

AMPEX

AG-600B Professional Portable Audio Recorder

Some Outstanding Advantages

- Rugged, time-proven construction
- Two switch-selectable speeds
- Automatically switched equalization
- Solid-state electronics
- Compact portable and rack-mount versions
- Stereo and mono versions
- Three-digit footage counter
- Accessory speaker/amplifier and mixer

As the current production model in a distinguished series, the Ampex AG-600B recorder/reproducer is a good thing made just a little better.

The predecessors of the AG-600B were the extremely popular 600 Series—a rugged, time-proved workhorse—and its equally popular successor, the original solid-state AG-600. Some 40,000 of these Ampex portables were delivered over the years. The AG-600B has kept their design and appearance with important refinements: One switch selects speeds and equalization.

The AG-600B changes speeds— $3\frac{3}{4}$ or $7\frac{1}{2}$ in/s—and equalization at the turn of an indexed switch. A two-speed motor has replaced the mechanical speed-change linkages of the 600 Series and the original

AG-600. Equalization is automatic when recording speed is changed.

AG-600B: The professional's portable

Like the 600 and the original AG-600, the AG-600B has become the most highly regarded recorder/reproducer of its kind. It offers outstanding reliability; a convenient, compact design; and a rugged die-cast frame that absorbs the bumps of handling in the field.

The AG-600B provides the reliability of costly studio recorders in a compact, lightweight package. Accordingly, it serves ideally in the broadcast, industrial, educational, religious, medical, and government fields—any application, in fact, where *professional* results are needed but budgets are limited.



Single-channel (full or half-track mono) and two-channel (half or quarter-track stereo) versions of the AG-600B are available. Both feature all-solid-state electronics. Each recording channel has allowance for one mike input and one line input, so that mixing capability is built into the machine. With an accessory plug-in preamplifier, the line input can be converted to a second mike input. For monitoring, an isolated output jack accepts both low and high-impedance headsets.

All of the AG-600B's setup controls are located on the front panel. A three-digit tape counter simplifies indexing.



Accessories

THE AA-620 SPEAKER/AMPLIFIER accessory includes a solid-state 15-watt amplifier and two speakers in a tuned enclosure. It offers essentially flat acoustic response; bass and treble equalization are adjustable ± 6 dB. Available in portable case.

THE AM-10 STEREO/MONO MIXER accessory is a six-position, two-channel mixer, available in portable or rack-mount versions. Signal-to-noise ratio: -122 dBm
Response: ± 1 dB 30 Hz to 20 kHz
Output impedance: 600 ohms
Crosstalk rejection: 40 dB from 20 Hz to 20 kHz



The complete AG-600B system: AG-600B recorder/reproducer, AA-620 amplifier/speaker, and AM-10 mixer. They provide studio quality in a highly versatile field system.

SPECIFICATIONS

Frequency Response:	7½ in/s ± 2 dB from 60 Hz to 10 kHz $+2-4$ dB from 40 Hz to 15 kHz	3¾ in/s ± 2 dB from 50 Hz to 7 kHz $+2-4$ dB from 40 Hz to 8 kHz
Signal to Noise:	7½ in/s Full track 57 dB Half track 55 dB	3¾ in/s Full track 52 dB Half track 50 dB
Crosstalk Rejection:	Better than 40 dB mid-frequency	
Flutter and Wow:	(Measured by ASA Standards) 7½ in/s less than 0.17% 3¾ in/s less than 0.25%	
Timing Accuracy:	7½ in/s $\pm 0.2\%$ (± 3.6 seconds in a 30 minute recording) 3¾ in/s $\pm 0.4\%$ (± 7.2 seconds in a 30 minute recording)	
Fast Forward or Rewind Time:	7½ in/s mode: 1200 ft. reel: 90 sec. 3¾ in/s mode: 1200 ft. reel: 180 sec.	
Speeds:	Dual speed 3¾ and 7½ in/s	
Reel Size:	5" and 7". (Ampex 600 Series Tape recommended for best results)	
Inputs:	Two inputs with individual gain control on each. 1. Low impedance mike input, 150 microvolts required for program record level. 30 to 250 ohm nominal impedance. 2. Line input (100 k unbalanced), -10 dBm required for program record level. (May be used as microphone input with accessory plug-in microphone preamplifier.)	
Outputs:	Two outputs for each channel. 1. $+4$ dBm into 600 ohm. Balanced or unbalanced load. 2. Headphone monitor jack (on front panel) monitor selector permits monitoring either input source or tape playback, with recording.	
Equalization:	For 117 volt, 60 Hz models: 3¾ in/s, 120 microsecond 7½ in/s, NAB	For 115/230 volt, 50 Hz models: 3¾ in/s, 120 or 200 microsecond 7½ in/s, NAB or CCIR
Power Requirements:	For 117 volt operation 0.5 ampere For 230 volt operation 0.3 ampere	
Size and Weight:	(in portable case) Single channel: 28 lbs.—14¾" h x 13" w x 8¾" d Dual channel: 42 lbs.—19½" h x 13" w x 8¾" d	

AMPEX

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Your investment in Ampex equipment yields maximum returns when it is operated and maintained by Ampex-trained people. Seminar and videotape training courses available worldwide. For brochure, write Ampex Technical Institute, M.S. 2-11A, 2685 Bay Road, Redwood City, Ca. 94063, U.S.A.

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