

# AMPEX

## PRODUCT DATA BULLETIN

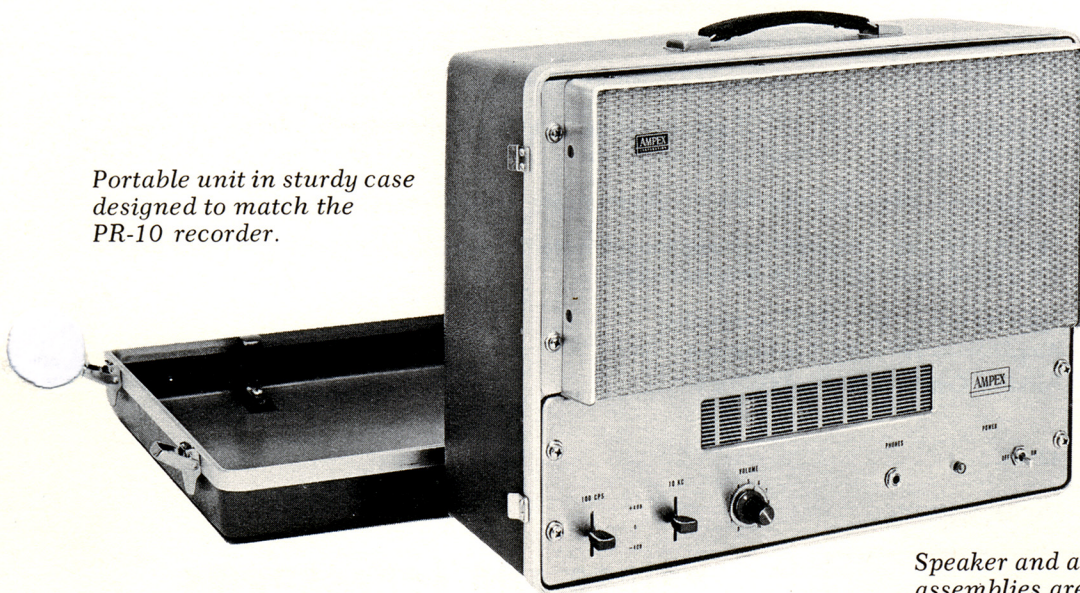
AMPEX PROFESSIONAL PRODUCTS COMPANY · AUDIO PRODUCTS DIVISION

### COMPACT AMPLIFIER-SPEAKER SYSTEM

*with power and performance for professional users*

Designed for radio, recording and TV studio playback and monitoring systems, the SA-10 gives superior performance characteristics never before achieved in a unit of its size. As a portable, the SA-10 meets all requirements for critical on-location monitoring, and for all compact sound system applications. Versatile input system permits amplifying from any sound source. Optional plug-in preamp permits use as a high quality PA system for medium size auditorium use.

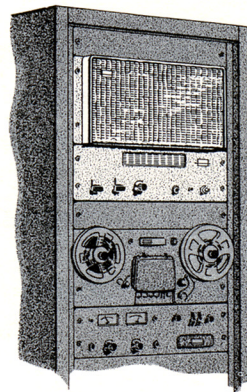
*Portable unit in sturdy case designed to match the PR-10 recorder.*



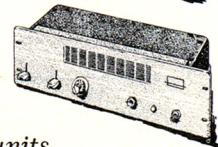
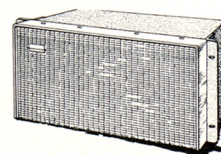
*Speaker and amplifier assemblies are complete, separate units.*

Model SA-10  
Catalog 96975-01

Preliminary Bulletin



*Rack mounts in only 14" vertical space.*



### AMPLIFIER

An advanced design 40 watt power amplifier with the new Ampex dynamic regulator circuit giving greater stability and lower distortion than conventional amplifiers, even under extreme overload conditions. This new concept of amplifier design provides:

- Uniform frequency response over full audible range
- Ability to withstand overloads with minimum effect on tube operating points
- Instantaneous recovery from both transient and sustained overloads
- Constant tube operating voltages regardless of power output demand
- Improved signal-to-noise ratio by new filtering system
- Greater reliability, cooler operation, and longer tube life because power consumption under standby conditions is only 50 watts.

### SPEAKER

The SA-10 speaker assembly has been specially designed to give the highest quality and lowest inter-modulation distortion possible for a unit of its size. The speaker is an efficient, long excursion type mounted in a very rigid, completely separate, tuned duct enclosure designed to minimize low frequency distortion usually found in small enclosures.

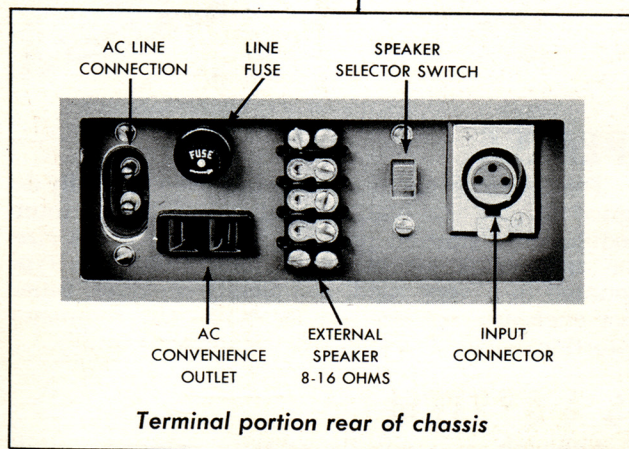
### AS A SYSTEM

Although mechanically separate, permitting units to be used or mounted independently, the amplifier and speaker *in combination* constitute a compact *system-engineered* unit with exceptional performance, clarity of sound, and freedom from distortion at *all* frequencies. An equalizer network (bypassed when the amplifier is fed to an external speaker) complements the acoustical characteristic of the speaker and its enclosure. The system, therefore, has a smooth overall acoustical response in the range of 60 to above 15,000 cycles per second.

# AMPLIFIER SPECIFICATIONS

<b>POWER OUTPUT:</b>	40 watts
<b>FREQUENCY RESPONSE:</b>	22 to 20,000 cps +0, -2 at any power level up to 40 watts
<b>SIGNAL-TO-NOISE RATIO:</b>	Amplifier noise (including hum) is 90 db below rated output.
<b>HARMONIC DISTORTION:</b>	Less than 1% at rated output.
<b>SENSITIVITY:</b>	2 volts for 40 watts.
<b>INPUT IMPEDANCE:</b>	50,000 ohm, unbalanced. Accessory plug-in low Z microphone preamplifier (Catalog No. 96440-03) and plug-in balanced 20,000 ohm bridging transformer (Catalog No. 96134-01) also available.
<b>OUTPUT IMPEDANCE:</b>	8 and 16 ohm to external speaker.
<b>EQUALIZATION:</b>	Two calibrated key switches for +4 db, 0 db, -4 db equalization at 100 and 10,000 cps.
<b>CONTROLS:</b>	Two equalizer keys, volume control with re-set indicator, power switch and pilot lamp. Internal-external speaker selector switch.
<b>CONNECTORS:</b>	Cable for AC power is supplied and an AC convenience outlet is built-in. Audio input is rugged Cannon XL. Monitor phone jack. External speaker connections are accessible on terminal strip.
<b>MONITOR PHONE OUTPUT:</b>	16 ohms, speakers are disconnected when jack is used.
<b>TUBES:</b>	2 - 7355 output stage, 1 - 12AU7 phase inverter, 1 - EF86 voltage amp, 1 - 6CY7 voltage regulator, silicon rectifiers for high voltage and bias.
<b>POWER CONSUMPTIONS:</b>	117 volts AC, 50 or 60 cycles; 50 watts at zero signal, 116 watts at rated power.
<b>PORTABLE CASE:</b>	Sturdy scuff proof Royalite* vacuum formed material. Absorbs severe shocks without fracturing. All hardware finished in brushed nickel.
<b>DIMENSIONS: (Overall)</b>	Speaker unit — 19" x 8 <sup>3</sup> / <sub>4</sub> " unmounted Amplifier — 19" x 5 <sup>1</sup> / <sub>4</sub> " unmounted Portable Case — 19 <sup>5</sup> / <sub>8</sub> " x 14 <sup>5</sup> / <sub>8</sub> " x 9"
<b>WEIGHT IN PORTABLE CASE:</b>	42 lbs.

\*TM U.S. Rubber Co.



## PRICES AND ACCESSORIES

	Catalog No.	User Net Price
SA-10 Speaker-Amplifier System, unmounted	96975-01	\$295.00
SA-10 Portable Carrying Case	96960-01	50.00
SA-10 Amplifier only	96950-01	175.00
SA-10 Speaker unit in enclosure	96980-01	120.00
Microphone plug-in preamp, low imp.	96440-03	45.00
Balanced bridging plug-in transformer	96134-01	14.50

*Prices and specifications subject to change without notice.*

**AMPEX**

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