

Twenty-two years of progressive research into loudness perception resulted in a limiter/compressor unlike any other. The 8900 Dynamic Range Controller was intrinsically developed to react to loudness (rather than volts) like our ears do. The 8900's psycho-acoustic approach uses multiple true-RMS detectors, remarkably accurate log converters, and fast peak detectors to respond intelligently to real signal energy, not just level.

This unusual design employs unique controls, like Crest Factor, Timing, and Release Hysteresis to access the parameters that you really want to adjust. Familiar features such as Stereo Link, Soft/Hard Knee, Ratio, Output Level, as well as the comprehensive 40-segment tricolor Gain/Loss metering have been carefully optimized for flexible, creative control over a wide dynamic range with a lack of audible artifacts. Very useful is the Side Chain Input that permits external frequency shaping to be introduced into the detection circuitry. The entire audio path is all-discrete, including the VCA, for unsurpassed transparency and low-level resolution.



SPECIFICATIONS

INPUT

- 20 kOhm balanced bridging; Pin 3 hot
- 57 dB common mode rejection at 20kHz
- +27.4 dBv maximum before clipping
- Individually channel switchable on back panel for +4 or -10

THROUGHPUT

- ±0.1 dB, 16 Hz to 68 kHz response (controls at zero)
- 0.01% Harmonic distortion at any frequency 20 Hz - 20 kHz¹, no gain reduction
- 0.009% SMPTE Intermodulation distortion²
- 30 v/usec discrete low noise, high performance amplifiers
- no electrolytic interstage or output coupling capacitors
- noise -96.5 dBv bypassed, -74 dB absolute worst case (control position dependent)
- rolloff: 3 dB down at 260 kHz

FORM FACTOR - 2 CHANNELS, Each with Separate Peak and Dual RMS Detectors

- Discrete VCA; Discrete Audio Chain
- Front Panel Sidechain; Stereo and multiple unit control link
- 40 Segment Tricolor meter; Meter range -20 to +20, true gain through unit
- 4 segment instantaneous ratio meter (approximate indication of soft knee actuation)
- Peak, FastRMS and SlowRMS indicators

OUTPUT

- +27.4 dBv clipping; unbalanced; Pin 3 Hot
- 3 mv output offset, stabilized by D.C. servo correction

OTHER

- external power supply: ±28 VDC & ±18 VDC
- ground and chassis straps at rear
- 19" x 3 1/2" rack case, black anodized aluminum, silver legend, 8 1/2" deep
- weight: 7 lbs.

¹ Includes Sound Technology 1710A residual, 30kHz LP filter

² Measured at +20 dBv ST 1710A; analyzer residual 0.0018%

For sales and product information:

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