

AMPEX

AG-500 Solid State Recorder

Some Outstanding Advantages

- all solid state
- time proven die-cast top plate
- remote control of all functions
- four position head assembly
- two speed transport (7½, 15 ips or 3¾, 7½ ips)
- full or half track mono, half or quarter track stereo
- portable case or rack mount
- system-matched accessory units

Compact, rugged and versatile, the AG-500 recorder/reproducer is a true professional for broadcast, studio or remote, educational, commercial/industrial and government applications. It is available in one or two channel configurations with full or half track, two track or quarter track head arrangements.

It features solid state electronics, a precision milled top plate, remote control operation of all functions and high quality Ampex heads.

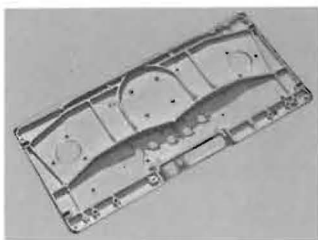
Electronics, only 3.5 inches high, contain one complete record/reproduce channel. Each will accept and mix two incoming line signals. Inputs have separate level controls. Through the use of a mic pre-amp accessory, the line inputs can be converted to accept low impedance microphones. Thus, narration over music, music, voice/voice mixing or special sound capabilities are practicable. The reproduce amplifier has its own level control. The illuminated VU-meter can be switched to read either the "record input" or "playback output." Signals are monitored with headset which plugs into front panel jack. Playback equalization is switched for tape speed by separate control. All frequently used record and bias adjustments are accessible from the front.

The transport features a precision milled, die-cast top plate which eliminates flexing problems and maintains proper tape alignment.

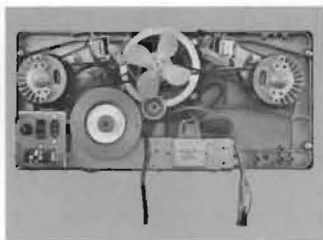
The transport is relay/solenoid operated and can be fully remote controlled. A remote control accessory unit is available. Eddy current clutches assure smooth tape handling in all modes . . . and permit use of thin base tapes. The AG-500's head cover opens fully for simplified tape threading and head degaussing. A tension arm automatically shuts off transport at end of reel.

The AG-500 is supplied with 3 heads in a four-position head assembly. One-channel recorders are available with either full or half track heads. Two-channel versions have either two track or quarter track (channels 1 & 3) heads. A manual tape lifter is included. In the two channel version, a two track erase head used with the "record/safe" selector permits half track recording of either track, sound on sound, cue track and special effects. The two channel version is also available with extra quarter track or two track playback head in the fourth position.





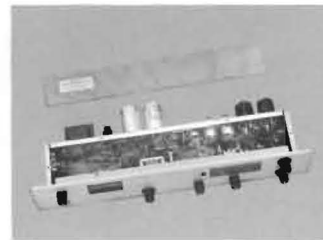
This precision milled, die-cast top plate eliminates flexing problems and provides added rigidity to maintain alignment even in the most demanding portable and mobile assignments.



The AG-500 transport provides smooth, stable tape movement. New long-life drive motor is designed for extremely long running time between lubrications. New open style motor flywheel offers exceptional motor cooling for extended operational life.



Three high quality Ampex heads are standard. All units can accommodate a fourth head (extra play or sync head). Erase heads have new high efficiency, ferrite core construction. AG-500 heads are optimized to give highest performance with solid state electronics.



Individual electronics chassis with solid state circuits are only 3 1/2 inches high. One chassis per channel permits high flexibility and offers easy expansion to multi-channel requirements with a simple cable connector and a head change.



AG-500 SYSTEM — A COMPLETE "MINI-STUDIO"

The AG-500 professional recorder/reproducer system offers field portable flexibility with studio standard quality. Systems are assembled using the AG-500 recorder/reproducer; AA-620 amplifier speaker and the AM-10 stereo/mono mixer, with microphones and accessories as needed.

Accessories

AM-10 STEREO/MONO MIXER

Six-position (4 microphone, 2 line) two channel mixer. Solid state plug-in electronics. Signal/noise — 122 dBm ± 1 dB 30 Hz to 20 kHz response. 600 ohm output impedance. Better than 40 dB crosstalk rejection from 20 Hz to 20 kHz. Rack mount or with accessory meter panel in portable case.

AA-620 SPEAKER/AMPLIFIER

Solid state 15 watt amplifier. Separate woofer and tweeter in tuned enclosure. Essentially flat acoustically, range better than 65 Hz to 10 kHz. Separate bass and treble step equalization. Portable or rack mount.

See price sheet for other accessories.

SPECIFICATIONS

Specifications quoted are those measured by professional standard methods. They are the guaranteed minimum specifications that a user can expect in long term operation.

Speeds:	7 1/2 and 15 ips, or 3 3/4 and 7 1/2 ips.	Metric conversion:	3 3/4 ips 9.52 cm/sec 7 1/2 ips 19.05 cm/sec 15 ips 38.10 cm/sec
Overall Frequency Response:	30-1800Hz ± 2 dB at 15 ips 30-15,000 Hz + 2 db, - 4 db at 7 1/2 ips 40- 8,000 Hz + 2 dB, - 4 dB at 3 3/4 ips		
Signal to Noise Ratio:	(Peak record level to unweighted noise: Includes bias, erase and playback amplifier noise)		55 dB at 15 and 7 1/2 ips (half track or two track) 60 dB at 15 and 7 1/2 ips (full track 60 cps) 57 dB at 15 and 7 1/2 ips (full track 50 cps) 55 dB at 3 3/4 ips (full track) 50 dB at 3 3/4 ips (half track and quarter track)
Flutter and Wow:	Less than 0.15% rms at 15 ips 0.18% rms at 7 1/2 ips 0.25% rms at 3 3/4 ips		
Timing Accuracy:	±0.25% at 15 and 7 1/2 ips, ±0.40% at 3 3/4 ips		
Output:	+ 4 dBm into 600 ohm balanced load. Cannon XL connectors. Single headphone jacks provided.		
Inputs:	Two inputs per channel, 100,000 ohms unbalanced. Will accept input signal levels as low as - 18 dBm for normal operating level.		
Power Required:	117 Volts AC — 60 cycles, 1.50 amp, 230 volts AC — 50 cycles, .75 amp 3 wire grounded power cable supplied		
Rack Space:	Transport: 8 3/4 " x 19" (22.2 cm x 48.3 cm) Electronics: 3 1/2 " x 19" (8.9 cm x 48.3 cm) Minimum space required: 6" behind panels (15.2 cm)		
Portable Units:	Mounted in rugged Samsonite cases. Both one and two-channel cases have sliding rear panel for access to connectors and adjustments on rear of machine. Cases are designed so machines can be operated vertically or horizontally with cables connected.		
Weight and Dimensions:	1 channel portable = 42 lbs.: 20" W x 9 1/4" D x 14 1/8" H (includes feet and handle) 2 channel portable = 52 lbs.: 20" W x 9 1/4" D x 18 1/8" H (includes feet and handle)		

Ampex Series 600 professional tape or Series 406 mastering tape recommended for optimum performance under most conditions.

AMPEX

Ampex Corporation, Audio-Video Systems Division
401 Broadway
Redwood City, California 94063

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