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TACS-2C STEREO AUDIO CONSOLE
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## FEATURES:

- Modern Formica Cabinet Design
- Completely Solid State Construction
- Maximum Accessibility
- Twenty-eight Inputs Available
- Nine Mixers: Three Mono: Six Stereo
- Vertical Step Attenuators for Easy Sight Control
- Incorporates Interchangeable High Level Amplifiers
- All Amplifiers Protected for Greater Reliability



## GENERAL

The TACS-2C audio console is designed to provide audio amplification, switching and monitoring facilities necessary to radio stations broadcasting stereo programming. True broadcast audio is reproduced by distortion-free amplifiers controlled by long life vertical step attenuators. These attenuators are easy to operate and provide better control because the position of the fingertip knobs is instantly visible from any distance. The vertical step attenuator also provides greater reliability than rotary types since with linear movement linear tension is provided between the contacts and thus longer life and greater reliability is achieved. Each attenuator has a cue position.

## DESCRIPTION

The TACS-2C is housed in an attractive walnut finish formica covered steel cabinet with a brushed aluminum front panel. The top cover is removable or can swing back, and the front panel is hinged to the base so that it may be swung forward for service. All components are on the front panel and base. Twenty-eight inputs are provided including nine microphones into three preamplifiers controlled by three vertical attenuators. A switch is located between the first two mixers which enables the operator to choose between independently controlling a dual microphone setup or riding level together on two microphones with one mixer. Six high level inputs and twelve remote or auxiliary lines.

## PREAMPLIFIERS

Three preamplifiers are provided in the TACS-2C. Each of the microphone preamplifiers is constructed in an aluminum plug-in housing. The necessary input transformer is contained therein.

The preamplifier uses three silicon transistors as the active devices. These transistors are very low noise units designed specifically for this application. It is fully temperature compensated and can be operated within the specifications from approximately -10 to $+50^{\circ} \mathrm{C}$.

The input transformer of this preamplifier drives a two stage "gain-stage-pair". Following the "gain-stage-pair" is an output amplifier consisting of an emitter follower which is also a very low noise device. Two AC feedback loops stabilize the amplifier resulting in very low distortion, low noise and extremely flat response.

## PREAMP SPECIFICATIONS

Input impedance ... 50 to 600 ohms source-terminated Output impedance $\qquad$ 600 ohms
Gain $\qquad$ 60 db
Noise ...................................... -130 dbm (weighted) Input N.F ............................. 1.2-1.8 db ( 600 ohms) Frequency Response ........ $\pm 1.0 \mathrm{db}, 30 \mathrm{~Hz}$ to 20 KHz Power Supply ............................... 25 VDC regulated Current Drain .................................. 21 milliamperes Distortion ........................................ Less than 0.25\% Power Output at 1\% Harmonic Distortion
5.5 milliwatts

## HIGH LEVEL AMPLIFIERS

Five high level amplifiers are incorporated in the TACS-2C for use as cue, program and monitor amplifiers. The amplifier boards are identical and interchangeable. If at any time a program amplifier fails, it is extremely simple to merely interchange either the cue or monitor amplifier for this service.

This amplifier uses eight silicon transistors and one silicon diode as the active devices. It is fully temperature stabilized and can be expected to operate within specifications from -20 to $+55^{\circ} \mathrm{C}$. Some crossover distortion will be evident below approximately +10 $C$ at power levels above 5 watts.

This amplifier consists of two basic circuits-the first being a preamplifier section and the second being the power amplifier section.

The preamplifier consists of a two transistor "gain-stage-pair" driving an emitter follower output amplifier. Two AC feedback loops and two DC feedback loops stabilize the gain and frequency-response characteristics. Low noise transistors are used in this application.

The output from the amplifier section is fed via a gain control to the power amplifier section. The input stages of the power amplifier are also low noise transistors connected as a "gain-stage-pair". This circuit current drives the base of the driver transistor.

The Collector load of the driver transistor is split between the bases of the two output transistors. These output transistors are operated complimentarysymmetry. Approximately 45 db of feedback in three loops is used to stabilize this amplifier for low fiftortion and excellent frequency response.

## HIGH LEVEL AMPLIFIER SPECIFICATIONS

Output impedance .................. Less than 15 milohms
Gain (gain cont. max.) ...................... 70 db (voltage)
Noise .......................................................... -130 db
Frequency Response ...... $\pm 0.25 \mathrm{db}, 20 \mathrm{~Hz}$ to 35 KHz (all power levels)
Power Supply ............................... 25 VDC regulated
Quiescent Current Drain .................. 85 milliamperes
Distortion ....... Less than 0.5\% (program application) Less than $0.5 \%$ (monitoring application)
Power output at $1 \%$ Harmonic Distortion $\qquad$ (RMS) 5 watts (8 ohms load)

## POWER SUPPLY

The power supply for the TACS-2C is an integral part of the unit. Two regulated supplies provide 25 volts for all amplifiers as well as the muting and speaker relays.

## ELECTRICAL CHARACTERISTICS

$$
\text { Power .................................... 105-125 volts, } 50 / 60 \mathrm{~Hz}
$$

Amplifiers
(3) Preamplifiers
(2) Line Amplifier
(2) Monitor Amplifier
(1) Cue Amplifier
(2) Power Supplies

Inputs ............... (9) microphones, 50/200/500 ohms balanced or unbalanced (5) high level stereo for tape, turntable or utility, unbalanced (12) remote lines, 50/125/200/500 ohms, balanced or unbalanced
Outputs (2) program lines- 600 ohms +8 dbm
(2) speakers-8 ohms

VU Meter. Two standard VU meters with type B scale
Channels.. Two independent stereo program channels Frequency Response

Program: $\pm 1 \mathrm{db}, 30$ to $20,000 \mathrm{~Hz}$
Monitor: $\pm 1 \mathrm{db}, 30$ to $20,000 \mathrm{~Hz}$
Distortion Program Lines: $0.5 \%$ or less, $30-20,000 \mathrm{~Hz}$
at +8 dbm
Monitor: $0.5 \%$ or less, $30-15,000 \mathrm{~Hz}$ at 5 watts
Signal to Noise Ratio ........................ - 120 db overall
Minimum Input Level ...................................... 70 db
Maximum Output Level ............................. +16 dbm
Zero VU ..................................................... +8 dbm

## MECHANICAL SPECIFICATIONS

| Width | 32 inches |
| :---: | :---: |
| Height | 11 inches |
| Depth | 19 inches |
| Weight | 75 lbs. |
| Finish | t Formica |



## AUDIO CONSOLE



## FEATURES:

- Modern Formica Cabinet Design
- Completely Solid State Construction
- Twenty-two Inputs Available
- Eight High Level Vertical Step Attenuators
- All Amplifiers Protected
- Incorporates Identical Interchangeable High Level Amplifiers


## GENERAL:

The TAC-1C audio console has been especially engineered to offer the ultimate in switching, monitoring and amplification required by radio and television stations. It presents many features found only in custom built equipment and greatly enhances smoothness of operation in the broadcast or sound studio. The use of high quality vertical step attenuators provides eight mixers in the space normally required for six rotary type mixers. The vertical attenuator provides greater reliability than rotary types since with linear movement, linear tension is provided between the contacts and thus longer life and greater reliability is achieved. The vertical step attenuator also provides better visual control since there is no question as to what position the fader is in, and such can be viewed from at least twenty feet.

## DESCRIPTION:

The TAC-1C is housed in an attractive walnut finish formica covered steel cabinet with a brushed aluminum front panel. The top cover is removable or can swing back, and the front panel is hinged to the base so that it may be swung forward for service. All components are on the front panel and base.

Twenty-two inputs are provided, including six microphones into two preamplifiers controlled by two vertical attenuators. Six high level mixers control two turntable inputs, three tape or other high level inputs, and twelve remote or auxiliary lines. Space is available for one optional additional preamplifier for low level operation.

## PREAMPLIFIERS:

Two preamplifiers are normally provided in the TAC1C with space for an additional preamplifier. Each of the microphone preamplifiers is constructed in an aluminum plug-in housing. The necessary input transformer is contained therein.

The preamplifier uses three silicon transistors as the active devices. These transistors are very low noise units designed specifically for this application. It is fully temperature compensated and can be operated within the specifications from approximately -10 to $+50^{\circ} \mathrm{C}$.

The input transformer of this preamplifier drives a two stage "gain-stage-pair". Following the "gain-stage-pair" is an output amplifier consisting of an emitter follower which is also a very low noise device. Two AC feedback loops and two DC feedback loops stabilize the amplifier resulting in very low distortion, low noise and extremely flat frequency response.

## SPECIFICATIONS:

Input impedance ..... 50 to 600 ohms source-terminated Output impedance ........................................ 620 ohms
$\qquad$
Noise ........................................... -130 dbm (weighted)

Input N.F .............................. $1.2-1.8 \mathrm{db}$ ( 600 ohms)
Frequency Response ........... $\pm 1.0 \mathrm{db}, 50 \mathrm{~Hz}$ to 20 KHz
Power Supply $\qquad$ 25 VDC regulated Current Drain ..................................... 21 milliamperes Distortion ......................................... Less than 0.25\% Power output at 1\% Harmonic Distortion
5.5 milliwatts

## HIGH LEVEL AMPLIFIERS:

Three high level amplifiers are incorporated in the TAC-1C for use as cue, program and monitor amplifiers. The amplifier boards are identical and interchangeable. If at any time a program amplifier fails, it is extremely simple to merely interchange either the cue or monitor amplifier for this service.

This amplifier uses eight silicon transistors and one silicon diode as the active devices. It is fully temperature stabilized and can be expected to operate within specifications from -20 to $+55^{\circ} \mathrm{C}$. Some crossover distortion will be evident below approximately +10 C at power levels above 5 watts.

This amplifier consists of two basic circuits-the first being a preamplifier section and the second being the power amplifier section.

The preamplifier consists of a two transistor "gain-stagepair" driving an emitter follower output amplifier. Two AC feedback loops and two DC feedback loops stabilize the gain and frequency-response characteristics. Low noise transistors are used in this application.

The output from the preamplifier section is fed via a gain control to the power amplifier section. The input stages of the power amplifier are also low noise transistors connected as a "gain-stage-pair". This circuit current drives the base of the driver transistor.

The Collector load of the driver transistor is split between the bases of the two output transistors. These output transistors are operated complimentary-symmetry. Approximately 45 db of feedback in three loops is used to stabilize this amplifier assuring low distortion and excellent frequency response.

## SPECIFICATIONS:

## Input impedance

$\qquad$ 21 kilohms Output impedance ..................... Less than 15 milohms Gain (gain cont. max.) 70 db (voltage) Noise $-130 \mathrm{dbm}$ Input N.F .............................. $\quad 1.2-1.8 \mathrm{db}$ ( 600 ohms) Frequency Response ........ $\pm 0.25 \mathrm{db}, 20 \mathrm{~Hz}$ to 35 KHz (all power levels)
Power Supply 25 VDC regulated Quiescent Current Drain 85 milliamperes Distortion ......... Less than $0.1 \%$ (program application) Less than $0.5 \%$ (monitoring application)
Power output at 1\% Harmonic Distortion $\qquad$ 8.4 watts ( 8 ohms load) 10.5 watts ( 4 ohms load)

## POWER SUPPLY:

The power supply for the TAC-1C is an integral part of the unit. Two regulated supplies provide 25 volts for all amplifiers as well as the muting and speaker relays.

## ELECTRICAL CHARACTERISTICS:

Power ................................... 105-125 volts, $50 / 60 \mathrm{~Hz}$
Amplifiers
(2) Preamplifiers
(1) Line Amplifier
(1) Monitor Amplifier
(1) Cue Amplifier
(2) Power Supplies

Inputs $\qquad$ (6) michrophones, $50 / 200 / 500$ ohms balanced or unbalanced (5) high level for tape, turntable or utility, unbalanced (12) remote lines, 50/150/250/600 ohms, balanced or unbalanced
Outputs $\qquad$ (2) program lines - 600 ohms balanced 0 VU equals +8 dbm out
(2) speakers -4 ohms

VU Meter ..... One standard VU meter with type B scale Channels..Two independent program \& audition channels Frequency Response ... Program: $\pm 1 \mathrm{db}, 30$ to $15,000 \mathrm{~Hz}$ Monitor: $\pm 1 \mathrm{dbm}, 30$ to $15,000 \mathrm{~Hz}$ Distortion .... Program Lines: . $5 \%$ or less, $50-15,000 \mathrm{~Hz}$ at +8 dbm Monitor: $1 \%$ or tews, $50-15,000 \mathrm{~Hz}$ at 4 watts Signal to Noise Ratio ............................ - 120 db overall Minimum Input Level .......................................... 70 db Maximum Output Level .................................. +16 dbm
$\qquad$

## MECHANICAL SPECIFICATIONS:

Width

29 inches

Height ........................................................... 11 inches
Depth ........................................................... 19 inches
Weight .............................................................. 75 lbs.
Finish
Walnut Formica


## WILKINSON EXCLUSIVE FEATURES

## INCORPORATES THE ULTIMATE FME-10 EX-

 CITER- Stable - So Drift Free It Requires No Oven.
- Fidelity - 25 Hz - $15 \mathrm{KHz} 100 \%$ Modulation Capability.
- Distortionless and Noiseless with Response 30 15000 Hz with Pre-emphasis.
- Solid State 10 Watts Output with Built-In Power Supply.
INCORPORATES AN ASSURED POWER AMPLIFIER
- Single Pentode 5CX1500A Final Amplifier. Assures Absolute Stability and Power Capability.
- Vacuum Capacitor Tuning And Loading Eliminates Sliding Contacts and Mechanical Problems to Assure Reliability and Long Life.
- Input and Output Reflectometers Assure Ease of Tuning, Maintenance and Accuracy of Adjustment.
- The Output Circuit and Exclusive Harmonic Filter Assure Freedom of Spurious Emissions and Harmonics.
INCORPORATES PROTECTED POWER SUPPLIES
- Uses Self Testing Wilkinson Silicon Rectifiers Voltage Protection 400\% Current Protection 800\%
- Modern Fiberglass Printed Circuit Control Ladder Conserves Space, Reduces Complexity and Eliminates Unnecessary Wiring.
- Solid State Time Delay and Recycling Increases Reliability and Eliminates Expensive Relay Replacement.
- Double Duty Plate Transformer and Filter Reactor Always Loaf.


## GENERAL MECHANICAL DESCRIPTION

The FM2500E broadcast transmitter is housed in a steel cabinet finished in a hard durable Black Vinyl Finish with Brushed Aluminum Trim. Only four square feet of floor space is required. All operating controls are on the front panel and access to the interior of the power amplifier is thru the door of the PA cubicle. A sliding drawer directly beneath the PA houses the low voltage power supplies and control ladder circuits. Interlock and overload indicators as well as overload reset controls are on the front panel of this slide-out drawer. All components of these circuits are completely accessible when the drawer is opened.

The exciter and where required, the stereo generator is the next vertical component beneath the control circuit drawer. There are two slide-out compartments in the exciter itself which facilitate exciter adjustments, but for service or maintenance on the exciter power supply, opening of the rear provides complete accessibility:

## FM2500E 2.5KW FM TRANSMITTER



All components can be reached from this access or from the full rear door.

The Main power supply including plate transformer, and filter circuitry are located on the base of the transmitter with the main circuit breaker on the lower front panel.

Full and complete metering is provided. To the right of the power amplifier two multimeters measure screen and control grid voltage and current. A third meter measures the incident and reflected power of the exciter output.

The upper meter panel indicates plate current, plate voltage, AC Mains voltage and output power in terms of percentage. Full metering for the IPA stage is incorporated in the 65 watt section. The output power meter can be switched to read reflected power from the antenna.

## EXCITER FME-10 and IPA

The FME-10 is a direct FM exciter capable of both monophonic and stereophonic operation. During monophonic operation two sub-carriers can be used; during stereophonic operation only one sub-carrier can be used.

The exciter is comprised of three basic sections, the power supply, a direct FM oscillator and automatic frequency control section, and the multiplierpower amplifier section. The latter two sections are
contained in separate housings to eliminate interaction between the two systems. The power supplies and control circuits are contained in the main frame of the exciter. The exciter drives the IPA, which is a Motorola 2N6166, which supplies 65 watts of drive for the final tube. This is more than adequate for this service.

## POWER AMPLIFIER

A single 5CX1500A tube capable of 3000 watts is used as the final RF amplifier. Operating in a grounded cathode configuration. It does not require neutralization because of the internal structure of the
screen grid. Capacity tuned networks are used in both input and output circuits and both circuits incorporate reflectometers for assurance of correct tuning and safe operations. The inductance in the output is fixed during factory test and variable vacuum capacitors vary tuning and loading of the final.

## POWER SUPPLY

A full wave single phase bridge silicon rectifier provides 4500 volts for the 5CX1500A plate. Separate bridge circuits provide the 500 volt screen supply and 120 volt bias supply.


SPECIFICATIONS

## PERFORMANCE SPECIFICATIONS

Type of Emission ..................................... F3 F9
Frequency Range
88 to 108 MHz
Rated Power Output ........................... 2500 watts
RF Output Impedance ( $7 / 8^{\prime \prime}$ EIA Flange) ... 50 ohms
Audio Input Impedance ........................... 600 ohms
Audio tnput Level $10 \pm 2 \mathrm{dbm}$
Amplitude vs. Frequency ........ $+1 / 4$ to $1 / 2 \mathrm{db}$ of 75
Carrier Frequency Stability ................... $\pm 1000 \mathrm{~Hz}$
Modulation Capability ............................ $\pm 150 \mathrm{KHz}$
Audio Frequency Distortion.. .. $1 / 2 \%$ Max. $50-15 \mathrm{KHz}$
FM Noise Below $\pm 75 \mathrm{kc}$............................... 65 db
AM Noise RMS ......................... 55 db below carrier
Harmonic Attenuation at least 73 db

## ELECTRICAL SPECIFICATIONS

Power Line Requirements
Voltage .... 208 or 230 volts, 50 or 60 cycles, 1 phase
Slow Line Variations ..... $\pm 5 \%$
Rapid Line Variations ..... $\pm 3 \%$
Regulation ..... 3\%
Power Consumption 5800 watts (approx.)
Power Factor (approx.) ..... 90\%
TMECHANICAL SPECIFICATIONS
Transmitter Overall Dimensions
Width ..... 28/1/4"
Height ..... 76"
Depth ..... 27"
Net Weight ..... 1200 lbs. (approx.)
Maximum Altitude ..... 7500 feet
Ambient Temperature $-30^{\circ} \mathrm{F}$ min. $+120^{\circ} \mathrm{F}$ max.
TUBE COMPLEMENT$1-5 \mathrm{CX} 2500 \mathrm{~A}$

## FEATURES

- Highest Quality, Lowest Cost
- Solid State Engineered for Stereo
- Maximum Accessibility in a Compact Package
- Fifteen Inputs; 6 Microphone, 9 Stereo
- Seven Mixers; 2 Mono, 5 Stereo
- Top Quality Attenuators each with Cue Position
- Sliding Faders for Easy Sight Control


The economic TSC-4A is a versatile, compact stereo console featuring first quality audio, first quality components and first quality engineering. True broadcast audio is reproduced by distortion-free amplifiers controlled by long life sliding step attenuators. These attenuators are easier to operate and provide better control because the position of the finger-tip knobs is instantly visible from any distance.

## Each attenuator has a cue position.

Fifteen inputs are provided. Six low level mono inputs are switchable to two preamplifiers. Four stereo high level inputs are connected to 4 faders and 5 additional inputs are switchable to an auxiliary fader. Thus the TSC-4A can easily control 9 stereo sources and 6 microphones.

Amplifiers and power supplies are produced on professional fiberglass printed circuit boards which are easily removable. The utmost in accessibility is accomplished because the face of the console incorporates 90 percent of all components and swings forward to expose all parts.

## CIRCUIT DESCRIPTION (Refer to Block Diagram)

## MICROPHONE PREAMPLIFIERS

Two microphone preamplifiers are normally provided in the TSC-4A. Each of the microphone preamplifiers is constructed in an aluminum plug-in housing. The necessary input transformer is contained therein.

The microphone preamplifier uses three silicon transistors as the active devices. These transistors are very low noise units designed specifically for this application. It is fully temperature compensated and can be operated within the specifications from approximately -10 to $+50^{\circ} \mathrm{C}$.

The input transformer of this microphone preamplifier drives a two stage "gain-stage-pair". Following the "gain-stage-pair" is an output amplifier consisting of an emitter follower which is also a very low noise device. Two AC feedback loops and two DC feedback loops stabilize the amplifier resulting in very low distortion, low noise and extremely flat frequency response.

## LINE AMPLIFIERS

The line amplifiers consist of a two transistor "gain-stage-pair" driving a class A driver which supplies the necessary signal current to feed the output stage. The output stage, consisting of two transistors, is connected in a conventional "totem pole" output configuration operating as emitter followers.

## OUTPUT TRANSFORMER

The use of an output transformer allows the driving of both high impedance and balanced or unbalanced 600 ohm lines. By restrapping the secondary of the transformer 150 ohm lines can be driven.

## POWER SUPPLY

The power supply for the TSC-4A is an integral part of the unit. This supply provides 25 volts for all amplifiers, as well as the muting and speaker relays.


## ELECTRICAL CHARACTERISTICS

15 Inputs:
Six low level mono inputs switchable to two preamplifiers.
Nine high level stereo inputs to five mixers. All inputs switchable to either/or both output channels.

## Outputs:

Two high level monitored by VU meters.
Noise with 50 db Gain:
-68 db referred to +8 VU output.
Output Capability:
+16 dbm into 600 ohm load, 30 Hz to 15 KHz .
Distortion:
Less than $1 \%$ at +8 dbm into 600 ohm load, 50 Hz to 15 KHz :

Frequency Response: $\pm 1 \mathrm{db}, 50 \mathrm{~Hz}$ to 15 KHz .

Cross Talk and Leakage: At least 60 db below +8 VU output signal at 1 KHz .

Input Impedance:
Low Level - 200 ohm balanced.
High Level - 600 ohms unbalanced.
Output Impedance:
600 ohms balanced or unbalanced. May be restrapped for 150 ohms.

## Gain:

60 db

## Power Supply:

+25 V DC
Input Power:
$105-125 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$

## MECHANICAL SPECIFICATIONS

Dimensions:
Width
22"
Height 10"
Depth $171 / 2^{\prime \prime}$
Color

# WGT MUSDADE BLYA. WOODLYM, PA. 19094 - TELEPHONE (215) 874-5236 074-5237 - CABLES WILEE 

August 31, 1973

Mr. G. Petersen
President
Astronaut Electronics 161 East Goebel Drive
Lombard, IL 60148

## Dear Sir:

Thank you very much for your inquiry about Wilkinson Electronics audio consoles. We are pleased to enclose catalog sheets on each of these units for your information. Not only are these consoles beautiful in appearance, but their performance is superior to anything on the market.

We incorporate the highest quality step-attenuators which are easily cleaned and adjusted. These slide attenuators provide maximum flexibility and operation of these audio boards since as many as four attenuators can be operated simultaneously.

The walnut formica finish of the TAC-1C and TACS-2C will add to the appearance of your control room, and the human-engineered design of the brushed aluminum control panel will make it easy for the operator and reduce fatigue.

Prices of these consoles are as follows
TAC-1C $-\$ 2,195.00$
TACS-2C $-\$ 2,995.00$
TSC-4A $-\$ 1,895.00$

Delivery of these units is from stock. Again, thank you for your inquiry.

## Very truly yours,

WILKINSON ELECTRONICS, INC.


GPW:loc
Enc.

## ELECTAONICB, INC.

WHP MUEDADE BLVA. - WOOOLYM, PA. 19094 - TELEPHONE (215) 074-5236 374-5237. CABLES WLLEC
May 4, 1973

Mr. G. Petersen, President Astronaut Electronics 161 East Goebel Drive Lombard, IL 60148<br>Dear Siri

Wilkinson Electronics is pleased to announce the type acceptance and availability of a new sinqle tube $21 / 2 \mathrm{KW}$ FM transmitter, the Wilkinson Electronics FM-2500E.

This new transmitter incorporates some very remarkable featurea. Using an all solid state exciter, followed by a 65 W solid state IPA, the transmitter uses only one 5 CX1500 pentode tube in the final. This tube is rated for 3,150 watts output--and at 2,500 watts it virtually loafs.

The final amplifier incorporates variable vacuum capacitor tuning and loading, and no sliding shorts or variable inductances are used.

Output power, as well as reflected power, is measured from the output of the power amplifier as well as the exciter so that the transmitter is extremely easy to tune.

The transmitter is small, requiring only 4 square feet of floor space, yet all components are completely accessible.

The FM-2500E is priced at only $\$ 8,950.00$ for monaural service, and stereo operation can be provided with the addition of a stereo generator.

Delivery of this transmitter is approximately 60 days from receipt of your order.

Vary truly yours,


President

