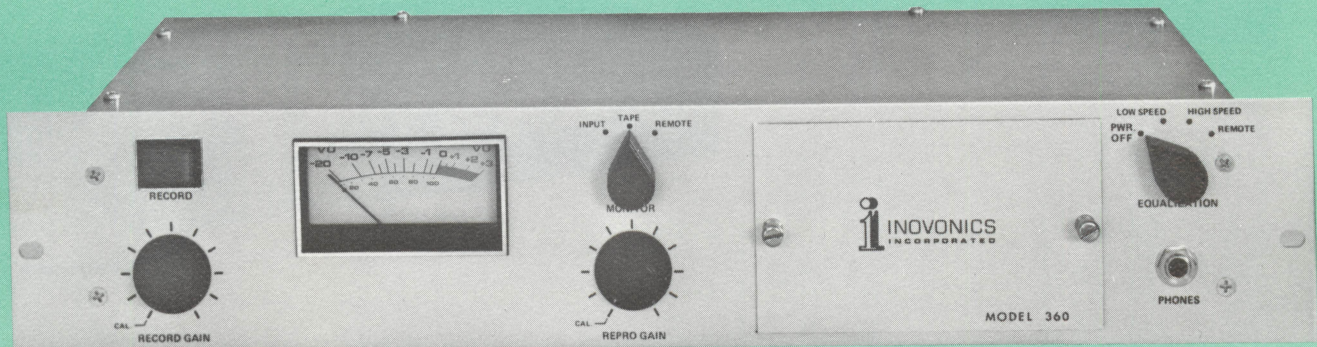




INOVONICS
INCORPORATED

MODEL 360

TAPE RECORDING ELECTRONICS



A completely self-contained and highly reliable Tape Electronics for upgrading single channel recorders in Radio Broadcast, Institutional, and similar demanding applications.

FEATURES:

Interfaces Directly with Ampex 300, 350 and 351 tape transports.

Accommodates a wide variety of original-equipment and replacement heads.

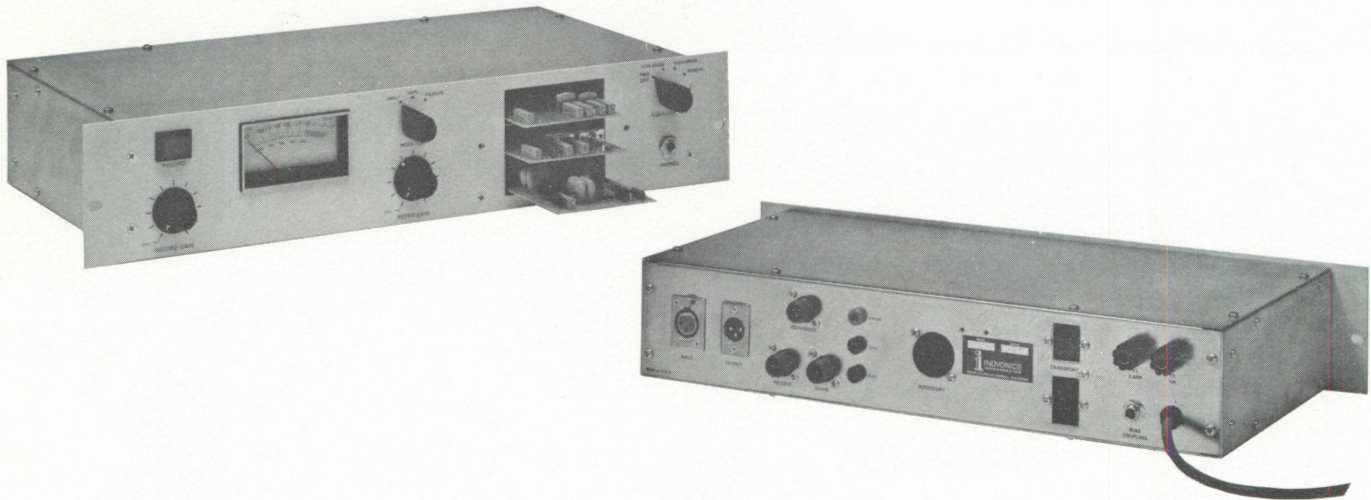
Solid State monitor and equalization switching eliminates contact noise and permits remote control of both these functions.

Fully Regulated internal power supply assures stable operation despite wide variations in line voltage.

Plug-In Circuit Cards combine advantages of both IC and discrete circuitry for unexcelled performance and trouble-free operation.

Innovative Electronics for Recording and Broadcasting

MODEL 360 SPECIFICATIONS



THESE SPECIFICATIONS WERE DERIVED USING 3M 206 TAPE AND A TABER FULL TRACK REPLACEMENT HEAD ASSEMBLY, ON AN AMPEX 351 TRANSPORT.

Frequency Response (in Hz)

15ips	±2dB	30 – 15k
7½ips	±2dB	30 – 12k
3¾ips	±3dB	30 – 8k

Signal-to-Noise Ratio (in dB) (1)

	OVERALL		STANDBY	
	u'wtd	wtd	u'wtd	wtd
15ips	-66	-72	-76	-83
7½ips	-69	-74	-76	-83
3¾ips	-65	-72	-72	-79

Equalization

¾-7½ or 7½-15 NAB equalization with solid-state-switching

Erase/Bias Frequency

100kHz

Erasure

70dB erasure of 500Hz signal recorded 3dB below tape saturation.

Amplifier Distortion

Record: <.1% THD at Operating Level
<.2% THD 25dB above Operating Level
Reproduce: <.1% THD at Operating Level

Input

Sensitivity: -20 to +8dBm
Impedance: 10k, unbalanced (transformer optional)

Outputs

Line Output feeds 600 ohm line or bridging input at +4 or +8dBm. Clipping Level +24dBm.
Front Panel headphone jack

Panel Controls

RECORD GAIN (with preset CAL position)
REPRO GAIN (with preset CAL position)
MONITOR: selects INPUT or TAPE monitor, or activates REMOTE control of monitor functions.

EQUALIZATION: selects between PWR. OFF and LOW SPEED, HIGH SPEED, or REMOTE equalization

Power Requirement

105-130VAC (230V available), 50/60Hz,
.3A (plus transport)

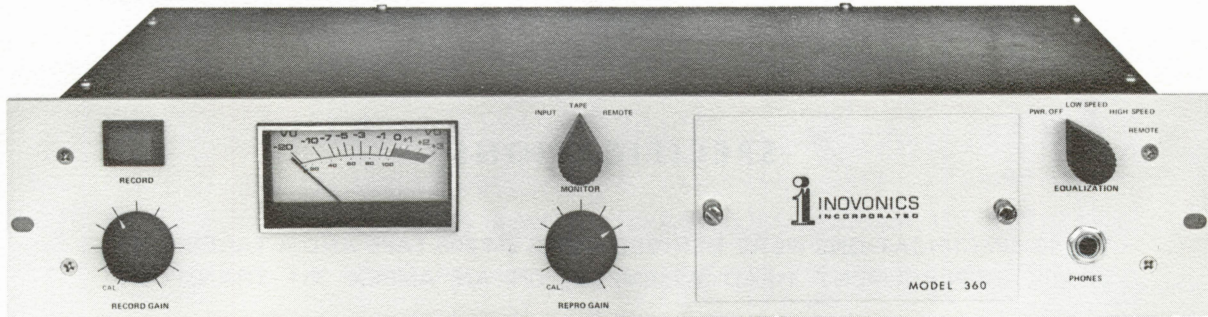
Size and Shipping Weight

3½" x 19" x 9", 17 lbs.

(1) Referred to 6dB above a flux level of 200nW/m, or approximately 3dB below the 3% THD point of 3M 206 tape.

MODEL 360

TAPE RECORDING ELECTRONICS



A completely self-contained, highly reliable Tape Electronics for upgrading single channel recorders in Radio Broadcast and similar demanding applications.

FEATURES

Interfaces Directly with Ampex 300, 350 & 351 tape transports.

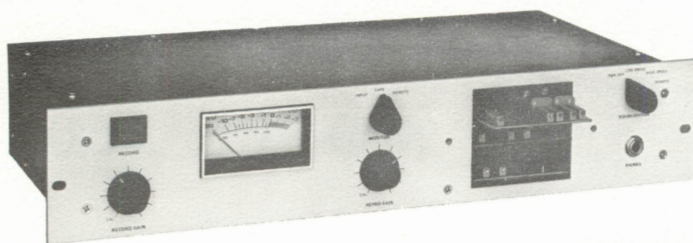
Accommodates a wide variety of original-equipment and replacement heads.

Solid State monitor and equalization switching eliminates contact noise and permits remote control of both these functions.

Fully Regulated internal power supply assures stable operation despite wide variations in line voltage.

Plug-In Circuit Cards combine advantages of both IC and discrete circuitry for unexcelled performance and trouble-free operation.

MODEL 360



SPECIFICATIONS

THESE SPECIFICATIONS WERE DERIVED USING 3M 206 TAPE AND A TABER FULL TRACK REPLACEMENT HEAD ASSEMBLY, ON AN AMPEX 351 TRANSPORT.

Frequency Response (in Hz)

15ips	±2dB	30 – 15k
7½ips	±2dB	30 – 12k
3¾ips	±3dB	30 – 8k

Signal-to-Noise Ratio (in dB) (1)

	OVERALL		STANDBY	
	u'wtd	wtd	u'wtd	wtd
15ips	-66	-72	-76	-83
7½ips	-69	-74	-76	-83
3¾ips	-65	-72	-72	-79

Equalization

3¾ – 7½ or 7½ – 15 NAB equalization with solid-state switching.

Erase/Bias Frequency

100kHz

Erasure

70dB erasure of 500Hz signal recorded 3dB below tape saturation.

Amplifier Distortion

Record:	<.1% THD at Operating Level <.2% THD 25dB above Operating Level
Reproduce:	<.1% THD at Operating Level Clipping level +24dBm.

Input

Sensitivity: -20 to +8dBm

Impedance: 10k, unbalanced (transformer optional)

Outputs

Line Output — feeds 600 ohm line or bridging input at +4 or +8dBm.

Front Panel headphone jack

Panel Controls

RECORD GAIN (with preset CAL position)

REPRO GAIN (with preset CAL position)

MONITOR: selects INPUT or TAPE monitor, or activates REMOTE control of monitor functions.

EQUALIZATION: selects between PWR. OFF and LOW SPEED, HIGH SPEED, or REMOTE equalization

Power Requirement

105 – 130VAC, 50/60Hz, .3A (plus transport)

Size and Weight

3½" X 19" X 9"; 9 lbs.

Price

(1) Referred to 6dB above a flux level of 200nW/m, or approximately 3dB below the 3% THD point of 3M 206 tape.