ontario Canada, NOB 2N0

PSB Alpha Price $110
Dimensions 4H x 8W x 5O
Configuration 2-way
Response 80 Hz to 20 kHz, ±2 dB
Min power 20 watts (13 dBW)
Impedance 4 ohms
Driver size 3 9/10" woofer, 1" tweeter
Mounting Surface
Features Mounting bracket and hardware included; speaker shaped to fit into rear deck of car
### ROAD SOUNDS

**Suntron**
425 7th St. N.W.
Washington, D.C. 20004

**RS 3000**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>$70</td>
<td>6H x 9½W x 1D</td>
<td>3-way</td>
<td>15 watts</td>
<td>30 watts</td>
<td>8 ohms</td>
<td>5½&quot; x 5½&quot;</td>
<td>20 oz.</td>
<td>Surface</td>
<td></td>
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</tbody>
</table>

Models also available
- RS-693, $40
- RS-694, $50
- RS-543, $40

**ROYAL SOUND**

**Royal Sound Co., Inc.**
248 Buffalo Ave.
Freeport, N.Y. 11520

**RS-6100**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
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<tbody>
<tr>
<td>$300/pr.</td>
<td>6H x 9W x 3½D</td>
<td>3-way</td>
<td>2 watts</td>
<td>25 watts</td>
<td>8 ohms</td>
<td>6&quot; x 9&quot;</td>
<td>20 oz.</td>
<td>Surface</td>
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</table>

Models also available
- RS-694, $50; RS-543, $40

**SANYO**

Sanyo Electric Co.
1200 West Artesia Blvd.
Compton, Calif. 90220

**SK-522T**

<table>
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<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
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<th>Magnet</th>
<th>Mounting</th>
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<tbody>
<tr>
<td>$59.95</td>
<td>41½H x 4½W x 2⅛D</td>
<td>3-way</td>
<td>25 watts</td>
<td>50 watts</td>
<td>8 ohms</td>
<td>3½&quot; x 2½&quot;</td>
<td>10 oz.</td>
<td>Surface</td>
<td></td>
</tr>
</tbody>
</table>

Models also available
- SK-700V, $89.95; SK-6922T, $99.95; SK-622T, $49.95; SK-4120C, $47.95

**TENNA**

**Tenna Corp.**
19201 Cranwood Parkway
Cleveland, Ohio 44128

**HE-481**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$139.95</td>
<td>7¼H x 4 7/16W x 4⅛D</td>
<td>2-way</td>
<td>60 watts</td>
<td>100 watts</td>
<td>8 ohms</td>
<td>5½&quot; x 5½&quot;</td>
<td>20 oz.</td>
<td>Surface</td>
<td></td>
</tr>
</tbody>
</table>

**CO-620RM**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$59.95</td>
<td>7H x 3½W x 3D</td>
<td>2-way</td>
<td>20 watts</td>
<td>50 watts</td>
<td>8 ohms</td>
<td>4½&quot; x 4½&quot;</td>
<td>20 oz.</td>
<td>Surface</td>
<td></td>
</tr>
</tbody>
</table>

**TRIFLEX**

**Orovox Sound**
11545 Tuxford Ave.
Sun Valley, Calif. 91352

**TR-2001**

<table>
<thead>
<tr>
<th>Price</th>
<th>Dimensions</th>
<th>Configuration</th>
<th>Min power</th>
<th>Max power</th>
<th>Impedance</th>
<th>Driver size</th>
<th>Magnet</th>
<th>Mounting</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$63.90</td>
<td>7H x 9W x 6D</td>
<td>2-way</td>
<td>15 watts</td>
<td>30 watts</td>
<td>8 ohms</td>
<td>4½&quot; x 4½&quot;</td>
<td>20 oz.</td>
<td>Flush</td>
<td>Wire mesh grilles</td>
</tr>
</tbody>
</table>

**Fidelity's Buying Guide to Stereo Components**
### TRUSONIC

**10530 Lawson River Ave.**

Fountain Valley, Calif. 92708

---

**K-6943**

- **Price:** $175
- **Dimensions:** 9½H x 6 2/5W x 4 1/5D
- **Response:** 25 Hz to 25 kHz, ±4 dB re 98 dB SPL at 1 meter at 1 watt
- **Min power:** 3 watts (4.75 dBW)
- **Max power:** 120 watts (20.75 dBW)
- **Impedance:** 4 ohms
- **Driver size:** 6" x 9"
- **Magnet:** 40 oz.
- **Mounting:** Flush/surface
- **Features:** Chromed cast frame; 1½" voice coil; biampable; waterproof construction; 5-year warranty; hardware included

---

**K-6942**

- **Price:** $145
- **Dimensions:** 9½H x 6 2/5W x 4 1/5D
- **Configuration:** 2-way
- **Response:** 25 Hz to 25 kHz, ±4 dB re 98 dB SPL at 1 meter at 1 watt
- **Min power:** 3 watts (4.75 dBW)
- **Max power:** 120 watts (20.75 dBW)
- **Impedance:** 4 ohms
- **Driver size:** 6" x 9"
- **Magnet:** 40 oz.
- **Mounting:** Flush/surface
- **Features:** Chromed cast frame; 1½" voice coil; biampable; waterproof construction; 5-year warranty; hardware included

---

**K-6941**

- **Price:** $120
- **Dimensions:** 9½H x 6 2/5W x 4 1/5D
- **Configuration:** Subwoofer
- **Response:** 25 Hz to 2 kHz, ±3 dB re 97 dB SPL at 1 meter at 1 watt
- **Min power:** 3 watts (4.75 dBW)
- **Max power:** 90 watts (19.5 dBW)
- **Impedance:** 4 ohms
- **Driver size:** 6"
## Home Video Equipment

### AKAI

**Akai America, Ltd.**
2139 East Del Amo Blvd.
Compton, Calif. 90224

**VT-350**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capability</th>
<th>Tape width</th>
<th>Format</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio resp.</td>
<td>100 Hz to 10 kHz, ±3 dB</td>
<td>1/2&quot;</td>
<td>Akai</td>
<td>5H x 10 1/4W x 11 1/2D</td>
<td>$2,195</td>
</tr>
<tr>
<td>Video S/N</td>
<td>41 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$2,195</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>43 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 103/4W x 11 1/2D</td>
<td>$1,095 to $1,995</td>
</tr>
<tr>
<td>Auto timer</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 10 1/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 10 1/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 103/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 10 1/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 10 1/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>5H x 103/4W x 11 1/2D</td>
<td>$1,245</td>
</tr>
</tbody>
</table>

### JVC VIDSTAR

**JVC America Co.**
58-75 Queens Midtown Expressway
Maspeth, N.Y. 11378

**HR-4100**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capability</th>
<th>Tape width</th>
<th>Format</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Monitor CRT</td>
<td>Optional</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>TV hookups</td>
<td>Optional</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Bat. power</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Slow-motion</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Stop-motion</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>B/W camera</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Color camera</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
<tr>
<td>Features</td>
<td>Portable (21 lbs.); standard accessories include battery, built-in switchable RF adapter; AC/battery-charger adapter</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,250</td>
</tr>
</tbody>
</table>

### HR-3600

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capability</th>
<th>Tape width</th>
<th>Format</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Monitor CRT</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>TV hookups</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Bat. power</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Slow-motion</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Stop-motion</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>B/W camera</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Color camera</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
<tr>
<td>Features</td>
<td>Remote pause; still frame; double-speed play</td>
<td>B/W</td>
<td>VHS</td>
<td>5 1/4H x 13 1/4W x 13D</td>
<td>$1,245</td>
</tr>
</tbody>
</table>

## High Fidelity's Buying Guide to Stereo Components

### CURTIS MATHES

**Curtis Mathes Sales Co.**
One Curtis Mathes Parkway
Athens, Tex. 75751

**C648R**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capability</th>
<th>Tape width</th>
<th>Format</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio resp.</td>
<td>100 Hz to 8 kHz (SP); 100 Hz to 6 kHz (LP); ±3 dB</td>
<td>1/2&quot;</td>
<td>VHS (4-hour)</td>
<td>6 1/16H x 19 11/16W x 15 1/16D</td>
<td>$4,000</td>
</tr>
<tr>
<td>Video S/N</td>
<td>42 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>6 1/16H x 19 11/16W x 15 1/16D</td>
<td>$4,000</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>6 1/16H x 19 11/16W x 15 1/16D</td>
<td>$4,000</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>6 1/16H x 19 11/16W x 15 1/16D</td>
<td>$4,000</td>
</tr>
</tbody>
</table>

### BETAVISION

**Sears Roebuck Co.**
Sears Tower
Chicago, Ill. 60684

**5305**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capability</th>
<th>Tape width</th>
<th>Format</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Off-air tuning</td>
<td>No</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Audio S/N</td>
<td>40 dB</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
<tr>
<td>Auto timer</td>
<td>Yes</td>
<td>B/W</td>
<td>VHS</td>
<td>7 7/10H x 19 4/5W x 15 4/5 D</td>
<td>$885</td>
</tr>
</tbody>
</table>

### High Fidelity's Buying Guide to Stereo Components

240
HR-3300

Price $1,050
Dimensions 53/4"H x 171/4"W x 123/4"D
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed No
Resolution 240 lines (color)
Video S/N 45 dB
Audio resp. 50 Hz to 10 kHz, +3 dB
Audio S/N 40 dB
Audio flutter 0.5%
Auto timer No
Off-air tuning Yes
Pause No
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Yes
Color camera No

Color camera No

MAGNAVOX
Magnavox Consumer Electronics Co.
1700 Magnavox Way
Fort Wayne, Ind. 46804

8252 Portable

Price $1,495 (sold only with master control unit)
Dimensions 51/2"H x 71/2"W x 14 1/8"D (record unit)
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed Yes
Resolution 270 lines (B/W), 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional
Color camera Optional
Features Electronic tuning-in master-control unit; battery-power switch; battery-charge jack; battery indicator lamp

8251 Portable

Price $1,395 (sold only with master control center)
Dimensions 53/4"H x 12 3/4"W x 14 1/4"D
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed Yes
Resolution 270 lines (B/W), 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional
Color camera Optional
Features Battery-charge jack; battery-charge lamp; mechanical tuning

8220

Price $1,075
Dimensions 7"H x 19 3/32"W x 15 D

Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed Yes
Resolution 270 lines (B/W); 230 (color)
Video S/N 40 dB
Audio resp. 100 Hz to 6 kHz
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Yes
Color camera Yes

Models also available
8225, $1,295

MITSUBISHI
Melco Sales, Inc.
3030 E. Victoria St.
Compton, Calif. 90221

HS-200U

Dimensions 61/4"H x 19 1/4"W x 13 1/2"D
Format VHS
Tape width 1/2"
Capability Color
Half-speed 2 to 6 hr.
Resolution 230 lines
Video S/N 45 dB (less because of 2/6 Hr.)
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera No
Color camera No
Features Programmable up to 6 programs in a week; electronic tape indexing; electronic touch tuning; 5 motors, direct drive

OMNIVISION VHS
Panasonic Co.
One Panasonic Way
Secaucus, N.J. 07024

PV-2200

Price $1,525
Dimensions 51/2"H x 12 1/2"W x 14 1/4"D (VTR unit); 51/2"H x 7 5/8"W x 15 1/4"D (tuner adapter)
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed Yes
Resolution 230 lines
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional
Color camera Optional
Features Electronic tuning-in master-control unit; battery-power switch; battery-charge jack; battery indicator lamp

PV-1200

Price $1,095
Dimensions 6 1/4"H x 19 1/2"W x 15 1/2"D
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed (3 speeds: SP/LP/SLP)
Resolution 230 lines
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional (with AC/adapter)
Color camera Optional (with AC/adapter)
Features Microcomputerized programmable timer for 4 programs within one week; electronic tuner; up to 6 hours recording capability

PHILCO
GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

V-1100

Price N/A
Dimensions 61/4"H x 19 1/4"W x 15 1/2"D
Format VHS
Tape width 1/2"
Capability B/W, color
Resolution 240 lines
Video S/N 43 dB
Audio resp. 50 Hz to 10 kHz
Audio S/N 40 dB
Auto timer Yes
B&W camera Optional
Color camera Optional

QUASAR
Quasar Electronics Co.
Division of Matsushita Electric Corp. of America
9401 West Grand Ave.
Franklin Park, Ill. 60131

VH-5100

Price $1,350
Dimensions 7 1/2"H x 19 1/4"W x 15 1/2"D
Format VHS
Tape width 1/2"
Capability B/W, color
Half-speed Yes
Resolution 270 lines (B/W); 230 (color)
Video S/N 40 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera Optional (direct connectable)
Color camera Optional (direct connectable)
Features Three-speeds: SP/LP/SLP; electronic tape indexing; electronic touch tuning; 5 motors, direct drive

PV-1600

Price $1,295

1980 Edition

241
<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Dimensions</th>
<th>Format</th>
<th>Capabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>VH-5200 Portable</td>
<td>$1,150</td>
<td>5/8H x 12W x 12D</td>
<td>VHS</td>
<td>Color Camera Optional</td>
</tr>
<tr>
<td>VH-5500</td>
<td>$1,195</td>
<td>5/4H x 17 9/10W x 15 1/5D</td>
<td>Beta</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VCR-5500</td>
<td>$1,495</td>
<td>3 1/10H x 17 9/10W x 15 1/5D</td>
<td>Beta</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VCR-5000 Betacord III</td>
<td>$1,095</td>
<td>3 1/10H x 17 3/5W x 14 3/5D</td>
<td>Beta</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VTC-9100A</td>
<td>$995</td>
<td>7H x 19 1/2W x 14 1/2D</td>
<td>Beta</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VTC-400</td>
<td>N/A</td>
<td>7H x 19W x 15 1/2D</td>
<td>VHS</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VDT-201</td>
<td>$1,150</td>
<td>7H x 19W x 15 1/2D</td>
<td>VHS</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>SELECTAVISION RCA</td>
<td>N/A</td>
<td>600 North Sherman Drive, Indianapolis, Ind. 46201</td>
<td>Beta</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>SHARP</td>
<td></td>
<td></td>
<td></td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VDT-600</td>
<td>$1,395</td>
<td>6H x 19W x 16D</td>
<td>VHS</td>
<td>B&amp;W Camera Optional</td>
</tr>
<tr>
<td>VCT-6800</td>
<td>$1,395</td>
<td>6H x 19W x 16D</td>
<td>VHS</td>
<td>B&amp;W Camera Optional</td>
</tr>
</tbody>
</table>

**SANYO**

Sanyo Electric, Inc. 1200 West Artesia Blvd. Compton, Calif. 90220

**VCR-5500**

- **Price:** $1,495
- **Dimensions:** 3 1/10H x 17 9/10W x 15 1/5D
- **Format:** Beta
- **Tape width:** 1/2"
- **Color:** B/W, color
- **Half-speed:** 2 speeds for recording; auto play-back
- **Resolution:** 240 lines (color); 250 lines (monochrome)
- **Video S/N:** 45 dB (luminance); 35 dB (chrominance)
- **Audio resp.:** 50 Hz to 70 kHz, +3, -4.5 dB
- **Audio flutter:** 0.15%
- **Auto timer:** Yes
- **Off-air tuning:** Yes
- **Pause:** Yes
- **Monitor CRT:** Yes
- **TV hookup:** Yes
- **Slow-motion:** Yes
- **Stop-motion:** Yes
- **Color camera:** Optional
- **Features:** Seven-day clock/timer; remote control unit with "Betascan" advances or rewinds at 20 times normal playing speed with picture; variable speed slow motion; one-touch record; live picture and sound recording capability; video and audio outputs; automatic shut-off with "sleep" timer; freeze frame with single frame advance; electronic touch controls

**VCR-5000 Betacord III**

- **Price:** $1,095
- **Dimensions:** 3 1/10H x 17 3/5W x 14 3/5D
- **Format:** Beta
- **Tape width:** 1/2"
- **Color:** B/W, color
- **Half-speed:** Yes (2-speed)
- **Resolution:** 240 lines (color); 250 lines (monochrome)
- **Video S/N:** 43 dB (luminance); 35 dB (chrominance)
- **Audio resp.:** 50 Hz to 70 kHz, +3, -4.5 dB
- **Audio flutter:** 0.15%
- **Auto timer:** Yes
- **Off-air tuning:** Yes
- **Pause:** Yes
- **Monitor CRT:** Yes
- **TV hookup:** Yes
- **Slow-motion:** Yes
- **Stop-motion:** No
- **Color camera:** Optional
- **Features:** Remote pause control; built-in all channel tuners; micro-touch controls; digital clock/timer; audio dubbing capability; automatic shut-off sleep switch; easy connect to any TV set

**VTC-9100A**

- **Price:** $995
- **Dimensions:** 7H x 19 1/2W x 14 1/2D
- **Format:** Beta
- **Tape width:** 1/2"
- **Color:** B/W, color
- **Capability:** B/W, color
- **Resolution:** 250 lines (B/W); 240 lines (color)
- **Video S/N:** 43 dB
- **Audio resp.:** 50 Hz to 7 kHz, +3 dB
- **Audio S/N:** 40 dB
- **Auto timer:** Yes
- **Off-air tuning:** Yes
- **Pause:** Yes
- **Monitor CRT:** Optional
- **TV hookup:** Yes
- **Bat. power:** No
- **Slow-motion:** No
- **Stop-motion:** No
- **B&W camera:** Optional
- **Color camera:** Optional
- **Features:** Instant stop/start with remote control for on-the-air editing; built-in all-channel tuner; built-in connector to any TV set; simple one-finger operation; video inputs and outputs, automatic shut-off with "sleep" switch; audio output [jack for stereo play; instant replay capabilities; memory counter; LED clock/timer

**SELECTAVISION RCA**

600 North Sherman Drive Indianapolis, Ind. 46201

**VCT-400**

- **Price:** N/A
- **Dimensions:** 7H x 19 1/4W x 15 1/4D
- **Format:** VHS
- **Tape width:** 1/2"
- **Capability:** Color
- **Half-speed:** Yes (2 to 6 hrs.)
- **Auto timer:** Yes
- **Off-air tuning:** Yes
- **Pause:** Pause only
- **Monitor CRT:** No
- **TV hookup:** Yes
- **Bat. power:** No
- **Slow-motion:** No
- **Stop-motion:** No
- **B&W camera:** Optional (Model BW005, Model BW007)
- **Color camera:** Optional (Model CC003 or CC004)
- **Features:** Remote pause switch with 20 camera; digital channel display using electronic TV tuners with pushbutton channel selection; any four programs on any received TV channels can be selected for unattended recording during a one-week period; in fast-forward mode, the unit will stop automatically at start of each recorded program; unit will automatically revert to TV mode when VCR power is off; backup circuit eliminates clock and memory failure during short-term power interruptions

**VDT-201**

- **Price:** $1,150
- **Dimensions:** 7H x 19W x 15 1/2D
- **Format:** VHS
- **Tape width:** 1/2"
- **Capability:** Color
- **Half-speed:** Yes (2 to 6 hrs.)
- **Auto timer:** Yes
- **Off-air tuning:** Yes
- **Pause:** Pause only
- **Monitor CRT:** No
- **TV hookup:** Yes
- **Bat. power:** No
- **Slow-motion:** No
- **Stop-motion:** No
- **B&W camera:** Optional (Model BW005, Model BW007)
- **Color camera:** Optional (Model CC003 or CC004)
- **Features:** Remote pause switch with 20 camera; unit can be timed to turn on and off automatically for unattended recording

**SHARP**

Sharp Electronics Corp. 10 Keystone Place Paramus, N.J. 07652

**VCT-6800**

- **Price:** $1,395
- **Dimensions:** 6H x 19 1/4W x 16D
- **Format:** VHS
- **Tape width:** 1/2"
- **Capability:** Color
- **Half-speed:** 2 speed (2 to 6 hrs.)
- **Resolution:** 240 lines
- **Video S/N:** 45 dB
- **Pic. flutter:** 0.4%
- **Audio resp.:** 70 Hz to 9 kHz, ±3 dB
- **Audio S/N:** 40+ dB
- **Auto timer:** Yes

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SONY BETAMAX
Sony Corp. of America
9 West 57th St.
New York, N.Y. 10019

SL-3000 Portable
Price $1,299
Dimensions 5¼ x 11¼W x 11¼D
Format Betamax
Tape width ¾ in
Capability B/W, color
Half-speed No
Resolution 240 lines (color); 250 lines (B/W)
Video S/N 45 dB
Audio resp. 50 Hz to 8 kHz, ± 1 dB
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power Yes
Slow-motion No
Stop-motion No
B&W camera No
Color camera Yes
Features Portable (20 lbs.); maximum battery recording time, 1 hour; AC recording time is 3 hours; memory rewind, automatic shutoff; audio dubbing, off-air record option; optional tuner-timer; battery level indicator; auxiliary hookups for earphone and microphone jacks; dew warning light and built-in heater; hook-in to car/boat phone and microphone lacks; dew warning light; battery level indicator; auxiliary hookups for ear-dubbing, off-air record option; optional tuner-timer.

SL-5400
Price $1,250
Dimensions 6½H x 19¼W x 15½D
Format Betamax
Tape width ¾ in
Capability B/W, color
Resolution 250 lines (monochrome); 240 lines (color)
Video S/N 45 dB
Audio resp. 50 Hz to 10 kHz
Audio S/N 40 dB
Auto timer Yes
B&W camera Yes
Color camera Optional

Sylvania
GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

VC-2500
Price N/A
Dimensions 6½H x 19¼W x 15½D
Format VHS
Capability B/W, color
Resolution 240 lines
Video S/N 43 dB
Audio S/N 40 dB
Auto timer Yes
B&W camera Optional
Color camera Optional

RCA Selectavision VCT-400

Toshiba America, Inc.
280 Park Ave.
New York, N.Y. 10017

V-5310
Price $1,095
Dimensions 7½H x 19¼W x 15½D
Format Beta
Tape width ½'
Capability B/W, color
Half-speed Yes
Resolution 240 lines (color)
Video S/N 42 dB
Audio resp. 50 Hz to 8 kHz, ± 3 dB
Audio S/N 42 dB
Auto timer Built-in
Off-air tuning Yes
Pause Pause only
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion No
B&W camera Optional (Model TA-11)
Color camera Optional (Model 1610)
Features Audio dubbing (voice over pK); built-in remote pause

Zenith
Zenith Radio Corp.
1000 Milwaukee Ave.
Glenview, Ill. 60025

VR-9000W
Price $1,195
Dimensions 6½H x 19¼W x 15D
Format Beta II and III
Tape width ½'
Capability B/W, color
Half-speed No
Resolution 240 lines (color); 250 lines (B/W)
Video S/N 45 dB
Audio resp. 50 Hz to 7 kHz
Audio S/N 40 dB
Auto timer Yes
Off-air tuning Yes
Pause Yes
Monitor CRT No
TV hookup Yes
Bat. power No
Slow-motion No
Stop-motion Yes
B&W camera Optional
Color camera Optional
Features Remote control with speed search; PCM switch; electronic touch-command channel selection; audio dub; AFC

1980 Edition
Signal Processors
(including Noise-Reduction units)

<table>
<thead>
<tr>
<th><strong>ADVENT</strong></th>
<th>Advent Corp.</th>
<th>195 Albany St.</th>
<th>Cambridge, Mass. 02139</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model 500 SoundSpace</strong></td>
<td><strong>Control</strong></td>
<td><strong>Description</strong></td>
<td>Acoustic simulator</td>
</tr>
<tr>
<td></td>
<td><strong>Price</strong></td>
<td>$150</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Delay</strong></td>
<td>10 ms to 100 (variable)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Decay</strong></td>
<td>0 to 1.5 sec (variable)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Response</strong></td>
<td>30 Hz to 13 kHz, +1, -3 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>THD</strong></td>
<td>Direct (front) 0.03% (IHF); delayed (rear) 0.5% max THD (IHF)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Noise</strong></td>
<td>83 dB reference 3V</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Features</strong></td>
<td>32,000-bit RA memory</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ADS</strong></th>
<th>Analog &amp; Digital Systems</th>
<th>One Progress Way</th>
<th>Wilmington, Mass. 01887</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADS-10 Acoustic Dimension</strong></td>
<td><strong>Synthesizer</strong></td>
<td><strong>Description</strong></td>
<td>Built-in amplification, matching</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Price</strong></td>
<td>$595</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Delay</strong></td>
<td>10 ms to 100 (variable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Decay</strong></td>
<td>0 to 1.5 sec (variable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Response</strong></td>
<td>30 Hz to 6 kHz; 6 kHz to 20 kHz (direct)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>THD</strong></td>
<td>0.1% (rear channels for 1.5V input at 1 kHz; front channels, unity gain)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Noise</strong></td>
<td>83 dB reference 3V</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Outputs</strong></td>
<td>2 main, 2 tape, 2 power amp</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Features</strong></td>
<td>Digital display of delay and delay times, LED input level indicators, LED expanders, level indicators, front-channel delay for stage depth, headphone amplifier with ambient mix, remote defeat jack; additional outputs for 6/8 channel operation; compatible with any preamp; tape monitor or speaker outputs; automatic defeat of between-song dialogue on radio broadcasts; tape monitor facilities; individual input/output level controls; balance control</td>
</tr>
</tbody>
</table>

| **ADS 10-01 Acoustic Dimension** | **Synthesizer** | **Description** | Similar to model ADS-10, but without amp or speakers |
| | | **Price** | $700 |
| | | **Delay** | 10 ms to 100 (variable) |
| | | **Decay** | 0 to 1.5 sec (variable) |
| | | **Response** | 30 Hz to 13 kHz, +1, -3 dB |
| | | **THD** | 0.03% (front); 0.3% (rear) at 1 kHz |
| | | **Noise** | 83 dB reference 3V |
| | | **Features** | 2 ambience channels; de-

<table>
<thead>
<tr>
<th><strong>AUDIENCE OF OREGON</strong></th>
<th>Audionics, Inc.</th>
<th>10950 S.W. 5th, # 160</th>
<th>Beaverton, Ore. 97005</th>
</tr>
</thead>
</table>
| **Model 1000 Time-Delay** | **Description** | Ambience simulator, with dynamic range expander, using multiple re-

| **Space and Image Composer** | **Description** | Four-channel SQ decoder with Tape Directional Enhancement System |
| | | **Price** | $799 |
| | | **Response** | 20 Hz to 20 kHz, +1 dB |
| | | **THD** | 0.2% (20 Hz to 20 kHz) |
| | | **Noise** | 70 dB reference 250 mV input |

<table>
<thead>
<tr>
<th><strong>CONCERT MACHINE</strong></th>
<th>Sound Concepts, Inc.</th>
<th>P.O. Box 135</th>
<th>Brookline, Mass. 02146</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AD-1060</strong></td>
<td><strong>Description</strong></td>
<td>Ambience restoration system; time delay with built-in amplifiers generates 2 ambience channels, designed especially for car stereo systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Price</strong></td>
<td>$300</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Delay</strong></td>
<td>10 milliseconds to 70 (variable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Response</strong></td>
<td>10 Hz to 6 kHz, ±3 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>THD</strong></td>
<td>1% (kHz)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Noise</strong></td>
<td>60 dB A reference below max. output</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Outputs</strong></td>
<td>Stereo line (H-Z1V); stereo and mono speaker lever</td>
</tr>
</tbody>
</table>

High Fidelity's Buying Guide to Stereo Components
### VFX-2A Crossover

**Description:** Continuously variable linear crossover

**Price:** $389

**Features:**
- Max input, 10V; max output, 10V; continuously variable, active, solid-state filters which can be used to perform either crossover or bypass functions; two filters per channel, each continuously variable from 20 Hz to 20 kHz; filter rolloff fixed at 18 dB per octave, which eliminates any noticeable dip in the frequency spectrum at crossover points when properly adjusted; sharp rolloff also quickly attenuates unwanted frequencies above and below crossover.

### 3BX Expander

**Description:** Three-frequency-band linear expander

**Price:** $650

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### 2BX Expander

**Description:** Two-band linear expander

**Price:** $450

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### 1BX Expander

**Description:** Single-band linear expander

**Price:** $245

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### 124 dbx II System

**Description:** Four-channel dbx II noise-reduction system

**Price:** $275

**Features:**
- Input 30 Hz to 20 kHz, ±0.5 dB

### 122 dbx II System

**Description:** Two-channel dbx II noise-reduction system

**Price:** $199

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### 118 Compressor/Expander

**Description:** Wideband linear compressor/expander or peak limiter/unlimiter

**Price:** $250

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### 21 Tape/Disc Decoder

**Description:** dbx type II noise-reduction decoder for playback of dbx-encoded discs or tapes

**Price:** $109

**Features:**
- Input 15 Hz to 30 kHz, ±0.5 dB, NR out

### DRAGO

**Description:** Single-band expander

**Price:** $550

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### Digital Expander

**Description:** 3-band expander

**Price:** $550

**Features:**
- Input 20 Hz to 20 kHz, ±0.5 dB

### FURMAN SOUND

**Description:** Mono spring-type reverb system with limiter and equalization

**Price:** $250

**Features:**
- Input 1:1 to 1:1.6 dB/dB

### KVARK-TEKNIK

**Description:** Mono spring-type reverb system

**Price:** $250

**Features:**
- Input 1:1 to 1:1.6 dB/dB

### DN-70 Digital Time Processor

**Description:** Single-channel

**Price:** $1,600

**Features:**
- Input 15 Hz to 30 kHz, ±0.5 dB

### DN-36 Analogue Time Processor

**Description:** Single-channel, dual-delay with effects include phasing, flanging, reverb

**Price:** $1,600

**Features:**
- Input 15 Hz to 30 kHz, ±0.5 dB

---

1980 Edition
<table>
<thead>
<tr>
<th><strong>THD</strong></th>
<th><strong>0.1% (20 Hz to 20 kHz)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>246</strong></td>
<td><strong>High Fidelity's Buying Guide to Stereo Components</strong></td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td><strong>$379</strong></td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td><strong>10 Hz to 20 kHz, ±0.5 dB</strong></td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td><strong>0.2% (20 Hz to 10 kHz)</strong></td>
</tr>
<tr>
<td><strong>IM</strong></td>
<td><strong>0.05%</strong></td>
</tr>
<tr>
<td><strong>Noise</strong></td>
<td><strong>100 µV (80 dBV)</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td><strong>Ref. level, 0.24V to 0.77V (variable); suppression, 5 to 14 dB tape-hiss reduction depending on program; up to 38 dB at 10 kHz</strong></td>
</tr>
</tbody>
</table>

| **TNE 7000A Noise Suppressor** |
| **Description** | **Impulse suppressor (eliminates suble random clicks and pops)** |
| **Price** | **$299** |
| **Response** | **20 Hz to 20 kHz, ±0.5 dB** |
| **THD** | **0.1% (20 Hz to 20 kHz)** |
| **IM** | **0.05%** |
| **Noise** | **40 µV (88 dBV)** |

| **LOGICAL SYSTEMS** |
| **Logical Systems** |
| **3314 H St.** |
| **Vancouver, Wash. 98663** |

| **8800 Dynamic Noise Filter** |
| **Description** | **Usable with tapes, records, AM, FM, connects to preamp or receiver with standard RCA phono plugs** |
| **Price** | **$249** |
| **Response** | **20 Hz to 20 kHz** |
| **THD** | **0.1% (20 Hz to 20 kHz)** |
| **IM** | **0.01% (60 Hz to 7 kHz mixed 1:1), typically 0.005%** |
| **Noise** | **85 dB reference 2V** |
| **Attack** | **Program dependent (very fast)** |
| **Release** | **Program dependent (very fast)** |
| **Inputs** | **47K ohm single-ended stereo RCA phono** |
| **Outputs** | **600 ohm or greater; 10V max into 10K ohms** |
| **Features** | **Up to 15 dB hiss reduction; continuously variable threshold control; low-noise FET control circuitry with gyrate-type variable low-pass filter, tri-color LED display** |

| **MD 119 Comander** |
| **Description** | **Widelinear compressor/expander** |
| **Price** | **$149.94** |
| **Response** | **30 Hz to 20 kHz, ±1 dB** |
| **THD** | **0.15% (200 Hz to 20 kHz)** |
| **IM** | **0.75% (60 Hz to 7 kHz, 4:1)** |
| **Noise** | **-88 dBV (unweighted)** |
| **C/E Ratio** | **2.1/1.2 (fixed)** |
| **Tracking** | **±1 dB per 20 dB** |
| **Features** | **Level match control, bypass switch** |

| **NAMICHI** |
| **Nakamichi USA Corp.** |
| **1101 Colorado Ave. Santa Monica, Calif. 90401** |

| **Hi-Com II** |
| **Description** | **Two-band noise-reduction system with Telefunken High Com expander IC** |
| **Price** | **$420** |
| **Features** | **20-dB noise reduction plus 3 to 7 dB headroom improvement; defeatable infrasonic and multiplex filters; recommended for high-quality casetted decks** |

| **NIKKO** |
| **Nikko Audio** |
| **16270 Rayner St. Van Nuys, Calif. 91406** |

| **ATD-1 Time Delay Synthesizer** |
| **Description** | **Recreates ambience in live performances by adding reverberation and echo** |
| **Price** | **$450** |
| **Delay** | **17 ms to 128 ms (variable)** |
| **Decay** | **100 ms to 2 sec (variable)** |
| **Response** | **Main: 20 Hz to 20 kHz, -0.1 dB; delay: 20 Hz to 5 kHz, ±3 dB** |
| **THD** | **Main: 0.05% (20 Hz to 20 kHz); delay: 0.6% (500 Hz)** |
| **Noise** | **Main: 80 dB, delay: 60 dB (A-weighted)** |
| **Features** | **Three adjustable hall sizes; reverb, hall character, and stage distance control; input level adjustment with LED indicator; delay defeat switch; 2 or 4-channel switch; 2x1/2 x 19W x 13D** |

| **PACKBURN** |
| **Packburn Electronics** |
| **P.O. Box 335 Dewitt, N.Y. 13214** |

| **303 Audio Noise Supressor** |
| **Description** | **Continuous noise suppressor reduces both transient noises and hiss from a wide variety of recorded sound media, especially 78 rpm records** |
| **Price** | **$179.50** |
| **Response** | **±1/2 dB, 10 Hz to beginning of cutoff frequency varies from 3 kHz to 15 kHz in accordance with dynamics of program material, alternatively, a fixed cutoff frequency may be selected; meter in front panel reads cutoff frequency** |
| **IM** | **0.05%** |

| **101 Transient Noise Suppressor** |
| **Description** | **Reduces transient noises from wide variety of recorded sound media, especially 78 rpm records** |
| **Price** | **$1500** |
| **Response** | **10 Hz to 20 kHz, ±0.5 dB** |
| **IM** | **0.03% (60 Hz and 7 kHz, 4:1 at +4 VU 1.228V out)** |
| **Noise** | **80 dB reference +4 VU (1.228V out)** |
| **Inputs** | **600 ohms balanced line (transformerless) and single-ended HI Z Impedance** |
| **Outputs** | **600 ohms balanced line and single-ended low impedance** |
| **Features** | **Two separate processors for reduction of transient noises, processes vertical-cut records, lateral-cut records, stereo records, facilities for playing from either groove wall; rack-mountable; 5½H x 19W x 10D** |

| **PHASE LINEAR** |
| **Phase Linear Corp.** |
| **20121 48th Ave. W. Lynnwood, Wash. 98036** |

| **1000 Series Two** |
| **Description** | **Single-pass noise reduction system plus dynamic range expander** |
| **Price** | **$349.95** |
| **Response** | **20 Hz to 20 kHz, ±1 dB** |
| **THD** | **0.09% (20 Hz to 20 kHz)** |
| **IM** | **0.09%** |
| **Noise** | **90 dB reference 2V** |
| **Expansion** | **7.5 dB** |
| **Inputs** | **Main and tape** |
| **Outputs** | **Main and tape** |
| **Features** | **Provides 10 dB of noise reduction; compatible with Dolby and dbx** |

| **PSB** |
| **PSB Speakers, Inc. P.O. Box 144 St. Jacobs, Ontario Canada N0B 2N0** |

| **PSB InfraSonic Barrier** |
| **Description** | **Sophisticated low filter which sharply rolls off frequencies under 20 Hz, virtually eliminates problems caused by warped records, turntable rumble, and tone-arm/cartridges resonances** |
| **Price** | **$109** |
| **Response** | **20 Hz to 100 kHz, ±0.25 dB** |
| **THD** | **0.008%** |

| **RG DYNAMICS** |
| **RG Dynamics, Inc. 4448 West Howard St. Skokie, Ill. 60076** |

| **RG Pro-20W Dynamic Processor** |
| **Description** | **Upward and downward expander with peak unliniting** |
**A Note on Prices**

Prices shown in these pages are manufacturers' or importers' nationally advertised values, updated as is feasible by press time.

---

### Decay

- **Model 4100**
  - **Description**: Time delay ambience system
  - **Price**: $500
  - **Delay**: 15 ms to 70 ms (3 variable steps)
  - **Decay**: 0 to 100% (variable)

### SAE 5000

- **Description**: Impulse suppressor
  - **Price**: $225
  - **Response**: 20 Hz to 20 kHz, ±1 dB
  - **THD**: 0.05% (20 Hz to 5 kHz)
  - **IM**: 0.5%
  - **Noise**: 60 dB reference 2.5V

### Sound Concepts SD-550

- **Ambience Restoration System**
  - **Description**: Ambience simulator using "bucket-brigade" analogue delay line
  - **Price**: $700
  - **Response**: 20 Hz to 8 kHz, ±3 dB (delayed)
  - **THD**: 1% (1 kHz)
  - **Noise**: 65 dBa (min); 90 dBa (typical)
  - **Features**: Works with mono, stereo, or quad sources; does not require level machine in use; ambience reproducer, not a simulator

### SYMMETRY

- **Symmetry Audiophile Systems**
  - **101 Townsend St.
    San Francisco, Calif. 94107

### ACS-1 Electronic Crossover

- **Description**: An active crossover for stereo or mono use
  - **Price**: $650
  - **THD**: 0.01% (20 Hz to 20 kHz)
  - **IM**: 0.1%
  - **Noise**: 100 dB/m reference below 3V at unity gain
  - **Inputs**: IN, FROM TAPE (316/mV nominal)
  - **Outputs**: TO TAPE; OUT
  - **Features**: Adjustable threshold with indicating LED, two attack times, two release times (separately switchable); upward and down expansion modes; tape-monitor provisions
There's more to the world's best tape than the world's best tape.

Our reputation for making the world's best tape is due in part to making the world's best cassettes. In fact, we put more thought and more work into our cassettes than most manufacturers put into their tape. We do all this, because at Maxell we believe in a simple philosophy. To get great sound out of a cassette takes a lot more than just putting great tape into it.
<table>
<thead>
<tr>
<th>Company</th>
<th>Description</th>
<th>Address</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>AMPEX</td>
<td>Open Reel Tape</td>
<td>Ampex Corp.</td>
<td>401 Broadway, Redwood City, Calif.</td>
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<td>Grand Master</td>
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<td>1750 North Vine St. Los Angeles, Calif. 90028</td>
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<td>111 Jericho Tpke. Syosset, N.Y. 11791</td>
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<td>Empire Scientific Corp.</td>
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<td>1055 Stewart Ave. Garden City, N.Y. 11530</td>
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<td>350 Fifth Ave. New York, N.Y. 10001</td>
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<td>Irish Recording Tape</td>
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<td>270-278 Newtown Road Plainview, N.Y. 11803</td>
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### MAXELL
Maxell Corp. of America
60 Oxford Drive
Moonachie, N.J. 07074

<table>
<thead>
<tr>
<th>UD-XL Professional</th>
<th>Coating(s)</th>
<th>Low-noise, high-output, epiplexial</th>
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<tr>
<td>Base</td>
<td>Polyester</td>
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<td>Backing</td>
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<td>Length/Price</td>
<td>UD-XL50-120B, 7&quot;, 1,800', $14.00; UD-XL50-120B, 10&quot;, 2,500', $33.75; UD-XL35-180B, 10&quot;, 1,800', $36.00, $38.50</td>
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<td>Features</td>
<td>Back-coated tape</td>
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### Packaging BasePolyester Coating(s)

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<th>Supertape</th>
<th>Features</th>
<th>Mastering quality tape for critical music applications</th>
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<tr>
<td>FECr Series</td>
<td>Coating(s)</td>
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<tr>
<td>Length/Price</td>
<td>Standard 7&quot;, 1,200', $9.95; extra 7&quot;, 2,400', $12.95, extra, 10&quot;, 3,600', $25.99</td>
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<tr>
<td>Features</td>
<td>All-purpose economy tape</td>
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### Premium Quality

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<tr>
<td>Base</td>
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<tr>
<td>Backing</td>
<td>&quot;Post-track&quot;</td>
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<tr>
<td>Features</td>
<td>Multi-purpose tape providing full dynamic range; s/n 4 to 6 dB better than standard tapes</td>
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### REALISTIC
Radio Shack
1400 One Tandy Center
 Ft. Worth, Texas 76102

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<tr>
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<td>7&quot;, 1,800', $8.99</td>
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<tr>
<td>Features</td>
<td>Head-clearing leader tape</td>
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### Supertape

| Coating(s) | Premium |
| Base | Polyester |       |
| Backing | Hinged cardboard box |     |
| Features |                                  |

### TDK

| TDK Electronics Corp. 755 Eastgate Blvd. Garden City, N.Y. 11530 |
|---|---|---|---|---|
| Master Coating(s) | Low-noise, ferric, high-output |
| Base | Polyester |       |
| Backing | "Post-track" |     |
| Packaging | Cardboard box |       |
| Length/Price | Standard 7", 1,200', $9.95; extra 7", 2,400', $12.95, extra, 10", 3,600', $25.99 |
| Features | All-purpose economy tape |

### S (Superior)

| Spraymaster | Coating(s) | Low-noise, ferric |
| Base | Polyester |           |
| Backing | Cardboard box |       |
| Length/Price | Extra 7", 1,800', $7.69, standard, 10", 3,600', 18.59 |

### Cassette

| AMPEX | Ampex Corp. 401 Broadway Redwood City, Calif. 94063 |
|---|---|---|
| Grand Master II | Coating(s) | Ferricobalt |
| Base | Polyester |       |
| Backing | Norelco box |     |
| Length/Price | C-60, $4.19; C-90, $5.29 |
| Features | High bias, 70 ms equalization |

| Grand Master I | Coating(s) | Ferric |
| Base | Polyester |       |
| Backing | Norelco box |     |
| Length/Price | C-45, $3.39; C-60, $2.69; C-90, $3.79; C-120, $5.29 |
| Features | Normal bias, 120 ms equalization, high sensitivity |

| Plus | Coating(s) | Ferric, extra high output |
| Base | Polyester |       |
| Backing | Norelco box |     |
| Length/Price | C-45, $1.39; C-60, $1.69; C-90, $2.79; C-120, $4.19 |
| Features | Screw-shell, wide dynamic range |

| Lo-Noise | Coating(s) | Ferric, low-noise formulation |
| Base | Polyester |       |
| Backing | Norelco box |     |
| Length/Price | C-45, 99w; C-60, $1.29; C-90, $1.89; C-120, $3.39 |
| Features | Screw-shell |

| AUDIO MAGNETICS | Audio Magnetics Corp. 2602 Michelson Dr. Irvine, Calif. 92716 |
|---|---|---|
| LB (Audua) | Coating(s) | Low-noise, ferric, high-output |
| Base | Polyester |       |
| Backing | 1-micron thick back-treatment coating |
| Packaging | Cardboard box |       |
| Length/Price | Extra 7", 1,800', $11.49; standard, 10", 3,600', $29.19 |
| Features |                                  |

| L (Audua) | Coating(s) | Low-noise, ferric, high-output |
| Base | Polyester |       |
| Backing | Cardboard box |       |

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High Fidelity's Buying Guide to Stereo Components
High Performance II
Coating(s): Ferric, high bias
Base: Polyester
Packaging: Hinged plastic box
Length/Price: C-60, $2.99; C-90, $4.29

High-Performance
Coating(s): Ferric, high-output
Base: Polyester
Packaging: Hinged plastic box
Length/Price: C-45, $2.19; C-60, $2.49; C-90, $3.49; C-120, $4.49
Features: Instant-start record/play with special jam-proof mechanisms in see-through housing

CAPITOL
Capitol Magnetic Products
1750 North Vine St.
Los Angeles, Calif. 90028

Music Tape
Coating(s): Low-noise; ferric
Base: Polyester
Packaging: Hinged plastic box
Length/Price: C-45, $1.99; C-60, $2.49; C-90, $3.69; C-120, $4.99

CRITERION
Lafayette Electronics
111 Jericho Tpke.
Syosset, N.Y. 11791

Criterion XHE
Coating(s): Ferric
Base: Polyester
Packaging: Hinged plastic box
Length/Price: C-60, $2.99; C-90, $3.99; C-120, $4.99

DAK
DAK Industries
10845 Van Owen
North Hollywood, Calif. 91605

ML
Coating(s): High-energy ferric oxide, normal bias
Base: Polyester
Backing: Polyester
Packaging: Norelco box
Length/Price: ML-46, $1.49; ML-60, $1.76; ML-90, $2.49
Features: Deluxe screw-etched precision cassette housing

HEC
Coating(s): Low-noise; high-output, cobalt-doped
Base: Polyester
Backing: Polyester
Packaging: Hinged plastic box
Length/Price: C-40, $1.27; C-60, $1.57; C-90, $1.91; C-120, $2.96
Features: Ultra-high output

1980 Edition
<table>
<thead>
<tr>
<th>Base</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>Hinged plastic box</td>
</tr>
<tr>
<td>Length/Price</td>
<td>C-60, $2.95; C-90, $4.50; C-120, $5.85</td>
</tr>
<tr>
<td>Features</td>
<td>Low printthrough characteristics</td>
</tr>
</tbody>
</table>

**FUJI**

Fuji Photo Film, USA, Inc. 350 Fifth Ave. New York, N.Y. 10001

- **Packaging**
  - **Base**
  - **Coating(s)**
  - **Length/Price**
  - **Features**

**Metal**

- **Coating(s)** Metal particle
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-46, $3.70; C-60, $4.20; C-90, $5.25
- **Features** Normal bias and equalization

**FX-II**

- **Coating(s)** Beridox (chrome-equivalent ferric)
- **Base** Polyester
- **Backing** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-46, $4.50; C-60, $4.20; C-90, $5.80
- **Features** High bias

**EX**

- **Coating(s)** Low-noise, high-output, high-bias; pure ferrocrystal formulation
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $4.50; C-90, $5.80
- **Features** Special micro-precision cassette housing; 120 µS EQ

**REALISTIC**

Radio Shack 1400 One Tandy Center Ft. Worth, Texas 76102

- **Coating(s)** Chromium dioxide
- **Base** Mylar®
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $3.49; C-90, $4.49
- **Features** Head cleaning leader tape

**Supertape Chrome**

- **Coating(s)** Low-noise, high-performance
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-45, $2.99; C-60, $4.99; C-90, $6.99; C-120, $4.79
- **Features** Head cleaning leader tape

**Supertape Gold**

- **Coating(s)** Low-noise, ferric, high-output
- **Base** Polyester
- **Packaging** None
- **Length/Price** C-45, $2.79; C-60, $4.79; C-90, $6.79; C-120, $4.59
- **Features** Prices based on quantity-buying (1-22 tapes); prices lower when quantity increases

**Concertape**

- **Coating(s)** Ferric
- **Base** Polyester
- **Packaging** Package of 3
- **Length/Price** C-30, $1.99; C-60, $2.59; C-90, $3.39; C-120, $3.99
- **Features** New low-noise tape with hi-flux density oxide

**IRISH**

Irish Recording Tape 270-278 Newtown Road Plainview, N.Y. 11803

- **Coating(s)** Low-noise, ferric
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $2.85; C-90, $4.25

**IRISH**

- **Coating(s)** Ferric
- **Packaging** Mylar®
- **Length/Price** C-45, $1.95; C-60, $2.20; C-90, $3.00; C-120, $5.30

**IRISH**

- **Coating(s)** Ferric
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $2.50; C-60, $3.15

**IRISH**

- **Coating(s)** Ferric
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $2.59; C-45, $2.79; C-60, $2.99; C-90, $4.49; C-120, $5.99
- **Features** Memorex warranty

**MEMOREX**

Memorex Corp. San Tomas at Central Expressway Santa Clara, Calif. 95052

- **High Bias**
  - **Coating(s)** Ferricobalt
  - **Base** Polyester
  - **Packaging** Hinged plastic box; Philips-type; album delign
  - **Length/Price** C-60, $4.99; C-90, $5.99
  - **Features** Memorex warranty

**ZX (Metal)**

- **Coating(s)** Metal particle
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $8.95
- **Features** Ultra-high coercivity and reten-tivity; micro-precision plastic housing

**SX**

- **Coating(s)** High-output; high-coercivity; ionized cobalt on ferric oxide
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $5.50; C-90, $7.20
- **Features** CR02 replacement; high bias, 70 µs EQ; micro-precision plastic housing

**MAXELL**

Maxell Corp. of America 60 Oxford Drive Moonachie, N.J. 07074

- **Coating(s)** Low-noise; extra high-output; complex crystal ferricobalt
- **Base** Polyester
- **Packaging** Hinged plastic box; four-pack display box

**EX-II**

- **Coating(s)** Low-noise; epitalial
- **Base** Tensilized polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $5.25; C-90, $7.25
- **Features** High-level bias and equalization

**UD-XLII**

- **Coating(s)** High-output; epitalial
- **Base** Tensilized polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $4.50; C-90, $6.80
- **Features** Low printthrough characteristics

**UD-XLI**

- **Coating(s)** High-output; epitalial
- **Base** Tensilized polyester
- **Packaging** Hinged plastic box
- **Length/Price** UD-46, $3.70; UD-60, $4.00; UD-90, $4.10; UD-120, $7.90

**Supertape**

- **Coating(s)** Ferricchrome, high-coercivity; low-flux
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-45, $2.99; C-60, $3.99; C-90, $5.99; C-120, $5.39
- **Features** Head cleaning leader tape

**Supertape**

- **Coating(s)** Low-noise, ferric, high-output
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-45, $2.59; C-60, $2.99; C-90, $3.99; C-120, $4.19
- **Features** Head cleaning leader tape

**Concertape**

- **Coating(s)** Ferricchrome, high-coercivity; low-flux
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.49; C-60, $2.59; C-90, $3.59; C-120, $4.99
- **Features** High bias and equalization

**Rainbow Pack**

- **Coating(s)** Low-noise; extra high-output; complex crystal ferricobalt
- **Base** Polyester
- **Packaging** Hinged plastic box; four-pack display box

**EX-II**

- **Coating(s)** Low-noise; epitalial
- **Base** Tensilized polyester
- **Packaging** Hinged plastic box
- **Length/Price** UD-46, $2.50; UD-60, $2.85; UD-90, $3.95; UD-120, $5.45
- **Features** Standard bias

**FL**

- **Coating(s)** Low-noise, ferric
- **Packaging** Hinged plastic box
- **Length/Price** C-60, $2.50; C-90, $3.95; C-120, $5.45

**IRISH**

- **Coating(s)** Concertape
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.99; C-60, $2.59; C-90, $3.39; C-120, $4.99
- **Features** New low-noise tape with hi-flux density oxide

**Recoton**

Recoton Corp. 46-23 Crane St. Long Island City, N.Y. 10011

- **Coating(s)** Low-noise
- **Base** Mylar®
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.49; C-60, $1.89; C-90, $2.59; C-120, $3.19
- **Features** Ultra-high output; high-coercivity; ionized cobalt on ferric oxide

**Realistic**

- **Coating(s)** Low-noise, ferric, high-output
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.99; C-60, $2.59; C-90, $3.59; C-120, $4.99
- **Features** Head cleaning leader tape

**Realistic**

- **Coating(s)** Ferricchrome, high-coercivity; low-flux
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.49; C-60, $2.59; C-90, $3.59; C-120, $4.99
- **Features** High bias and equalization

**Recoton**

- **Coating(s)** Low-noise
- **Base** Mylar®
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.49; C-60, $1.89; C-90, $2.59; C-120, $3.19
- **Features** New low-noise tape with hi-flux density oxide

**Recoton**

- **Coating(s)** Ferricchrome, high-coercivity; low-flux
- **Base** Polyester
- **Packaging** Hinged plastic box
- **Length/Price** C-30, $1.49; C-60, $1.89; C-90, $2.59; C-120, $3.19
- **Features** New low-noise tape with hi-flux density oxide
**RKO**

**RKO Tape**

3 Fairfield Crescent  
West Caldwell, N.J. 07006

**RKO Audition XD**

Coating(s)  Ferric  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  C-90, $4.40; C-60, $3.15; C-45, $2.85  
Features  Higher than “chrome” tapes  

**RKO Broadcast I**

Coating(s)  Low-noise; ferric; high-output  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  C-90, $5.75; C-60, $3.79

**ROYAL SOUND**

Royal Sound Co., Inc.  
248 Buffalo Ave.  
Freeport, N.Y. 11520

**ULC**

Coating(s)  Ferric; high-performance  
Packaging  Hinged plastic box  
Length/Price  C-60, $3.50; C-90, $5.00  

**CDC**

Coating(s)  Chromium dioxide  
Packaging  Hinged plastic box  
Length/Price  C-60, $3.00; C-90, $4.50

**Low-Noise**

Coating(s)  Low-noise; ferric  
Packaging  Hinged plastic box  
Length/Price  C-45, $1.75; C-60, $2.00; C-90, $3.00; C-120, $4.00

**SCOTCH**

3M  
Magnetic Audio/Video  
Products Div.  
3M Center  
St. Paul, Minn. 55101

**Metafine**

Coating(s)  Metal particle  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  C-46, $6.25 (price); C-60, $6.95; C-90, $8.95  
Features  Metal particle formulation offers double maximum output of oxide tapes; 5 to 10 dB greater than “chrome” tapes

**Master III**

Coating(s)  Ferrichrome  
Base  Polyester  
Packaging  Hinged plastic box (C-Box; 40x additional)  
Length/Price  C-45, $4.19; C-60, $4.49; C-90, $5.69  
Features  Coating provides 3 dB improvement in output at low frequencies and 2 dB boost at high frequencies, compared to chrome and ferric-oxide tapes

**Master II**

Coating(s)  Chrome equivalent (70 ms equalization)  
Base  Polyester  
Packaging  Hinged plastic box (C-Box; 40x additional)  
Length/Price  C-45, $4.19; C-60, $4.49; C-90, $5.69  
Features  Coating offers 3 dB better S/N. 2 dB greater output sensitivity than standard chrome

**Master I**

Coating(s)  Ferric; high-performance (120 ms equalization)  
Base  Polyester  
Packaging  Hinged plastic box (C-Box; 40x additional)  
Length/Price  C-45, $3.59; C-60, $3.89; C-90, $5.09  
Features  Premium grade, low-noise ferric oxide

**Dynarange**

Coating(s)  Low-noise, high-output ferric  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  C-45, $2.55; C-60, $2.99; C-90, $4.19; C-120, $5.79  

**Highlander**

Coating(s)  Low-noise; ferric  
Base  Polyester  
Packaging  One-piece plastic box  
Length/Price  C-45, $1.19; C-60, $1.79; C-90, $2.69; C-120, $3.99  
Features  All purpose (voice-music) cassette

**SONY**

Sony Industries  
9 West 57th St.  
New York, N.Y. 10019

**FeCr Series**

Coating(s)  Low-noise, high-output, ferrichrome  
Base  Polyester  
Packaging  Hinged plastic box; blister pack  
Length/Price  FeCr-46, $4.20; FeCr-60, $4.60; FeCr-90, $5.90  
Features  Normal or FeCr bias; FeCr or 70 microsecond EQ

**EHF Cassette**

Coating(s)  Low-noise, ferric, high-output  
Base  Polyester  
Packaging  Hinged plastic box; blister pack  
Length/Price  EHF-46, $3.60; EHF-60, $4.00; EHF-90, $5.60  
Features  High or CrO₂ bias; CrO₂ or 70 microsecond bias

**SHF Series**

Coating(s)  Low-noise, ferric, high-output  
Base  Polyester  
Packaging  Hinged plastic box; blister pack  
Length/Price  SHF-46, $3.30; SHF-60, $3.70; SHF-90, $5.00  
Features  Normal bias; normal or 120 microsecond EQ

**HFX Series**

Coating(s)  Low-noise, ferric, high-output  
Base  Polyester  
Packaging  Hinged plastic box; blister pack  
Length/Price  HFX-46, $2.90; HFX-60, $3.10; HFX-90, $4.40; HFX-120, $6.00  
Features  Normal bias; normal or 120 microsecond EQ

**TDK**

TDK Electronics Corp.  
755 Eastgate Blvd.  
Garden City, N.Y. 11530

**MA-R (Metal)**

Coating(s)  Metal particle  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  MA-C-60, $3.19; MA-C-90, $4.59  
Features  High bias tape formulation; super precision mechanism with bubble surface liner sheet and double hub clamp assembly

**AD (Audiop)**

Coating(s)  Ferric  
Base  Polyester  
Packaging  Hinged plastic box or blister pack  
Length/Price  AD-C-45, $2.89; AD-C-60, $3.09; AD-C-90, $4.49; AD-C-120, $6.19  
Features  Normal bias with “high high end”; super precision mechanism incorporates bubble surface liner sheet and double hub clamp assembly

**D (Dynamic)**

Coating(s)  Low-noise; high-output; hi-grained ferric oxide  
Base  Polyester  
Packaging  Hinged plastic box or blister pack  
Length/Price  D-C-30, $1.75; D-C-45, $1.99; D-C-60, $2.19; D-C-90, $3.09; D-C-120, $3.79; D-C-180, $5.39  
Features  Precision mechanism; features bubble surface liner sheet and double hub clamp assembly

**EC (Empty Cassette)**

Coating(s)  Low-noise; ferric  
Base  Polyester  
Packaging  Hinged plastic box  
Length/Price  EC-20, $4.19; EC-30, $4.29; EC-60, $4.39; EC-90, $4.49; EC-120, $4.99; EC-180, $5.99  
Features  Continuous play with or without special sensing foil for use in answering machines

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**A Note on Prices**

Prices shown in these pages are manufacturers’ or importers’ nationally advertised values, updated as is feasible by press time.

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1980 Edition  
253
Video

AKAI
Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90224

Akai
Format VK-30, ½-in. cassette (black & white); VTC-25C, ¾-in. reel (color)
Coating(s) Ferric oxide
Length/Price VK-30, 30 min., $18; VTC-25C, 26 min., $13

AMPEX
Ampex Corp.
401 Broadway
Redwood City, Calif. 94063

Ampex
Format Beta
Coating(s) Ferric oxide
Length/Price L-250, 60 min., $13.49; L-500, 120 min., $16.95

BASF
BASF Systems, Inc.
Crosby Drive
Bedford, Mass. 01730

BASF
Format Beta
Coating(s) Ferric oxide
Length/Price L-500, 60 min., $16.95; L-750, 120 min., $20.95

BASF
Format VHS
Coating(s) Chrome
Length/Price T-60, 120 min., $17.95; T-120, 240 min., $24.95

FUJI
Fuji Photo Film USA, Inc.
350 Fifth Ave.
New York, N.Y. 10001

Beridox
Format Beta
Coating(s) Beridox
Length/Price L-125, 30 min., $11.95; L-250, 60 min., $13.25; L-370, 90 min., $14.90; L-500, 120 min., $17.50

Beridox
Format VHS
Coating(s) Beridox

IRISH
Irish Recording Tape
270-278 Newtown Road
Plainview, N.Y. 11803

551
Format Beta
Length/Price 60 min., $14.95; 120 min., $19.95;
180 min., $24.95
Features Sleeve-shrink wrapped

JVC
JVC America Co.
58-75 Queens Midtown
Expressway
Maspeth, N.Y. 11378

JVC
Format VHS
Coating(s) Ferric oxide
Length/Price T-30, 30 min., $14.75; T-60, 60 min., $16.95; T-120, 120 min., $23.95

MAGNAVOX
Magnavox Consumer Electronics Co.
1700 Magnavox Way
Fort Wayne, Ind. 46804

Magnavox
Format VHS
Coating(s) Ferric oxide
Length/Price AH-9202, 60 min., $18; AH-9204, 120 min., $26

MAXELL
Maxell Corp. of America
60 Oxford Dr.
Moonachie, N.J. 07074

Maxell
Format VHS
Coating(s) Epitaxial
Length/Price T-60, 60 min., $19.95; T-120, 120 min., $28.50

MEMOREX
Memorex Corp.
1600 Memorex Drive
Santa Clara, Calif. 95052

Memorex VHS
Format VHS
Coating(s) Ferric oxide
Length/Price Memorex, 30 min, N/A; Memorex, 60 min, N/A; Memorex, 120 min, N/A

PHILCO
GTE Consumer Electronics
700 Ellicott St.
Batavia, N.Y. 14020

PHILCO
Format VHS
Coating(s) Chrome-compatible ferric oxide
Length/Price T-60, 60 min., $18.95

QUASAR
Quasar Electronics Co.
Div. of Matsushita Electronics Corp. of America
9401 West Grand Ave.
Franklin Park, Ill. 60131

Quasar
Format VHS
Coating(s) Ferric oxide
Length/Price VCT-60, 60 min., $18.95; VCT-120, 120 min., $26.95

RCA
RCA Consumer Electronics
600 N. Sherman Drive
Indianapolis, Ind. 46201

RCA
Format VHS
Coating(s) Ferric oxide
Length/Price VK-125, 120 min., $18.95; VK-250, 240 min., $26.95

SANYO
Sanyo Electric Co.
1200 W. Artesia Blvd.
Compton, Calif. 90220

Sanyo
Format Beta
Coating(s) Chrome
Length/Price L-250, 60 min., $12.45; L-500, 120 min., $16.95; L-750, 180 min., $20.95

Sanyo
Format V-Cord II
Coating(s) Cobalt-doped ferrous
Length/Price V-60, 60 min., $14.95; V-120, 120 min., $19.95

SCOTCH
3M
Magnetic Audio/Video Products Div.
3M Center
St. Paul, Minn. 55101

Scotch
Format Beta
Coating(s) Chrome-compatible ferric oxide
Length/Price L-250, 30 min., $12.75; L-500, 60 min., $16.95

Scotch
Format VHS
Coating(s) Chrome-compatible ferric oxide
Length/Price T-60, 60 min., $18.95
<table>
<thead>
<tr>
<th>Brand</th>
<th>Format</th>
<th>Coating(s)</th>
<th>Length/Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEARS</td>
<td>Beta</td>
<td>Chromoxide</td>
<td>525, 60 min., $10.95; 5350, 120 min., $15.95; 5375, 180 min., $22.95</td>
</tr>
<tr>
<td>Sylvania</td>
<td>VHS</td>
<td>Ferric oxide</td>
<td>SC-2100 (T-60), 60 min., $19.95; SC-2101 (T-120), 120 min., $28.95</td>
</tr>
<tr>
<td>Sylvania</td>
<td>Beta</td>
<td>Chrome</td>
<td>L-250, 60 min., $12.45; L-500, 120 min., $16.95; L-750, 270 min., $20.95</td>
</tr>
<tr>
<td>Sylvania</td>
<td>Beta</td>
<td>Chrome</td>
<td>L-250, 60 min., $12.45; L-500, 120 min., $16.95; L-750, 270 min., $20.95</td>
</tr>
<tr>
<td>Toshiba</td>
<td>Beta</td>
<td>Chrome</td>
<td>L-250, 60 min., $12.45; L-500, 120 min., $16.95; L-750, 180 min., $20.95</td>
</tr>
<tr>
<td>Zenith</td>
<td>Beta</td>
<td>Chrome</td>
<td>L-250, 180 min., $16.95; L-750, 270 min., $20.95; L-830, 300 min., $22.95</td>
</tr>
</tbody>
</table>

*Features Blister pack available; compatible with all Beta-format video tape recorders.*

1980 Edition
### System Accessories
(including Tape & Phono Care products)

**ACE AUDIO**
Ace Audio Co.
532 Fifth St.
East Northport, N.Y. 11731

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000 Subsonic Filter</td>
<td>$19.95</td>
</tr>
<tr>
<td>Description</td>
<td>Price</td>
</tr>
<tr>
<td>Sharp-cut filter (18 dB/octave below 20 Hz) eliminates effects of record warps, tonearm/cartridge resonances, accidental style drops, and infrasonic rumble; circuitry has unity-gain IC op amp with full feedback, Class A operation, and self-contained power supply; high-input impedance, low output impedance</td>
<td>$39.50 (wired)/$59.25 (kit)</td>
</tr>
</tbody>
</table>

**5050 Electronic Speaker Protector**
Continually monitors amplifier output terminals and opens the speaker line when overload occurs

**5000 Electronic Crossover**
Designed especially for operation with any speaker system and a subwoofer; crossover at 100 Hz/18 dB/octave (other frequencies available at additional charge of $10); subwoofer level control; built-in bridging amplifier; distortion less than 0.025%; noise, -80 dB; defeat switch; crossover frequencies determined by accurate precision components

**Record Care System**
Self-contained record-cleaning system consisting of two directional brushes; one brush damp cleans the record surface, the other removes excess fluid; weighted to provide correct pressure

**Carbon-Fiber Record Sweep**
Easy-to-use dust remover and static reducer; thousands of conductive fibers sweep accumulated dust from record surface softly

**Carbon-Fiber Headshell**
Low-resonance low-mass carbon-fiber headshell features non-tarnishing gold-plated terminal pins for low loss and exceptional reliability

**ADD 'N STAC**
Royal Sound Co., Inc.
248 Buffalo Ave.
Freeport, N.Y. 11520

**Cassette Add 'N Stac**
Plastic storage unit holds 8 cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**8-Track Add 'N Stac**
Plastic storage unit holds 6 8-track cartridges in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**Record Add 'N Stac**
Add-on storage units can be snapped into Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**Beta Add 'N Stac**
Plastic storage unit holds 6 Betaformat video cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**VHS Add 'N Stac**
Plastic storage unit holds 6 VHS format video cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**Electronic Static Eliminator**
Piezoelectric static eliminating instrument; dual-emission chambers for wider dispersion and damped trigger for consistent effectiveness

---

**AUDIO ACCESSORIES**
A. Bee Sundicate, Inc.
230 Fifth Ave.
New York, N.Y. 10001

**C-25 Record Cleaner**
Insert record into envelope-like device, which cleans both sides at a time; no batteries required; removes dust and finger smudges; cleaning pads easily replaced

---

**ADCOM**
Adcom
11A Jules Lane
New Brunswick, N.J. 08901

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Add 'N Stac</td>
<td>$2.50</td>
</tr>
<tr>
<td>Price</td>
<td>$11.95</td>
</tr>
<tr>
<td>Add -on storage units can be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$3.50</td>
</tr>
<tr>
<td>6000 Electronic Crossover</td>
<td>$7.50</td>
</tr>
<tr>
<td>Choice of 15 frequencies from 200 Hz to 10 kHz at 12 dB/octave; custom frequencies available for additional $10; frequency components mounted on plug-in module; 2 tweeter-level controls; low distortion and noise; can be used with horn or dynamic speakers; adaptable to biamp or triamp operation</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$64.75 (kit)/$90 (wired)/ $27.50 (plug-in module)/ 220-volt models, $5 more</td>
</tr>
</tbody>
</table>

---

**AH-15 Tape Head Demagnetizer**
Designed especially for use with GX heads

**AS-3 Tape Splicer**
Price | $5.00 |

**CHR-1 Head Cleaning Fluid**
Price | $2.10 |

---

**AKAI**
Akai America, Ltd.
2139 E. Del Amo Blvd.
Compton, Calif. 90220

**Beta Add 'N Stac**
Plastic storage unit holds 6 Betaformat video cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

**VHS Add 'N Stac**
Plastic storage unit holds 6 VHS format video cassettes in Philips-type boxes; interlocking feature permits units to be snapped together in any configuration as the need for additional storage space arises; available in a variety of colors; pre-drilled holes in the back of every module facilitate hanging

---

**Demagnetizer**
Price | $29.95 |

**AS-3 Tape Splicer**
Price | $5.00 |

**CHR-1 Head Cleaning Fluid**
Price | $2.10 |
## Audio Aids

**Audio Works**  
840 Piner Road, Suite 14  
Santa Rosa, Calif. 95401

**Palo Alto, Calif. 94301**  
644 Emerson St.  
International Audio Developments

### Speaker Stands

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handcrafted from American Walnut hardwood and the finest cleaning fabric; each handle is hand-sanded, oiled and rubbed; may be used without any solution for light dust removal, but works best with AW-100 Cleaning Solution; after fabric surface is treated, the record is revolved under the record cleaner while the fabric surface is rolled against the direction of record travel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### AW-400 Stylus Cleaner

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handcrafted from American Walnut; uses a dense cleaning fabric drawn tightly over a metal form to provide a smooth surface that will not tangle with stylus cantilever</td>
<td>$36/pr. ($23/pr. black finish, angle only)</td>
</tr>
</tbody>
</table>

### AW-300 Walnut Record Cleaner

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handcrafted from American walnut hardwood and the finest cleaning fabric; each handle is hand-sanded, oiled and rubbed; may be used without any solution for light dust removal, but works best with AW-100 Cleaning Solution; after fabric surface is treated, the record is revolved under the record cleaner while the fabric surface is rolled against the direction of record travel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### AW-200 Record Cleaner

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designed to be used dry for light dust removal or with AW-100 Cleaning Solution for best cleaning and static reduction; after bristles are treated, the fabric surface is rolled against its direction of travel along the record grooves</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### AW-100 Individually Calibrated Cleaning Solution

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each bottle individually tested and guaranteed to be lower in residue than any solution on the market; antistatic and wetting agents to reduce viscosity; cleaning agents and germicides inhibit microscopic mold and bacteria growth; treated surfaces will reduce dust clumping static and thoroughly remove debris</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Audio Groome

**Empire Scientific Corp.**  
1055 Stewart Ave.  
Garden City, N.Y. 11530

### The Dry System Kit

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>All components necessary for complete day-to-day record and stylus care; includes static eliminator, dust eliminator, stylus cleaning fluid with brush, standard headshell, screw driver, housed in solid mahogany base with dust cover</td>
<td>$79.95</td>
</tr>
</tbody>
</table>

### Static Eliminator

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piston-shaped device; no batteries needed; produces ion stream to neutralize static charges on records</td>
<td>$39.95</td>
</tr>
</tbody>
</table>

### AW-100 Cleaning Solution

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel-like non-toxic chemical is applied directly to the record surface; dry film is peeled off, removing surface dirt; one container does 70 sides (35 ips)</td>
<td>$29.95</td>
</tr>
</tbody>
</table>

### Dust Eliminator

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon fiber bristles remove, trap, and lift off dust and debris from record grooves; neutralizes static hot spots</td>
<td>$19.95</td>
</tr>
</tbody>
</table>

### Gold Ended Cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shielded low capacitance cables with gold-plated RCA connectors; 1.5 meters (5'11&quot;) long; will replace most existing cables; separate ground wire minimizes ground loops</td>
<td>$10.95</td>
</tr>
</tbody>
</table>

### Anti-Static Mat

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon-fiber Impregnated record mat discharges static charge from record surface; can replace existing turntable mat; stroboscopic markings on mat</td>
<td>$8.95</td>
</tr>
</tbody>
</table>

### High-Definition Silver Cartridge Connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 strands of individually insulated silver wire with gold-plated push-on connectors on each end; improved &quot;skin-effect&quot; for improved transmission of high frequencies (set of four)</td>
<td>$7.95</td>
</tr>
</tbody>
</table>

### Stylus Cleaning Fluid and Brush

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid specifically designed to remove accumulation of dirt on styl; special cleaning brush included</td>
<td>$3.95</td>
</tr>
</tbody>
</table>

### Anti-Static, Anti-Dust Record Sleeves

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement sleeves for records; lined with a special vinyl film to minimize static charges and collection of dust on record's surface</td>
<td>$2.50 (package of 10)</td>
</tr>
</tbody>
</table>

## Audio Developments International

**Audio Developments International**  
644 Emerson St.  
Palo Alto, Calif. 94301

### 1000 Audio Spectrum Analyzer

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real-time spectrum analyzer with 10-band LED readout, built-in precision noise generator, supplied condenser calibrated microphone, and two memories for &quot;freeze-frame&quot; snapshots of display</td>
<td>$98.95</td>
</tr>
</tbody>
</table>

## Audio Aids

**Audio Works**  
840 Piner Road, Suite 14  
Santa Rosa, Calif. 95401

**Westbury, N.Y. 11590**  
B.I.C./Avnet

### Universal Vari-Tilt Speaker Stand

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raises speaker 10 inches above floor to eliminate bass boomboom; tilts speaker to any angle for precise dispersion; includes swivel casters; black nylon finish</td>
<td>$74.95/pr.</td>
</tr>
</tbody>
</table>

### Universal Speaker Wall Bracket

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holds up to 14-inch-deep, 30-lb. speakers; adjustable padded clamp holds speaker, swivels horizontally and vertically; black nylon finish</td>
<td>$39.95/pr.</td>
</tr>
</tbody>
</table>

## Bang & Olufsen

**Bang & Olusfen**  
515 Busse Road  
Elk Grove Village, Ill. 60007

### MC-40 Music Cabinet

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genuine rosewood, teak, or oak finish veneer; low profile cabinets for complete Beosystem; compartment for receiver, turntable, cassette deck, headphones and records; measures 24(\frac{1}{4})&quot; x 54&quot; x 16&quot;</td>
<td>$595</td>
</tr>
</tbody>
</table>

### MC-36 Music Cabinet

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as MC-40 except turntable goes on top; measures 24(\frac{1}{4})&quot; x 33(\frac{3}{4})&quot; X 16&quot;</td>
<td>$495</td>
</tr>
</tbody>
</table>

## Audionics of Oregon

**10953 S.W. 5th, #160**  
Beaverton, Ore. 97005

### FM-10 Beam Box

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor electronically directable FM antenna</td>
<td>$69.95</td>
</tr>
<tr>
<td>Description</td>
<td>Price</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>FM-8 Beam Box</td>
<td>$49.95</td>
</tr>
<tr>
<td>CAR-FI</td>
<td></td>
</tr>
<tr>
<td>Car-Fi International, Inc.</td>
<td></td>
</tr>
<tr>
<td>152 W. Cypress Ave.</td>
<td></td>
</tr>
<tr>
<td>Burbank, Calif. 91502</td>
<td></td>
</tr>
<tr>
<td>EXV-100 Electronic Crossover</td>
<td></td>
</tr>
<tr>
<td>Description: Designed for car stereo</td>
<td></td>
</tr>
<tr>
<td>systems; six selectable crossover</td>
<td></td>
</tr>
<tr>
<td>frequencies at 100, 200, 400, and 800</td>
<td></td>
</tr>
<tr>
<td>Hz, 1.6, and 3.2 kHz, as well as a flat</td>
<td>$49.95</td>
</tr>
<tr>
<td>setting, all BIFET circuitry for low</td>
<td></td>
</tr>
<tr>
<td>noise and distortion; balance control</td>
<td></td>
</tr>
<tr>
<td>between high/low outputs</td>
<td></td>
</tr>
<tr>
<td>CERWIN-VEGA</td>
<td></td>
</tr>
<tr>
<td>Cerwin-Vega, Inc.</td>
<td></td>
</tr>
<tr>
<td>12250 Montague Ave.</td>
<td></td>
</tr>
<tr>
<td>Arleta, Calif. 91331</td>
<td></td>
</tr>
<tr>
<td>DB-10 Bass Turbocharger</td>
<td></td>
</tr>
<tr>
<td>Description: Infrasonic filter/bass</td>
<td></td>
</tr>
<tr>
<td>booster eliminates infrasonic distortion</td>
<td></td>
</tr>
<tr>
<td>and noise below 20 Hz while boosting</td>
<td></td>
</tr>
<tr>
<td>information in 30 to 45 Hz range by</td>
<td></td>
</tr>
<tr>
<td>5 or 10 dB, allows doubling of</td>
<td></td>
</tr>
<tr>
<td>power handling capacity of Cerwin-Vega</td>
<td>$90</td>
</tr>
<tr>
<td>speakers</td>
<td></td>
</tr>
<tr>
<td>CROWN</td>
<td></td>
</tr>
<tr>
<td>Crown International</td>
<td></td>
</tr>
<tr>
<td>1718 W. Mishawaka Road</td>
<td></td>
</tr>
<tr>
<td>Elkhart, Ind. 46514</td>
<td></td>
</tr>
<tr>
<td>DBP-6 Phono Equalization Kit</td>
<td></td>
</tr>
<tr>
<td>Description: Allows adding capacitance</td>
<td></td>
</tr>
<tr>
<td>from 100 to 400 picoFarads on the</td>
<td></td>
</tr>
<tr>
<td>phono input of any preamp or receiver</td>
<td></td>
</tr>
<tr>
<td>in a few seconds; changes in</td>
<td></td>
</tr>
<tr>
<td>capacitance can make quickly.</td>
<td></td>
</tr>
<tr>
<td>100-ohm load provided for</td>
<td></td>
</tr>
<tr>
<td>experimentation with &quot;Y&quot; adapters, a</td>
<td></td>
</tr>
<tr>
<td>set of phono plugs with polystyrene</td>
<td></td>
</tr>
<tr>
<td>capacitors wired-in to give added</td>
<td></td>
</tr>
<tr>
<td>capacitance of 100, 150, 200, 300, and</td>
<td></td>
</tr>
<tr>
<td>400 picoFarads, metal film resistors</td>
<td></td>
</tr>
<tr>
<td>for a 100-ohm load, and a pair of spare</td>
<td></td>
</tr>
<tr>
<td>plugs</td>
<td>$24.95</td>
</tr>
<tr>
<td>DBP-10 Phono Alignment</td>
<td></td>
</tr>
<tr>
<td>Protractor</td>
<td></td>
</tr>
<tr>
<td>Description: Measures lateral</td>
<td></td>
</tr>
<tr>
<td>tracking error of cartridge mounted on</td>
<td></td>
</tr>
<tr>
<td>an arm to one-quarter of one degree;</td>
<td></td>
</tr>
<tr>
<td>instructions provided to optimize</td>
<td></td>
</tr>
<tr>
<td>geometry for minimum distortion</td>
<td>$19.95</td>
</tr>
<tr>
<td>DBP-8 Speaker Wire</td>
<td></td>
</tr>
<tr>
<td>Description: 12-gauge 2-conductor wire</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td></td>
</tr>
<tr>
<td>dbx, dbx (a BSR Co.)</td>
<td></td>
</tr>
<tr>
<td>71 Chapel St.</td>
<td></td>
</tr>
<tr>
<td>Waltham, Mass. 02195</td>
<td></td>
</tr>
<tr>
<td>DECCA</td>
<td></td>
</tr>
<tr>
<td>Rocelco, Inc.</td>
<td></td>
</tr>
<tr>
<td>1669 Flint Rd.</td>
<td></td>
</tr>
<tr>
<td>Downsview, Ontario M3J 2J7</td>
<td></td>
</tr>
<tr>
<td>&quot;Zero Control&quot; Decca Record Brush</td>
<td></td>
</tr>
<tr>
<td>Description: Conductive disc on handle</td>
<td></td>
</tr>
<tr>
<td>gives zero ohms resistance between</td>
<td></td>
</tr>
<tr>
<td>handle and bristles for improved</td>
<td></td>
</tr>
<tr>
<td>static drain; other features similar to</td>
<td></td>
</tr>
<tr>
<td>Decca record brush</td>
<td>$16.95</td>
</tr>
<tr>
<td>Decca Record Brush</td>
<td></td>
</tr>
<tr>
<td>Description: Consists of one million</td>
<td></td>
</tr>
<tr>
<td>conductive carbon fiber bristles, each</td>
<td></td>
</tr>
<tr>
<td>8 to 9 microns thick; bristles enter</td>
<td></td>
</tr>
<tr>
<td>record grooves to remove dust and static</td>
<td>$16.95</td>
</tr>
<tr>
<td>uses no fluids</td>
<td></td>
</tr>
<tr>
<td>Decca Record Cleaner</td>
<td></td>
</tr>
<tr>
<td>Description: Arm-type speaker, 20,000</td>
<td></td>
</tr>
<tr>
<td>conductive carbon fiber bristles,</td>
<td></td>
</tr>
<tr>
<td>ground wire to amplifier chassis for</td>
<td></td>
</tr>
<tr>
<td>complete static clean; interchangeable</td>
<td></td>
</tr>
<tr>
<td>cleaning bristles</td>
<td>$16.95</td>
</tr>
<tr>
<td>DenneSEN</td>
<td></td>
</tr>
<tr>
<td>DenneSEN Electronics</td>
<td></td>
</tr>
<tr>
<td>P.O. Box 51</td>
<td></td>
</tr>
<tr>
<td>Beverly, Mass. 01915</td>
<td></td>
</tr>
<tr>
<td>DISCWASHER</td>
<td></td>
</tr>
<tr>
<td>Discwasher Group</td>
<td></td>
</tr>
<tr>
<td>1407 N. Providence Road</td>
<td></td>
</tr>
<tr>
<td>Columbia, Mo. 65201</td>
<td></td>
</tr>
<tr>
<td>DiscKeeper</td>
<td></td>
</tr>
<tr>
<td>Description: Record rack with</td>
<td></td>
</tr>
<tr>
<td>calculated compression bar to prevent</td>
<td>$65</td>
</tr>
<tr>
<td>warpage, made of solid walnut and</td>
<td></td>
</tr>
<tr>
<td>anodized aluminum, wall-mounting</td>
<td></td>
</tr>
<tr>
<td>hardware included</td>
<td></td>
</tr>
<tr>
<td>DiscTraker</td>
<td></td>
</tr>
<tr>
<td>Description: Tonearm/cartridge damper;</td>
<td></td>
</tr>
<tr>
<td>attaches to headshell</td>
<td>$29</td>
</tr>
<tr>
<td>DiscFoot</td>
<td></td>
</tr>
<tr>
<td>Description: Turntable isolation system</td>
<td></td>
</tr>
<tr>
<td>consisting of four isolation pods, four</td>
<td></td>
</tr>
<tr>
<td>furniture-protective pads, four</td>
<td></td>
</tr>
<tr>
<td>platform caps for attachment to</td>
<td></td>
</tr>
<tr>
<td>turntable feet, and four special</td>
<td></td>
</tr>
<tr>
<td>damping sections to adapt units to</td>
<td></td>
</tr>
<tr>
<td>certain turntables</td>
<td>$22</td>
</tr>
<tr>
<td>Zerostat</td>
<td></td>
</tr>
<tr>
<td>Description: Antistatic gun</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$20</td>
</tr>
<tr>
<td>Discwasher System</td>
<td></td>
</tr>
<tr>
<td>Description: Record-cleaning system</td>
<td></td>
</tr>
<tr>
<td>consisting of soft-pile brush with D3</td>
<td></td>
</tr>
<tr>
<td>fluid in plastic bottle stored in handle</td>
<td>$15</td>
</tr>
<tr>
<td>DiscOrganizer</td>
<td></td>
</tr>
<tr>
<td>Description: Walnut storage tray with</td>
<td></td>
</tr>
<tr>
<td>dust-cover, holds Discwasher record</td>
<td></td>
</tr>
<tr>
<td>accessories</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$12.50</td>
</tr>
<tr>
<td>D-Stat II</td>
<td></td>
</tr>
<tr>
<td>Description: Soft, felt-like turntable</td>
<td></td>
</tr>
<tr>
<td>mat reduces electrostatic charges on</td>
<td></td>
</tr>
<tr>
<td>turntable</td>
<td>$8.50</td>
</tr>
</tbody>
</table>

High Fidelity's Buying Guide to Stereo Components
<table>
<thead>
<tr>
<th>Brand</th>
<th>Product</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold-Ens</td>
<td>Gold-plated connector cables</td>
<td>$8</td>
<td></td>
</tr>
<tr>
<td>SC-1 Stylus cleaner</td>
<td>Special brush of calculated-density nylon, magnifying mirror for viewing stylus, cantilever, and cartridge alignment; brush and mirror retract into walnut case for storage</td>
<td>$7</td>
<td></td>
</tr>
<tr>
<td>Hi-fi Seer Audio Equipment</td>
<td>Integral flashlight and mirror system to illuminate back panels of equipment; positive locking on/off switch; illuminates in three directions</td>
<td>$7</td>
<td></td>
</tr>
<tr>
<td>DiscLeads</td>
<td>Cartridge/headshell connectors with gold surface</td>
<td>$5.60</td>
<td></td>
</tr>
<tr>
<td>V.R.P. Record Sleeves</td>
<td>Smooth surface for scratch-free record removal; protects against &quot;stabilizer drift&quot;; antistatic compound reduces surface charge 80% over typical sleeves</td>
<td>$2.75 (package of 10)</td>
<td></td>
</tr>
<tr>
<td>D3 Fluid</td>
<td>Special fluid removes micro-dust, fingerprints, tobacco smoke, eliminates destructive biological growth; leaves no residue</td>
<td>$2.25</td>
<td></td>
</tr>
<tr>
<td>MRM 101 Music Recovery Module</td>
<td>Electronically identifies and suppresses pops, clicks and scratch sounds from records prior to connection to amplifier</td>
<td>$219.95</td>
<td></td>
</tr>
<tr>
<td>Ex-Static Carbon Fiber Platter Pad</td>
<td>Dual-purpose pad impregnated with carbon fibers to short out static charges on disc and isolate disc from turntable noise; put side to be played on the pad; turn over prior to play</td>
<td>$15</td>
<td></td>
</tr>
<tr>
<td>Ex-Static Carbon Fiber Record Brush</td>
<td>Over 1,000 fine carbon fiber bristles (electrically conductive) short out static bond between disc and dust; bristles sweep away dirt and static noise; detachable metal bracket drilled for mounting; brush cleaner on bracket</td>
<td>$15</td>
<td></td>
</tr>
<tr>
<td>Groove Tube</td>
<td>Walnut finish with velvet preener on top; cylinder shaped and completely replaceable with inexpensive refill kit</td>
<td>$14.95</td>
<td></td>
</tr>
<tr>
<td>Groove Tube II “The Ultimate Record Cleaner”</td>
<td>Dab fluid on disc while it is rotating; wipe with velvet buffing pad on side of applicator</td>
<td>$5.49</td>
<td></td>
</tr>
</tbody>
</table>
**“Deluxe” Tape Maintenance Kit**

**Description**: Includes demagnetizer (UL approved), 10 cotton swabs, untreated cleaning cloth, 2 oz. head-cleaning fluid containing 20% isopropyl alcohol, 0.05% detergent, demineralized and deionized water, and "How To" booklet

**Price**: $17.95

**“Deluxe” Record Care Maintenance Kit**

**Description**: Includes 4 oz. Sound Cleaner record cleaner, 2 oz. Stylus Cleaner, Stylus Mirror, 2 oz. record cleaning solution, and “How To” booklet

**Price**: $15.95

**Head Demagnetizer**

**Description**: All-purpose head demagnetizer; interchangeable tips (UL approved)

**Price**: $14.95

**“Sound Cleaner” Record Cleaner**

**Description**: Smoked plastic bottle with handgrip; pump and spray action with brush pad, which is attached to bottle for wet cleaning but can be removed for dry cleaning purposes; refillable

**Price**: $12.95

**Cassette Demagnetizer and Cleaner**

**Description**: Removes oxide deposits and residual magnetism from heads

**Price**: $4.95

**Cleaning Tonic**

**Description**: Contains isopropyl alcohol, detergent, demineralized and deionized water; 4 oz

**Price**: $3.95

**“Dustbuster” Record Cleaner**

**Description**: White triangular bottle with pump and brush pad; single unit construction; 4 oz bottle is refillable

**Price**: $3.95

**Stylus Cleaning Kit**

**Description**: Contains 2 oz. bottle with brush applicator enclosed in cap of bottle and “dental” mirror

**Price**: $3.95

**GRUNDIG**

**LAS Electronics East, Inc.**

**85C Saratoga Blvd. Island Park, N.Y. 11558**

**GAA-1100 Impedance Matching Cable**

**Description**: For one-piece stereo; adapts 2 x 20-watt amplifier

**Price**: $9.90

**GCA-7015 ESO accessory cable**

**Price**: $7.90

**GCA-4020 Speaker Cable**

**Price**: $1.40

**KA/KINETIC**

**KA/Kinetic Audio Intl., Ltd.**

**66244 W. Irving Park Road Chicago, Ill. 60634**

**Antistat**

**Description**: Piezoelectric record brush; piezoelectric generator produces ionized air to break dust’s static bind with record, then removes dirt from disc; no batteries; non-nuclear

**Price**: $14

**Record Cleaning Machine**

**Description**: Quickly removes all dirt and static from the record surface by scrubbing surface, then completely drying the record through a precision vacuum; consumer version available soon

**Price**: $1,885.84

**Record Sweeper**

**Description**: Grounded brush rests lightly on the record surface removing dust and static while the record plays; adjustable height and tracking weight; uses nonresonating animal hair in brush and copper wires to pick off static without touching record surface

**Price**: $124.15

**Pivot Sweeper**

**Description**: Same as Record Sweeper, except allows user to permanently attach base of unit to turntable and still remove brush arm

**Price**: $20.75

**Damped Leveling Kit**

**Description**: Four adjustable, self-adhesive, damped feet designed to level turntable as well as prevent feedback

**Price**: $16.95

**Record Weight**

**Description**: Round disc fits over spindle of single play turntables; weight (just under a pound) adds stabilization to turntable system while eliminating record warp and holding record firmly to the platter to eliminate record chatter while the record is playing; 60-cycle strobe mounted on top surface

**Price**: $13.70

**Record Care Kit**

**Description**: Contains plastic holder with velvet pad specially treated for removing dust from the record surface; few drops of antistatic solution are placed in the plastic handle to remove static without wetting the record surface; stylus brush also stored within the plastic handle

**Price**: $7.64

**LE-BO**

**LE-BO Products Co., Inc.**

**58-60 Grand Ave. Maspeth, N.Y. 11378**

**VCM-1002 Video Tape Cabinet**

**Description**: Holds 12 VHS or Betacord cartridges; made of wood

**Price**: $44.95

**TA-153 Tape Storage Cabinet**

**Description**: Holds 32 8-track cartridges or 34 cassette tapes; made of wood

**Price**: $29.95

**TA-266 Deluxe Attache Cassette Case**

**Description**: Holds 60 tapes; available in black, brown, and ginger finishes

**Price**: $21.95

**TA-145-Deluxe Padded Attache Case**

**Description**: Holds 45 tapes; available in brown, black, and ginger finishes

**Price**: $19.95

**TA-133 Deluxe Padded Attache Case**

**Description**: Holds 30 tapes, available in black, brown, and ginger finishes

**Price**: $14.95

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*High Fidelity's Buying Guide to Stereo Components*
<table>
<thead>
<tr>
<th>Name</th>
<th>Model/Description</th>
<th>Price</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGNAVOX</td>
<td>Magnavox/Consumer Electronics Co. 1700 Magnavox Way</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pt. Wayne, Ind. 46804</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8241 Video Camera</td>
<td>Lens, 6X, 1/2 zoom lens (17mm to 102mm); electronic</td>
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<tr>
<td></td>
<td>viewfinder (LED readouts for correct iris setting); AGC</td>
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<tr>
<td></td>
<td>on/off switch; battery compartment; tripod mount; om-</td>
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<td></td>
<td>nidirectional condenser microphone; VCR start/stop</td>
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<tr>
<td></td>
<td>switch; equipment includes 20’ camera cab-</td>
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<tr>
<td></td>
<td>ble, daylight filter, power supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$1,295</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICHELL ENGINEERING</td>
<td>Dick Wagner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5930 Penfield Ave. Woodland Hills, Calif. 91367</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record Clamp</td>
<td>Suede covered spindle clamp with strobe markings; fits</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>any standard turntable spindle; holds record flat,</td>
<td>$30</td>
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</tr>
<tr>
<td></td>
<td>removes small warps</td>
<td></td>
<td></td>
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<tr>
<td>Carbon Wire Sweep Arm</td>
<td>Finest squirrel hair dust brush with carbon grounding</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>wire filament; adjustable tracking weight</td>
<td>$20</td>
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<tr>
<td>MITSUBISHI</td>
<td>Melco Sales, Inc.</td>
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<tr>
<td></td>
<td>3030 E. Victoria St. Compton, Calif. 90221</td>
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<tr>
<td>DR-720 Equipment Rack</td>
<td>Vertical equipment rack with 5 component shelves and</td>
<td>$380</td>
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<tr>
<td></td>
<td>record storage; two pairs of glass doors provide</td>
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<td></td>
<td>access to the upper and lower compartments; finished</td>
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<tr>
<td></td>
<td>in black with aluminum trim</td>
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<td></td>
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<tr>
<td>Price</td>
<td>$380</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DR-707 Equipment Rack</td>
<td>Vertical equipment rack with glass doors and 4</td>
<td>$280</td>
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<tr>
<td></td>
<td>component shelves; finished in black with aluminum trim</td>
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<tr>
<td>Price</td>
<td>$280</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DA-M10 Power Level Meters</td>
<td>Designed for use with all Mitsubishi power amps; may</td>
<td>$170</td>
<td></td>
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<tr>
<td></td>
<td>be “docked” physically and electrically with each unit;</td>
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<tr>
<td></td>
<td>peak-reading meter scales calibrated from 1 mV to</td>
<td></td>
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<tr>
<td></td>
<td>200 W; front-panel range switch increases sensitivity</td>
<td></td>
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<tr>
<td></td>
<td>by 10 (readings from 0.1 mV to 20W; frequency re-</td>
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<td></td>
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<tr>
<td></td>
<td>sponse 20Hz-20 kHz, ± 0.2dB; THD 0.01% ; S/N 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>dB, gan 0dB (variable); input/output impedance 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ohms/600 ohms; response/- recovery time 10m sec/0.6sec</td>
<td></td>
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<tr>
<td></td>
<td>; front panel controls include power on/off, night and</td>
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<tr>
<td></td>
<td>left channel level and speaker selector switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>$170</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MONSTER CABLE**

| The Monster Cable Co.         | 101 Townsend St. San Francisco, Calif. 94107           |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| Monster Cable High Definition | Speaker Wire                                         |        |                                                                                             |
|                               | A heavy gauge dual parallel conductor speaker cable   | $20    |                                                                                             |
|                               | designed to optimize the interface between ampli-     |        |                                                                                             |
|                               | fier and speaker; 500 individual strands of copper in |        |                                                                                             |
|                               | a flexible clear vinyl jacket                         |        |                                                                                             |
|                               | MC-15/15 stereo pair, 15 ft. ea., $20; MC-15/25      |        |                                                                                             |
|                               | stereo pair, one 15 ft. plus one 25 ft.; $25; MC-20/  |        |                                                                                             |
|                               | 20 stereo pair, 20 ft. ea., $25; MC-20/30 stereo     |        |                                                                                             |
|                               | pair, one 20 ft. plus one 30 ft.; $30; MC-300         | $380   |                                                                                             |
|                               | professional spool, custom cut and terminated by     |        |                                                                                             |
|                               | dealer or installer, 60y/foot                         |        |                                                                                             |

**NAKAMICHI**

| Nakamichi USA Corp.           | 1101 Colorado Ave. Santa Monica, Calif. 90401          |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| T-100 Audio Analyzer         | Compact tape deck “test bench” includes oscillator    | $799.95|                                                                                             |
|                               | 11 Van frequencies from 20 to 20 kHz, pink-noise     |        |                                                                                             |
|                               | generator, distortion analyzer (400 Hz), A-weighting |        |                                                                                             |
|                               | noise filter, 3 kHz,woo-and-flutter/speed-accuracy     |        |                                                                                             |
|                               | meter, dual plasma bar-graph displays with peak (10    |        |                                                                                             |
|                               | msec) or “VU” (0.3 sec) ballistics, watt-scale        |        |                                                                                             |
|                               | graticule for power readings; carrying case and strap  |        |                                                                                             |
|                               | included                                          | $800   |                                                                                             |

**Diskmat**

| High mass turntable mat reduces noise transfer from motor, minimizes feedback, lessens wow and flutter; makes slightly warped records playable, reduces rumble; eliminates platter ringing | $25        |

**PERMOSTAT by STANTON**

| Stanton Magnetics, Inc.       | 200 Terminal Drive Plainview, N.Y. 11803                |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| Permostat by Stanton          | Fluid; eliminates static electricity permanently; each kit provides protection for 25 records (both sides) | $19.95 |                                                                                             |
|                               |                                                     |        |                                                                                             |
| PHASE LINEAR                  | Phase Linear Corp.                                    |        |                                                                                             |
|                               | 20121 48th Ave. W. Lynnwood, Wash. 98036              |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| 1200 Series Two-Real-Time     | Analyzer Description Precision room-analyzing instru-  | $799.95|                                                                                             |
|                               | ment consisting of 12-band display and filter bank satisfying ANSI standards, accurate pink noise generator, and calibrated microphone |
|                               |                                                     |        |                                                                                             |
| PIONEER                       | Pioneer Electronics of America 1925 East Dominguez     |        |                                                                                             |
|                               | St. Long Beach, Calif. 90810                          |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| AB-307 IC Noise Suppression   | System Description Reduces static and multipath dis-  | $34.95 |                                                                                             |
|                               | torsion; plug-in installation; for use with new Pioneer car radio/tape players |
|                               |                                                     |        |                                                                                             |
| PIXOFF                        | Sonic Research, Inc.                                   |        |                                                                                             |
|                               | 27 Sugar Hollow Rd. Danbury, Conn. 06810               |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| PIXOFF Record Cleaner         | Description Dry cleaner for phono records; roll-      | $17.50 |                                                                                             |
|                               | er-type device uses roll of special tape to clean discs, new tape surface exposed by cutting and peeling off dirty layer |
|                               |                                                     |        |                                                                                             |

**OSAWA**

<p>| Osaka &amp; Co. (USA), Inc.       | 521 Fifth Ave. New York, N.Y. 10017                     |        |                                                                                             |
|                               |                                                     |        |                                                                                             |
| PREMIER                       | Sumiko P.O. Box 5046 Berkeley, Calif. 94705             |        |                                                                                             |</p>
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF-1 Head Amplifier</td>
<td>Provides pre-preamplification for moving-coil cartridges; 2 phone inputs; DC powered; 3 gain settings; 2 high-frequency EQ positions plus EQ bypass; feed-forward circuitry</td>
<td>$200</td>
</tr>
<tr>
<td>PSB</td>
<td>PSB Speakers, Inc. P.O. Box 144 St. Jacobs, Ontario Canada NOB 2N0</td>
<td></td>
</tr>
<tr>
<td>The Smaller PSB Speaker Stand</td>
<td>Finished in black vinyl; tilts back speaker; 15 lbs. a pair</td>
<td>$50/pr</td>
</tr>
<tr>
<td>REALISTIC</td>
<td>Radio Shack Corp. 1400 One Tandy Center Ft. Worth, Texas 76102</td>
<td></td>
</tr>
<tr>
<td>Pro Power Meter</td>
<td>Monitors output of stereo amp or receiver; large easy-to-read dual meters and LEDs; reads 0 to 200 watts rms at 8 or 4 ohms; vinyl veneer case</td>
<td>$49.95</td>
</tr>
<tr>
<td>Audio Power Meter</td>
<td>Monitors output of stereo amp or receiver; large, easy to read dual meters respond to short sound peaks; reads 0 to 100 watts rms at 8 or 4 ohms; no power required; walnut vinyl veneer case</td>
<td>$19.95</td>
</tr>
<tr>
<td>Turntable Shock Mounts</td>
<td>Dampens external vibrations that may be transmitted to tonearm; reduces associated distortion</td>
<td>$17.95</td>
</tr>
<tr>
<td>ELECTRONIC STATIC ELIMINATOR</td>
<td>Piezoelectric element and dual emission chambers disperse static charges on records; uses no batteries, liquids or external power</td>
<td>$14.95</td>
</tr>
<tr>
<td>Illuminated Tape-Head Demagnetizer</td>
<td>For all tape equipment; lighted tip</td>
<td>$12.95</td>
</tr>
<tr>
<td>Disc Sweeper</td>
<td>Carbon-fiber brush penetrates groove for safe, dry cleaning; reduces static</td>
<td>$9.95</td>
</tr>
<tr>
<td>Hydro-Store® Record Care System</td>
<td>Protects records and styli; composed of tiny glass beads, which retain cleaning fluid for weeks; cleaning fluid and stand included; solid rosewood handle</td>
<td>$9.95</td>
</tr>
<tr>
<td>Professional Stylus Brush</td>
<td>Brushed aluminum cap and handle; easy-view mirror; fine-cleaning fibers; liquid included</td>
<td>$8.95</td>
</tr>
<tr>
<td>Headphone Extension Cord</td>
<td>Coiled, 24’ shielded cable, standard stereo plug on one end, standard stereo jack on other</td>
<td>$7.99</td>
</tr>
<tr>
<td>Disc Saver</td>
<td>Preserves vinyl; virtually eliminates record wear</td>
<td>$7.95</td>
</tr>
<tr>
<td>Universal Tape-Head Demagnetizer</td>
<td>Especially for hard-to-reach tape heads; interchangeable tips</td>
<td>$7.95</td>
</tr>
<tr>
<td>Universal Tape Recorder Care Kit</td>
<td>Includes brush, straight and angled holder, mirror attachment to see around corners; over 50 possible tool combinations</td>
<td>$6.95</td>
</tr>
<tr>
<td>Tape-Head Demagnetizer</td>
<td>Pencil shaped; for use with cassette and open-reel recorders</td>
<td>$4.95</td>
</tr>
<tr>
<td>Stylus Microscope</td>
<td>Magnifies stylus tip for close inspection of diamond; detects dirt or wear, helps maintain life of stylus and promotes cleaner sound</td>
<td>$1.99</td>
</tr>
<tr>
<td>RECOTON</td>
<td>Recoton Corp. 46-23 Crane St. Long Island City, N.Y. 11101</td>
<td></td>
</tr>
<tr>
<td>AU-100 Audio Rack</td>
<td>3 shelves; record section divider; chrome trim, walnut finish</td>
<td>$79.99</td>
</tr>
<tr>
<td>V-100 Video Tape Cabinet</td>
<td>Holds 18 tapes Betamax or VHS</td>
<td>$41.99</td>
</tr>
<tr>
<td>Clean Sound II Record Cleaning System</td>
<td>Includes wood handle applicator, Clean Sound Solution, special pad-cleaning brush; replaceable applicator pads, hinged, smoked plastic storage case</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

**REFERENCE**

Reference Monitor International Inc; 2380 C Camino Vida Roble Carlsbad, Calif. 92008

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<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectra Disc Cushion</td>
<td>$49</td>
</tr>
<tr>
<td>Staticleaner Carbon-Fiber Disc Sweep</td>
<td>$39.90</td>
</tr>
<tr>
<td>Statibrush Carbon-Fiber Disc Cleaner</td>
<td>$16.90</td>
</tr>
<tr>
<td>ROBINS</td>
<td></td>
</tr>
<tr>
<td>Robins Industries</td>
<td></td>
</tr>
<tr>
<td>75 Austin Blvd.</td>
<td></td>
</tr>
<tr>
<td>Commack, N.Y. 11725</td>
<td></td>
</tr>
<tr>
<td>Model 25-011 Universal Head Demagnetizer</td>
<td>$9.95</td>
</tr>
<tr>
<td>SAN-SUI Electronics Corp.</td>
<td></td>
</tr>
<tr>
<td>1250 Valley Brook Ave.</td>
<td></td>
</tr>
<tr>
<td>Lyndhurst, N.J. 07071</td>
<td></td>
</tr>
<tr>
<td>MA-7 Rack Mountable Monitor Console</td>
<td>$330</td>
</tr>
<tr>
<td>AX-7 Mixer</td>
<td></td>
</tr>
<tr>
<td>Four hi-Z mic inputs (2 switchable for</td>
<td></td>
</tr>
<tr>
<td>guitar or line level) with individual 20 dB</td>
<td></td>
</tr>
<tr>
<td>level controls, pan pots, and selectic</td>
<td></td>
</tr>
<tr>
<td>ble feed to reverse (spring); switchangle</td>
<td></td>
</tr>
<tr>
<td>hi-level sources may be post-mixed with</td>
<td></td>
</tr>
<tr>
<td>primary mixer inputs; record mode switc</td>
<td></td>
</tr>
<tr>
<td>h between source, mixer, mixing busses,</td>
<td></td>
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<tr>
<td>or tape dubbing (3 decks); separate moni</td>
<td></td>
</tr>
<tr>
<td>tor switching and master level controls</td>
<td></td>
</tr>
<tr>
<td>2 additional switched output loops for</td>
<td></td>
</tr>
<tr>
<td>outboard signal processors</td>
<td>$300</td>
</tr>
<tr>
<td>PS-2P Extension Plug Adapter</td>
<td>$22</td>
</tr>
<tr>
<td>PS-1P Extension Plug Adapter</td>
<td>$18</td>
</tr>
<tr>
<td>PS-4C Stereo-Low Capacitance Pin Plug Cords</td>
<td></td>
</tr>
<tr>
<td>PS-5C Stereo-Low Capacitance Pin Plug Cords</td>
<td></td>
</tr>
<tr>
<td>PS-6C Stereo Low-Capacitance Phone Plug Cords</td>
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<tr>
<td>PS-7C Mono Low-Capacitance Phone Plug Cord</td>
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<tr>
<td>SANYO PLUS</td>
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<tr>
<td>Sanyo Electric, Inc.</td>
<td></td>
</tr>
<tr>
<td>1200 W. Artesia Blvd.</td>
<td>$8</td>
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### Descriptions and Prices

#### Spectra Disc Cushion
- Description: Triple layers of elastomers; surface is flat with properties that hold disc to cushion.
- Price: $49

#### Staticleaner Carbon-Fiber Disc Sweep
- Description: Arm of anodized metal removes static and dust while record plays; comes complete with static drain lead and lower base for B&O turntables.
- Price: $39.90

#### Statibrush Carbon-Fiber Disc Cleaner
- Description: Micro-fine carbon fiber conductive anodized handle allows greater conductivity, static and dust removal.
- Price: $16.90

#### ROBINS
- Description: Hand-held, AC-powered; designed for intermittent duty (2 min. on, 15 min. off); comes with two tips (both with plastic shields).
- Price: $9.95

#### SAN-SUI
- Description: FM/AM, omnidirectional AM antenna; picks up desired signals from 360-degree horizontal circle; improves AM signal-to-noise ratio as much as 20 dB.
- Price: $110

#### MA-7 Rack Mountable Monitor Console
- Description: Two-piece dual peak-hold meters read watts or dB; adjustable input sensitivity; 400 Hz/10 kHz calibration oscillator; amplifier for headphones or monitor speakers; two full-range monitor speakers; matte black finish.
- Price: $330

#### AX-7 Mixer
- Description: Four hi-Z mic inputs (2 switchable for guitar or line level) with in-
PLUS N-55 "Super D" Noise Reduction System
Description: Optimizes level sensing for superior audio performance; fluorescent peak-reading signal level meters; source/tape switch/MPX filter; companding noise reduction system; rack-mount capability; 11-3/4H x 171/4W x 111/4D with 2:1 expansion/compression ratio; 40 dB tape noise reduction; 0.08% THD; load B dynamic range
Price: $359.95

Sanyo E-55

Dustguard Turntable Mat
Description: Antistatic mat of special conductive foam drains off static charges generated when record is pulled out of its sleeve; strobe pattern included
Price: $5.95

Cassette Caddy
Description: C-Box car saddle with 5 boxes
Price: $9.95

SCOTT
H.H. Scott, Inc.
20 Commerce Way
Woburn, Mass. 01801

830A Audio Analyzer
Description: Ten-octave, built-in multi-frequency signal generator; visually confirms frequency response or SPL; useful in verifying system performance, optimizing loudspeaker placement and tape recorder bias and equalization; includes external microphone and test record
Price: $599.95

SHURE
Shure Bros., Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

SFG-2 Stylus Force Gauge
Description: Precision stylus force gauge detects excessive or insufficient tracking force; allows precise resetting of stylus force to maintain optimum trackability and sharply reduces wear on records and stylus tip
Price: $5.30

SME
Shure Bros. Inc.
222 Hartrey Ave.
Evanston, Ill. 60204

LCL-4 Low-Capacitance Cable
Description: Four-foot, low-capacitance cable designed for use with Shure/SME Series II or 3012 arms; capacitance including tone arm wiring is 75 pF
Price: $22.50

SONTEC
Sontec Electronics
10120 Marble Court
Cockeysville, Md. 21020

NFM-6X2 Microphone Mixer
Description: Transformerless Mixer, 6 inputs, 2 outputs; precision-ganged master
Price: $25.95

High Fidelity's Buying Guide to Stereo Components
**Realistic APM-200**

- **Description**: level control; pan pots; phase reversal switches; provision for 48-volt phantom power
- **Price**: $1,580

**SONUS**

Sonic Research, Inc.
27 Sugar Hollow Rd.
Danbury, Conn. 06813

**Blue Standard Stylus**
- **Description**: Patheflex
- **Price**: $68

**Red Standard Stylus**
- **Description**: Elliptical
- **Price**: $45

**Green Standard Stylus**
- **Description**: Conical
- **Price**: $26.50

**Silver P Standard Stylus**
- **Price**: $39.50

**Silver E Standard Stylus**
- **Price**: $30

**SOUND GUARD® Ball Corp.**
345 South High St.
Muncie, Ind. 47302

**Total Record-Care System**
- **Description**: Contains Sound Guard® preservative and Sound Guard® record cleaner, along with pump sprayers, pads, and sponges necessary for application
- **Price**: $16.99

**Record-Cleaner Kit**
- **Description**: Contains Sound Guard® record-cleaner fluid (2 oz. bottle), pump sprayer, velvet cleaning pad, sponge, and foam grooming pad; removes particulate contaminants such as dust and lint as well as adherent film type contaminants such as fingerprints; cleaner retards static buildup
- **Price**: $9.99

**Record-Preservation Kit**
- **Description**: Contains 2 oz. bottle of Sound Guard® preservative, a dry lubricant which reduces record wear without interfering with sound fidelity, along with a velvet buffer pad and non-aerosol pump sprayer; one application recommended per 25 plays; one 2 oz. bottle protects about 25 LPs
- **Price**: $9.99

**Stylus Care Kit**
- **Description**: Contains all tools necessary for stylus maintenance; includes 1 oz. bottle of stylus cleaner, soft brush, bulb air blower for removal of particulates from cartridge shell, and 3x and 10x magnifier for stylus inspection
- **Price**: $9.99

**Record-Care Pad**
- **Description**: Non-abrasive, lint-free pad which provides an ideal working surface on which to preserve and clean records; allows user to work on one side of a record while protecting the other side from harmful abuse; pad easily cleaned with soap and water
- **Price**: $7.99

**Record Buffer**
- **Description**: High-density velvet pile brush can be used for dry cleaning (preening) or with Sound Guard® Record Cleaner
- **Price**: $3.99

**Static Detector**
- **Description**: A device which alerts the user to
<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>TSB -3 Switching Module</td>
<td>$49.95</td>
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<tr>
<td>ACS-1 Electronic Crossover</td>
<td>$21.99</td>
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<tr>
<td>HD-01 Head Demagnetizer</td>
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<td>E-1 Universal Head Magnetizer</td>
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<td>X-Static</td>
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<td>Superex Stylus Cleaner</td>
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<td>Anti-Static Fluid</td>
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<td>Stylus Cleaner</td>
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<td>STRELOFF</td>
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<td>Strellof Systems Design</td>
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<td>SUPEREX</td>
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<tr>
<td>VTS-4 Video Tape Switcher</td>
<td>$59.95</td>
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<tr>
<td>TEAC</td>
<td>$79.95</td>
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<td>High Fidelity's Buying Guide to Stereo Components</td>
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</tbody>
</table>
YOU CAN'T TAKE ANY MACHINE AT FACE VALUE.

Every tape recorder is a machine by definition. Pretty faces, knobs and buttons are incidental to the recorder's fundamental responsibility. To move tape. And that is where a TEAC shines.

Twenty-five years of specialization has taught us that balance is the critical factor in determining how accurately and for how long a tape recorder will move tape.

Balance means no part stands alone. It also means delicate physical relationships. Good drive motors produce tremendous energies, magnified in fast modes. The slightest imbalance will cause vibration and audible deterioration.

Our hysteresis torque motors, one on each reel, maintain the delicate balance between start-up, back torque and running torque to prevent tape stretch and breaking. Precise tape-to-head contact is maintained to prevent high frequency loss. That's why a TEAC sounds better initially and maintains its sonic integrity after years of use.

The most important part of any drive system is the capstan assembly, where balance, again, is crucial. For accurate tape speed, the size and roundness of the capstan shaft are of utmost importance. So we use automated lathes to form each shaft. Then micro-grind each one to a tolerance of 0.2 micron (0.000008 inch).

Our hysteresis synchronous capstan motor is specifically designed for speed accuracy. Deviations (wow & flutter) are kept to the absolute minimum. Our massive flywheel is dynamically-balanced and coupled to the drive mechanism with belts that are tested under the most severe temperature, humidity and atmospheric conditions to assure dimensional stability for years to come.

For fast action and positive feel, we use highly responsive micro-switch transport controls. They activate solenoids almost twice as powerful as those in other machines. You can even hear the distinctive sound of a TEAC mechanism in action.

Our erase, record and playback heads are secured to a steel mounting plate— itself a product of over 20 years of design refinement—then aligned in the three critical planes.

Finally, we mount everything to a ¼-inch high density duralumin base plate. Physical relationships must remain constant. Especially in the tape world of micro-tolerances.

To us, it's a matter of craftsmanship. To you, a matter of decision. That's why we invite you to look beyond mere face value. Peel away the cosmetics and you'll find the real measure of any tape recorder. Especially ours.

For more information, see your TEAC Audio Specialist dealer or write us at Dept. HF-10.

TEAC.
Feedback Causes:

Feedback Cure:

DISCWASHER®
DiscFoot
Hi-Technology
Turntable Isolation System

- Works in combination with existing feet for dramatic reduction of feedback.
- Isolates better than original or "replacement" feet.

Home environments can "upset" a turntable by feeding back both speaker and footfall vibrations. Acoustic isolation of a turntable involves the complex variables of turntable weight, room/floor conditions and audio system placement. The Discwasher DiscFoot has been specifically designed to successfully isolate most turntables in the home environment.

The "Material" Solution
The major components of the Discwasher DiscFoot System are new, "totally engineered" chemical complexes that behave radically different than other plastic, rubber or spring systems. These proprietary compounds are durable and precise in behavior, although difficult and expensive to synthesize. Laboratory and real-world tests justify the use of these unusual materials in the DiscFoot System.

The Telling Test
The oscilloscope photo shows the output of two identical audio systems on the same shelf with their styli contacting the platters. The shelf is being struck by a rubber mallet. The top trace shows a turntable with absorptive "replacement" feet. The lower trace shows a DiscFoot System operating in conjunction with the existing turntable feet. Note the dramatic (tenfold) improvement in shock and feedback isolation.

The DiscFoot System contains four isolation feet, four platform caps, four furniture-protecting sheets and four special damping pads (to adapt DiscFoot units to certain turntables.) Additional single DiscFoot units are available for turntables weighing over 22 lbs. The system costs $22.

Discwasher DiscFoot can be found at audio dealers interested in preserving your music.

discwasher, inc.
1407 N. Providence Rd.
Columbia, Missouri 65201

CIRCLE 2 ON READER-SERVICE CARD