Some Outstanding Advantages

- All solid state
- Time proven die-cast top plate
- Remote control of all functions
- Four position head assembly
- Two speed transport (7 1/2, 15 ips or 3 3/4, 7 1/4 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 adjustment 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 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 3½ 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.

**SPECIFICATIONS**

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Frequency Response</td>
<td>30-180000 Hz ± 2 dB at 15 ips</td>
</tr>
<tr>
<td>Signal to Noise Ratio</td>
<td>55 dB at 15 and 7½ ips (half track or two track)</td>
</tr>
<tr>
<td>Flutter and Wow</td>
<td>Less than 0.15% rms at 15 ips</td>
</tr>
<tr>
<td>Timing Accuracy</td>
<td>± 0.25% at 15 and 7½ ips, ± 0.40% at 30 ips</td>
</tr>
<tr>
<td>Output</td>
<td>4 dBm into 600 ohm balanced load, Cannon XL connectors. Single headphone jack provided.</td>
</tr>
<tr>
<td>Power Required</td>
<td>117 Volts AC - 60 cycles, 1.50 amp, 230 volts AC - 50 cycles, .75 amp, 3 wire grounded power cable supplied</td>
</tr>
<tr>
<td>Rack Space</td>
<td>Transport: 9½ x 19½ (24.3 x 48.3 cm) Electronic: 3½ x 19½ (6.9 x 48.3 cm) Minimum space required: 8½ behind points (15.2 cm)</td>
</tr>
<tr>
<td>Weight and Dimensions</td>
<td>1 channel portable: 42 lbs, 30 W x 9¼ D x 14½ H (includes feet and handbag) 2 channel portable: 32 lbs, 20 W x 9¼ D x 14½ H (includes feet and handbag)</td>
</tr>
</tbody>
</table>

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

**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.

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LITHO IN U.S.A. — A-620-6-72