

AMPEX

SOLID-STATE

AL-500

LOGGING RECORDER

RELIABLE, 8.5 HOUR RECORDER FOR COMMUNICATIONS AND EVENT LOGGING



- Police and fire department calls
- Ambulance dispatch and report
- Highway and street information
- Military communications
- Phone call logging

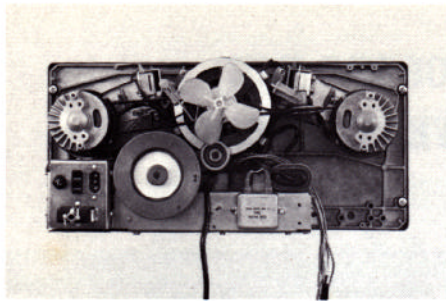
- Airline communication and traffic control
- Railroad traffic control
- Broadcast log
- Security applications
- Courtroom recording

The Ampex AL-500 communications logging recorder provides "actual occurrence documentation" for analysis and personal protection, supplementing and supporting the written log. When the Ampex AL-500 is connected to a communication link, the resultant recorded tape confirms oral orders, information and procedures — eliminates pos-

sible embarrassing and costly errors.

The slow-speed Ampex AL-500 is also ideal for recording extended conferences, lengthy meetings, speeches, discussions, briefings... any activity where long recording time is needed.

FOR BUSINESS, MILITARY, GOVERNMENT, OR TRAINING, THE AL-500 CAN IMPROVE EFFICIENCY, ACCURACY AND RELIABILITY OF THE COMMUNICATIONS SYSTEM.

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AL-500 transport provides smooth, stable tape movement. New long-life drive motor is designed for extremely long running time between lubrications. New vented motor-flywheel offers exceptional cooling for extended operational life. The transport is relay/solenoid operated — can be fully remote controlled. Eddy current clutches assure smooth tape handling in all modes — permits use of extended-play tapes.



AL-500-2; a two channel, four track recorder/reproducer operating at selectable speeds of $1\frac{1}{2}$ ips and $1\frac{7}{8}$ ips. Tracks 1 and 3 are recorded on the first pass; tracks 2 and 4 on the second by transposing the reels. The AL-500 will accept two simultaneous incoming signals, or can be switched to record one track at a time, giving a total of 34 hours — 8 minutes on a single 7" reel of $\frac{1}{2}$ mil tape.



AL-500-4; a four channel, four track recorder/reproducer with speeds of $1\frac{1}{2}$ ips and $1\frac{7}{8}$ ips. The AL-500 records four tracks simultaneously, or by switching, can record 1 or more tracks from single or multiple source. Maximum continuous recording time is 8 hours and 32 minutes in one direction using $\frac{1}{2}$ mil tape on 7" reel.

PRODUCT FEATURES

All new solid-state electronics, individual VU meters "Monitor while recording" assures recording is correct without having to rewind and replay to verify. Other recorders with combination record/reproduce or rotary heads do not permit monitoring tape while recording.

New precision milled die-cast transport assures long-term alignment of all components, and provides accurate tape guidance whether system is mobile or stationary.

- Relay/solenoid controls permit full remote control, using Ampex accessory remote control.
- All units may be rack mounted. Two-channel models also supplied in portable cases.
- Four-digit resettable counter for easy location of specific messages. Uses standard, economical $\frac{1}{4}$ " tape.
- All normal operating adjustments are made from the front. Maintenance is simplified because of accessibility.
- Head alignment "locked" to eliminate periodic need of head adjustment.
- Lifetime, solenoid-operated self-adjusting brakes.
- Hysteresis, synchronous motor for timing accuracy. Reserve power insures against stalling or overloading.

Accidental erasure is prevented by elimination of erase head. Re-use is accomplished through accessory bulk erase devices.

Accessory plug-in units match various inputs; 600 ohm line matching transformer, balanced bridging transformer, 60 dB solid-state microphone pre-amplifier for low impedance microphones.

Additional accessories available include: AA-620 speaker/amplifier, AM-10 6-position stereo/mono mixer, professional microphones, and remote control unit.

SPECIFICATIONS

General performance of the AL-500 is described in terms of specifications which are measured by professional standard methods. These are the **guaranteed minimum** specifications the user can expect in long-term operation.

Overall Frequency Response:	200-3,000 Hz ± 3 dB at $1\frac{1}{2}$ ips 200-5,000 Hz ± 3 dB at $1\frac{7}{8}$ ips
Signal-To-Noise Ratio:	(Peak record level to unweighted noise. Includes bias, erase and playback amplifier noise.) At $1\frac{1}{2}$ ips and $1\frac{7}{8}$ ips (60 Hz): 40 dB.
Flutter and Wow:	Less than 0.5% rms at $1\frac{1}{2}$ ips 0.4% rms at $1\frac{7}{8}$ ips
Speed Accuracy:	$\pm 0.6\%$ at $1\frac{7}{8}$ ips $\pm 1.0\%$ at $1\frac{1}{2}$ ips
Outputs:	+4 dBm into 600 ohm balanced or unbalanced load. Cannon XL Connectors. Single headphone jack provided.
Inputs:	Two inputs per channel, individual gain controls on each. No. 1 and 2: Balanced or unbalanced bridging (bridging transformers supplied) with provisions for plug-in 600 ohm transformers or low impedance plug-in microphone pre-amps.
Start Time:	Start time to 95% of full tape speed: Less than 100 milliseconds.
Speeds:	$1\frac{1}{2}$ ips and $1\frac{7}{8}$ ips
Counter:	4-digit resettable
Bias Current Adjustment:	Adjusted to attain maximum recorded signal at 15 mil wave length when using Ampex 631 tape.
Power Required:	117 volts AC, 60 cycles. 50 cycle models, 117/230 volt 3 wire grounded cable supplied
Dimensions:	Rack Space: Standard 19" Width. 2 channel unit—15 $\frac{3}{4}$ " vertical space 4 channel unit—22 $\frac{3}{4}$ " vertical space Unmounted components: Transport: 8 $\frac{3}{4}$ " (22.2-cm) high x 19" (48.2 cm) wide x 6" (15.2 cm) deep Electronics: 3 $\frac{1}{2}$ " (8.9 cm) high x 19" (48.2 cm) wide x 5 $\frac{7}{8}$ " (14.4 cm) deep
Weight:	In portable case, 52 lbs.

PROFESSIONAL USER PRICE

	Catalog No.		Price
	60 Cycle	50 Cycle	
Two Channel (Four Track)			
Unmounted	4010062-02	4010062-05	\$1,432.00
Portable	4010062-01	4010062-04	\$1,524.00
Four Channel* (Four Track)			
Unmounted	4010062-03	4010062-06	\$2,295.00
U. L. Listed	(*Four channel models permit recording of either one, two, three or four channels simultaneously.)		

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Ampex Corporation reserves the right to change specifications without obligation. These specifications supersede all previous specifications, stated or implied.

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