

Inovonics 260

Utility Audio Processor

COMPREHENSIVE PROCESSING FOR FM AND TV BROADCAST, UPLINKING AND STUDIO USE

The Model 260 is a multifunction stereo audio processor offering AGC, dynamic range compression and split-spectrum peak limiting in a single, easy-to-use package. The three functions comprise a complete audio processing chain, or may be accessed singly as dictated by the application.

Developed to satisfy a multitude of basic audio processing requirements, the 260 eliminates the need for the user to adjust any processing parameters. This makes it ideal for TV-aural, educational FM and similar applications that do not demand aggressive processing, yet do require absolute program level control.



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Features & Specifications

- Gated AGC and compression; program-controlled 'floating platform' limiter release characteristic.

- Feedforward pulse-width-modulation (PWM) audio processing for a very smooth sound devoid of processing artifacts.

- Unique level alarm warns of 'dead air' and out-of-limits operation.

FREQUENCY RESPONSE

±0.5dB, 10Hz-15kHz

NOISE

Better than 75dB below 100%-modulation output level, 10Hz-15kHz

DISTORTION

(With full AGC correction and 10dB dynamic reduction): <0.5%THD, 20Hz-15kHz; <0.25%THD, 50Hz-10kHz

CROSSTALK

Better than -60dB, 10Hz-10kHz

PROGRAM LINE INPUTS (L/R)

Active-balanced, bridging; accept program audio levels between -20dBu and +10dBu.

PROGRAM LINE OUTPUTS (L/R)

Active-balanced, 600-ohm source impedance; deliver 0dBm to +15dBm into 600-ohm loads.

GATE CIRCUIT

Gating inhibits AGC 'hunting' and compression release during brief pauses in the input program. Extended program loss slowly returns circuit gains to resting values.

AGC AMPLIFIER

Slow-AGC erases long-term program level variations for more consistent compression and limiting action. AGC may be independently defeated by grounding a rear-panel terminal. Correction range: ±12dB; correction rate: 0.5dB/sec.



Rear view

DYNAMIC REDUCTION

Compression and limiting share a common split-spectrum gain control circuit. The two functions are separated by a time-domain "floating platform" attack/release characteristic. Compression or total dynamic reduction may be independently defeated by grounding rear-panel terminals.

SPECTRUM DIVISION

Independent high frequency gain reduction follows the 75µs pre-emphasis characteristic. (50µs optionally available.)

SAFETY CLIPPER

Active only on limiter overshoots that would exceed 100% modulation. Conforms to pre-emphasis characteristic.

LEVEL ALARM

Front-panel indicator flashes when AGC correction exceeds ±9dB, or when "dead air" exceeds 10 seconds.

POWER REQUIREMENTS

105-130VAC or 210-255VAC, 50/60Hz; 20W

SIZE AND SHIPPING WEIGHT

1-3/4"H x 19"W x 8"D (1U); 12 lbs.