

AMPEX
AG-500
 PORTABLE OR RACK MOUNT

These recorders assure studio quality and performance for all field and studio applications . . . for broadcasters . . . recording studios . . . educators . . . industry . . . and advanced recordists.

- *New Solid State Electronics*
- *New Precision Milled Die-Cast Transport*
- *New Highest Quality Heads*
- *Rugged Samsonite Case or Rack Mount*
- *Complete Remote Control of All Functions*
- *Four Position Head Assembly*
- *Two Speeds 7 1/2-15 or 3 3/4-7 1/2*

Take Studio Quality With You

AG-500-1

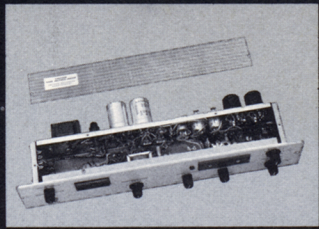
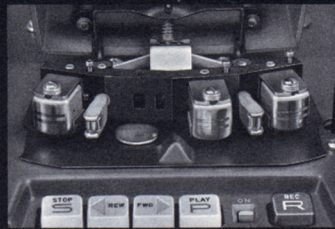
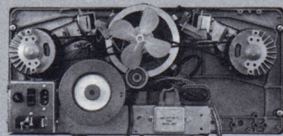
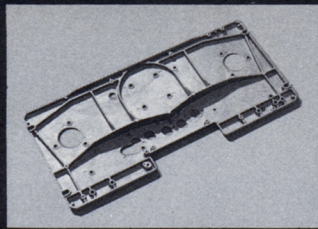
A new versatile one-channel recorder with full or half-track heads. This single channel unit has input controls that can mix two incoming line signals. Use of mike pre-amp accessory converts line inputs to accept low impedance microphones. Narration over music, music/voice mixing or special sound on sound capabilities are possible. Recorder will feed 600 ohm remote broadcast phone line.

AG-500-2

The two-channel version provides complete stereo record and reproduce. A 2-track erase head used with the "record/safe" selector permits half-track recording of EITHER track, sound on sound, cue track and special effects. Like the monophonic version, each electronics channel of the AG-500-2 has two inputs: thus offering a built-in four-position mixer.

AG-500-4

Offers all functions of AG-500-2 in quarter track stereo/mono version. Recorder has three one-fourth track stereo heads; erase, record, play . . . (tracks 1 and 3 of 4 tracks). Optional versions are available from factory with extra head and head transfer switch installed.



This precision milled top-plate die-casting eliminates flexing problems, provides added rigidity to maintain alignment even in rough portable and mobile assignments. Motor resonance is dampened, thus providing low flutter characteristics.

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. The transport is relay/solenoid operated and can be fully remote controlled. Eddy current clutches assure smooth tape handling in all modes... even permits use of thin base tapes.

All units can accommodate up to 4-head stack for added flexibility such as extra play or sync head. Erase heads have new high efficiency, ferrite core construction. AG-500 series 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 2-channel requirements via a simple "y" cable connector and head change (either half track or quarter track stereo). Output selector switch to the left of the meter switches both the meter and reproduce electronics to "recorder input" or "playback output" for A-B comparisons. All frequently used record and bias adjustments are accessible from the front, eliminating need to remove unit from case or rack.

AG-500 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. (AG 500-4: 3 3/4-7 1/2 only)

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:

30-18,000 Hz ± 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 (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, individual gain controls on each. No. 1 & 2: Balanced or unbalanced bridging (bridging transformers supplied) with provisions for plug-in 600 ohm transformers or low impedance plug-in microphone pre-amps.

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)

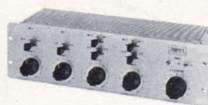
PORTABLE UNITS: Mounted in rugged Samsonite cases. Both one and two-channel cases have sliding rear panel for access to connectors and adjustments on rear of machine. Cases are designed so machines can be operated vertically or horizontally with cables connected.

WEIGHT:

1 channel portable = 42 lbs.
2 channel portable = 52 lbs.

U.L. APPROVED:

ACCESSORIES:



MX-10:

Compact, four-position, two-channel mixer extends the flexibility of the AG-500. Four individual gain controls with A & B channels plus individual keys above positions 3 & 4 for mike or line selection, provide maximum versatility. Up to four MX-10s may be strapped together.

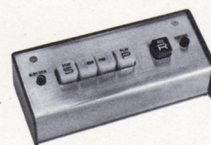


622:

Rugged, portable 10 watt speaker/amplifier designed for studio quality monitoring. 8" full-range speaker. External speaker jack cuts out internal speaker and reciprocal network. 100,000 ohm input. Essentially flat between 65 to 10,000 Hz. Weight 25 lbs.

REMOTE CONTROL:

Available in table top mount or flush panel style. Allows the recorder to be controlled from any desired location. Duplicates all functions of record, play, fast forward and fast rewind.



PLUG-IN INPUT UNITS:

Interchangeable units match various inputs: 600 ohm line matching transformer; balanced bridging transformer (two normally supplied with each channel); 60 db solid state microphone pre-amplifier for low impedance microphones.



AMPEX

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