



AMPEX

601-2



Portable Two-Track Stereophonic Recorder

*Full Professional Quality in
Recording and Reproducing
Stereophonic Sound...with
the utmost in convenience
and portability*

Check these Ampex-engineered features!

- Precision In-Line Stereo heads for recording and playback
- Freedom from inter-channel crosstalk
- Separate mixing facility on each channel between microphone and other inputs
- Records both stereo and single channel tapes
- Plays back stereo, full or half track tapes

PLUS these performance-proved features of the Ampex 601!

- Instantaneous starting
- Illuminated record safety button
- Low impedance output
- Plug-in low impedance microphone transformer

COMBINES PERFECTION WITH PORTABILITY

The Ampex 601-2 offers a new high level of perfection in professional stereophonic recording and reproduction, and makes it available in its most compact, portable form. Tapes recorded on the 601-2 are indistinguishable from those recorded at the same tape speed on Ampex Models 300-2 and 350-2.

The recorder safely handles "50% extra playing time" tapes to give you 48 minutes of stereophonic recording time at 7½ i.p.s.

VERSATILITY FOR BROAD APPLICATION

Stereophonic tapes recorded on the Ampex 601-2 offer authentic realism, not only because of wide frequency and dynamic ranges, but also because of the audio perspective, the depth and direction afforded by true stereophonic sound. Among the many applications for stereophonic sound are these: broadcasting, research on sounds, acoustical and noise reduction studies, music and dramatic rehearsal, court room and conference reporting, military uses, re-creation of music in the home or auditorium, and sales promotion or demonstration programs.

A particularly advantageous use of the 601-2 is in making two-channel recordings for monaural playback. In recording a soloist against an orchestral background, for example, the soloist can be recorded on one channel and the orchestra on the second channel. On playback, the balance of sound level between the soloist and orchestra can be continuously monitored

and adjusted while re-recording on single channel tape or disc. This technique also lends itself to special acoustic effects such as selective addition of echo to one channel.

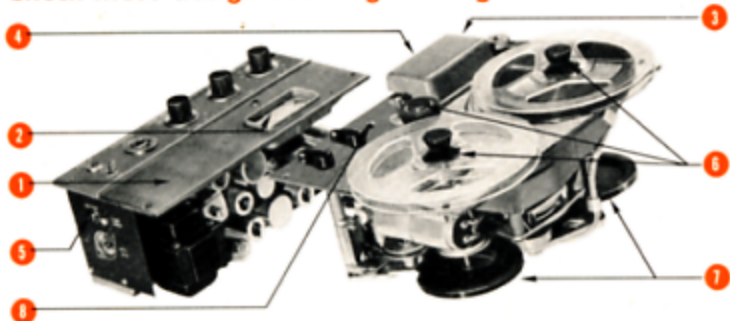


AMPEX DESIGN plus AMPEX ENGINEERING makes AMPEX QUALITY

Year-in, year-out, Ampex recorders offer a dependability of performance that has made them the standard of the recording industry. Rugged, die-cast parts, high-quality components, and safety factors well above specifications all add up to unmatched reliability and freedom from mechanical and electrical failures. Quiet, vibrationless operation and precision speed control are assured by shock-mounted synchronous power

drive, positive shaft alignments, and lifetime bearings. Ampex recorders are characterized by absolute uniformity, part-to-part and recorder-to-recorder. This uniformity comes not only from rigid adherence to tolerances and specifications, but even more from a basic uniformity in the processes of design, engineering and construction. The overall result is an unmatched uniformity of performance.

Check these design and engineering features that add up to AMPEX PERFORMANCE



- 1 Separate record and playback amplifiers
- 2 Direct reading meter for both playback and recording levels
- 3 Separate erase, record and playback heads
- 4 Magnetic playback head gap width: .00025"
- 5 Low impedance output
- 6 Extremely close tolerances in all bearings and shafts
- 7 Tape tension controlled to 8 ounces maximum
- 8 Illuminated safety button to indicate recording mode.



The head assembly consists of a Full-Track ERASE, Two-Track RECORD, and Two-Track PLAYBACK arrangement, in this order.

MODEL

601-2

GENERAL PERFORMANCE CHARACTERISTICS AND SPECIFICATIONS

HEADS	Full-track erase, 2 channel (in-line) record, and 2 channel (in-line) playback heads, in that order.
TAPE SPEED	7 1/2 in./sec.
REEL SIZE	7" RETMA reel maximum; top may be closed with 5" reels.
FREQUENCY RESPONSE	30 to 15,000 cycles/sec.; down no more than 4 db at 15,000; ± 2 db from 40 to 10,000 cycles/sec. Over 50 db at 3% harmonic distortion.
SIGNAL-TO-NOISE RATIO	In excess of 50 db.
EFFECTIVE INTER-TRACK CROSSTALK REJECTION	Below 0.17%.
FLUTTER AND WOW	Instantaneous (tape accelerates to full play mode in less than one-fifth second).
STARTING TIME	Less than one second.
STOPPING TIME	32 minutes with 7-inch, 1200-foot reel; 48 minutes with 7-inch, 1800-foot reel.
PLAYING TIME	90 seconds for full 1200-foot reel.
FAST FORWARD OR REWIND TIME	± 0.2% (± 3.6 seconds in a 30 minute recording).
PLAYBACK TIMING ACCURACY	<i>Play—Record:</i> Selector Switch (safety button must be pressed when going from Play to Record). Safety button is illuminated in record mode. <i>Fast Forward—Rewind:</i> Selector Switch (interlocked with Play—Record Switch).
OPERATING MODES	Separate Mixing Controls for each channel; Microphone Record Level, and Line Record Level. Two Professional Meters read directly all operating levels on each channel.
LEVEL CONTROLS	Microphone: Accommodates high or low impedance microphone (Low impedance microphone input secured by adding accessory plug-in transformer Ampex Cat. No. 17331-1). Line (unbalanced): 0.5 volt required for program record level.
RECORD INPUTS (EACH CHANNEL)	600 ohms, 1.23 volts. Balanced or unbalanced (from tapes recorded at program level).
PLAYBACK OUTPUT (EACH CHANNEL)	Two phone jacks permit monitoring the 2 channel input to the record head or the 2 channel playback output of the tape while recording. This is done with Monitor Selector Knobs which may be turned to "Input" or "Tape."
MONITORING	Separate record, playback, microphone and line input amplifiers are used. Amplifier distortion at any operating level is negligible (maximum 1% distortion).
AMPLIFIERS (EACH CHANNEL)	Three separate heads: erase, 2 channel record, 2 channel playback. Heads are contained in a single head housing.
HEAD HOUSING	117 volts, 60 cycle, 85 watts.
POWER REQUIREMENTS	Transport top area: 9 3/8" x 12 1/2". Electronic top area (each of 2): 6 1/8" x 12 1/4". Depth below top plate: 5". Overall size, including carrying case: 8" x 13" x 24 1/2".
DIMENSIONS	42 pounds.
WEIGHT	Plug-in Low Impedance Microphone Transformer: Catalog No. 17331-1. Amplifier-speaker unit in matching case: Ampex 620.
ACCESSORIES	Portable case or unmounted chassis. 60 cycle operation (50 cycles available on special order). 7 1/2 ips tape speed (3 3/4 ips available on special order).
OPTIONS TO SPECIFY WHEN ORDERING	

AMPEX
CORPORATION

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SIGNATURE OF PERFECTION IN SOUND