

# 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.



# Inovonics 260

## 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.