

**NEW ELECTRONICS – NEW IMPROVED TRANSPORT  
NEW VERSATILITY – NEW ONE-YEAR WARRANTY**

The new 602 is a field recorder that will go where you go – and give you the reliability and professional studio-quality you need when you get there! For rack mounting in the studio it uses minimal rack space.

**AMPEX**  
**602**  
**SERIES**  
**PROFESSIONAL**  
**FIELD**  
**RECORDERS**

**New advancements in the famous, performance-proven Ampex 600 series!**

**602-1**

**ONE CHANNEL RECORDER**

Choose full or half-track heads. A rugged, dependable recorder that will meet your performance requirements for a professional mono unit.

**602-2**

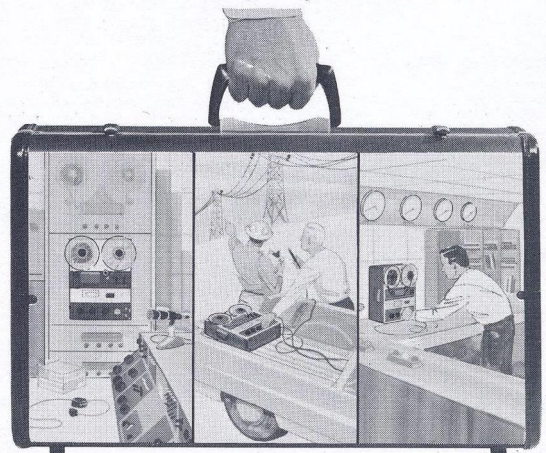
**TWO CHANNEL RECORDER**

Two-track heads with selective-track erase head, two electronic channels, give you the versatility of 2-track stereo and half-track mono in one unit.

**622**

**SPEAKER/AMPLIFIER**

Gives you "on-the-spot" studio-quality playback for demonstration or monitoring . . . 10-watt amplifier gives ample volume for a medium size auditorium.

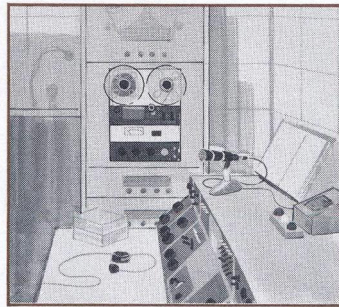


# AMPEX

# 602 SERIES

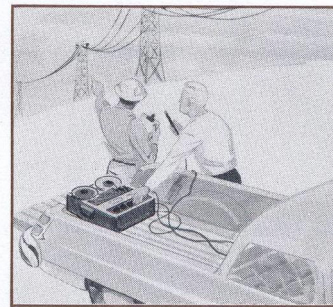
## PROFESSIONAL FIELD RECORDERS

- All New Electronics
- Improved Transport
- Built-in Low Impedance Mike Transformer
- Record/Safe Switch on Each Channel of 602-2
- Redesigned Clutches Give up to 10 Times Longer Life
- Cool Operation, Silicon Diode Rectifiers
- Hysteresis Synchronous Drive Motor
- DC Filament for Low Noise



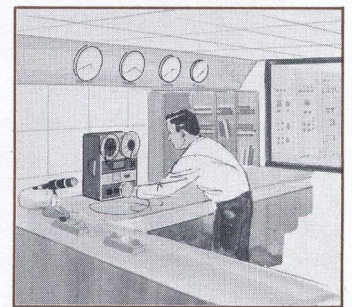
### VERSATILITY ...TO DO WHAT YOU WANT

- monitor tape or source while recording (separate heads, separate record and playback amplifiers).
- separate mixing controls for mike and line (two mikes can be mixed on one channel with accessory plug-in preamp in line circuit).
- horizontal or vertical operation.
- large, 3" professional VU meter(s) for monitoring during recording or playback.
- will feed 600 ohm remote broadcast line.



### PORTABILITY ...TO GO WHERE YOU GO

- lightweight, mono model weighs only 28 pounds.
- easy-to-carry case, built for lasting durability.
- sturdy, die-cast parts, high-quality components, and safety factors well above specifications, assure reliable operation during rugged operating conditions in field use ... even after rough handling.
- electronic adjustments accessible through "window" in rear of portable case.



### DEPENDABILITY ...YOU CAN COUNT ON

- uses time-proven basic Ampex 600 transport design — accepted as the world-wide standard for portable recorders.
- will cost less per hour than recorders of lesser quality, because it will require fewer adjustments and fewer parts replacements.
- both 602 recorders and 622 speaker/amplifiers are covered by the new Ampex "Four Star" ONE YEAR WARRANTY with full protection on parts for a year.

### SPECIFICATIONS / 602 SERIES

Measured by professional standard methods. These are the guaranteed minimum specifications the user can expect in long-term operation.

|  |  |
|--|--|
| <b>FREQUENCY RESPONSE:</b>               | 40 to 15,000 cps; down no more than 4 db at 15,000; $\pm 2$ db from 40 to 10,000 cps at 7½ ips. 3¾ ips model $\pm 2$ —4 db from 40 to 8,000 cps.   |
| <b>SIGNAL-TO-NOISE RATIO:</b>            | Model 602-1: with full track head, over 57 db; with half-track head, over 55 db. Model 602-2: over 55 db. All at 7½ ips.   |
| <b>FLUTTER AND WOW:</b>                  | Less than 0.17% at 7½ ips; less than 0.25% at 3¾ ips (measured at ASA standard).   |
| <b>TIMING ACCURACY:</b>                  | $\pm 0.2\%$ at 7½ ips ( $\pm 3.6$ seconds in a 30 minute recording).   |
| <b>FAST FORWARD OR FAST REWIND TIME:</b> | 90 seconds for full 1200-foot reel.  |
| <b>HEADS:</b>                            | Three separate heads: erase, record, playback.<br>Model 602-1: Full-track or half-track<br>Model 602-2: Two-track heads  |
| <b>SPEEDS:</b>                           | 7½ ips model or 3¾ ips model.  |
| <b>REEL SIZE:</b>                        | 7" and 5"  |
| <b>INPUTS (each channel)</b>             | Two inputs, individual gain controls on each.<br>a. low impedance mike input, 150 microvolts required for program record level (for use with mikes of 30 to 250 ohms nominal impedance).<br>b. Line input (100K unbalanced), $-10$ dbm required for program record level.<br><br>All inputs are Cannon XL connectors. Provision for use of plug-in balanced line or bridging input transformers.<br><br>Line input can be used as input for second microphone by accessory plug-in preamplifier (allowing 2 microphones to be mixed on one channel). |
| <b>OUTPUTS (each channel):</b>           | a. $+4$ dbm into 600 ohm. Balanced or unbalanced load.<br>b. Head phone jack (on front panel).<br>Monitor selector knob permits monitoring from either the input source or the tape playback, while recording.   |
| <b>EQUALIZATION:</b>                     | For 117 volt, 60 cps models:<br>7½ ips, NAB; 3¾ ips, 120 microsecond.<br>For 115/230 volt, 50 cps models:<br>7½ ips (19 cm/s), NAB or CCIR; 3¾ ips (9.5 cm/s), 120 or 200 microsecond.   |
| <b>POWER REQUIREMENTS:</b>               | Models for 117 v., 60 cps; 115/230 v., 50 cps. Model 602-1, 70 volt-amperes; Model 602-2, 105 volt-amperes.  |
| <b>WEIGHT (in case); TAPE</b>            | Model 602-1: 28 lbs. Model 602-2: 42 lbs.<br>Ampex 600 Series recording tape recommended for optimum performance.  |
|  | <b>U.L. APPROVED</b>   |

### SPECIFICATIONS / 622 SPEAKER-AMPLIFIER

|   |   |
|---|---|
| <b>OVERALL FREQUENCY RESPONSE (in air):</b> | Essentially flat acoustically, range better than 65-10,000 cps.   |
| <b>SPEAKER SIZE:</b>                        | Special design 8" full-range speaker.   |
| <b>POWER OUTPUT:</b>                        | 10 watts amplifier power with no audible harmonic distortion. Speaker can handle full power.  |
| <b>SIGNAL-TO-NOISE</b>                      | Amplifier noise (including hum), 70 db below rated output.  |
| <b>CONTROLS &amp; CONNECTIONS:</b>          | Volume control, bass-treble control, power switch and on-off indicator light. Built-in AC convenience outlet. Audio input connector is concentric pin type. External speaker connection is headphone type jack. |
| <b>EQUALIZATION:</b>                        | Single control on front panel provides adjustment, boosting bass and attenuating treble or vice versa. Maximum bass boost 6 db relative to treble. Maximum treble boost 6 db relative to bass.                  |
| <b>EXTERNAL SPEAKER FEED:</b>               | Use of "SPEAKER" jack automatically cuts out the 622's internal speaker and reciprocal network. Flat amplifier output is fed to the external speaker.   |
| <b>IMPEDANCE:</b>                           | Inputs, 100,000 ohms. Output, 12 ohms to external speaker.  |
| <b>POWER REQUIREMENT:</b>                   | 117 volts, 50 or 60 cycles, 0.5 amps, 55 watts.   |
| <b>WEIGHT:</b>                              | 25 pounds.  |
|   | <b>U.L. APPROVED</b>  |

### DIMENSIONS / 602-1 602-2 622

|  |  |
|--|--|
| Transport top area:  | 9-5/16" x 12½"   |
| Electronic top area:   | 6¼" x 12½"<br>(two electronic sections in Model 602-2).  |
| Depth below top plate:   | 5"   |
| Overall size, including carrying case:   | Model 602-1: 8" x 13¾" x 16½"<br>Model 602-2: 8" x 13¾" x 23"  |
| Rack Space: will mount in standard 19" width rack, with appropriate Ampex adapter panel. |  |
|  | Model 602-1 with #864 Adapter Panel, takes only 17½" of vertical rack space.<br>Model 602-2 with #865 Adapter Panel, takes only 23¾" of vertical rack space.<br>Model 622 speaker/amplifier, overall size in carrying case: 13" x 16" x 8" |

Ampex equipment may be purchased or leased under special Ampex finance plans.

AMPEX CORPORATION

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