



The Inovonics 370 is a replacement electronics package for updating older professional recorders. It is a basic, two-speed, "no frills" unit with excellent performance, high reliability and of rugged construction to meet the demands of continuous use in broadcast, studio and educational applications.

The 370 accommodates virtually any combination of original and replacement heads of either high or low impedance. It is pin-compatible with Ampex 300-, 350- and 440-series machines and easily adapted to most other professional recorders.

370 Features

Sufficient erase, bias and signal headroom for high-coercivity tapes.

Two units plug together for stereo operation.

All controls are "up front" for easy setup; calibration adjustments are stable, multi-turn pots.

Entire electronics assembly unplugs from the front for ease in servicing; all components are standard, "off-the-shelf" available parts.

370 Specifications

NOTE: Performance of any magnetic recording system is limited in great part by the electrical and magnetic efficiency of the heads and the formulation of magnetic oxide. The following specifications were derived using a set of full-track Nortronics replacement heads for an Ampex 351 recorder; 9125 Erase, 9103 Record and 9102 Reproduce. Tape used was Ampex 406 at an Operating Level of 200nW/m.

Overall Frequency Response (in Hz):

15ips	±2dB, 25-25k
7½ips	±2dB, 20-15k
3¾ips	±2dB, 20-8k

Signal-to-Noise Ratio (in dB, referred to a "peak" record level 6dB above 200nW/m; 20Hz-20kHz):

	OVERALL		STANDBY	
	u'wtd.	wtd.	u'wtd.	wtd.
15ips	-66	-74	-75	-83
7½ips	-67	-74	-75	-83
3¾ips	-63	-70	-70	-77

Equalization: 3¾-7½ips or 7½-15ips speed pairs; NAB equalization, user-changeable to IEC.

Erase: >75dB erasure of 500Hz signal recorded 12dB above Op Level. Erase/bias frequency, 125kHz.

Head Impedance Range:

Erase:	0.2-2.0mH
Record:	3-15mH
Reproduce:	3mH-1H

Line Input: "Electronically-balanced," bridging; accepts nominal line levels between -10 and +10dBm.

Line Output: Balanced, transformer-isolated; may be adjusted for nominal line levels between +4 and +10dBm. Clipping level, +24dBm into 600-Ohm load.

Power Requirements: 105-130VAC (230V available), 50/60Hz; 0.3A (plus transport).

Size and Shipping Weight: 3½" × 19" × 7"; 12 lbs.

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