

Universal Audio AUDIO LEVELER

MODEL
LA-5

Covered by U.S. Patent No. 3,258,707



MODEL LA-5

FEATURES:

The LA-5 Audio Leveler has been developed by UREI to fill the needs of the sound reinforcement professional. Its characteristics have been optimized as the ideal combination for protection of amplifiers and speakers from power overload. Detection of the signal and control of the level, limit output power to a safe value preset by the operator or installer regardless of the input signal level.

The LA-5 removes much of the burden from the mixer who must compensate continually for poor microphone technique and large dynamic ranges during live performances. The patented type of detection and gain control used in the LA-5 are consistent with the way we perceive sound. This results in a smoothness of control unmatched by peak limiters of conventional design. Inputs and outputs are balanced, or may be used single ended. High input impedance and low output impedance allow maximum flexibility in patching and interface. The recent development of dedicated integrated circuits allow an even better signal-to-noise ratio than was possible in earlier designs.

Because its gain reduction circuitry is RMS responding, the LA-5 is not recommended for overmodulation protection of broadcast transmitters, disc or optical recorders, unless followed by a peak limiter, such as the UREI 1176 LN.

- Long-life LED Optical Attenuator.
- Smooth, natural-sounding RMS action.
- Simple operation — set and forget.
- Input overload indicator.
- True standard volume indicator (VU).
- Space-saving half-rack size.
- Competitively priced.
- UREI quality, of course.



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TECHNICAL SPECIFICATIONS

ELECTRICAL

INPUT IMPEDANCE	:	40 kohm, used as a balanced differential input. 20 kohm, used as an unbalanced single-ended input.
OUTPUT LOAD	:	150 ohms to infinity.
EQUIVALENT INPUT NOISE	:	-90 dBm (15.7 kHz bandwidth).
GAIN	:	40 dB maximum.
FREQUENCY RESPONSE	:	20-20,000 Hz, ± 0.5 dB
DISTORTION	:	Less than 0.25% 30 Hz to 15 kHz.
ATTACK TIME	:	1 to 10 milliseconds for 63% correction depending on signal waveform.
RELEASE TIME	:	100 milliseconds to 1 second for 63% return depending on duration of limiting.
COMPRESSION RATIO	:	20:1.
THRESHOLD OF LIMITING	:	-30 dBm to +20 dBm.
POWER OUTPUT	:	+24 dBm into 600 ohm load, +20 dBm into 150 ohm load.
EXTERNAL CONNECTIONS	:	Barrier strip and phone plugs on rear.
METERING	:	Standard VU (0 Ref. = +4 dBm), Gain Reduction, LED indicator for input overload.
MAINS REQUIREMENTS	:	100 - 125 VAC or 200 - 250 VAC 50/60 Hz switch selectable, less than 10 W.
ENVIRONMENT	:	Operation +10°C to +50°C.

PHYSICAL

DIMENSIONS	:	3½" high x 8½" wide x 8" deep. (89 x 216 x 203 mm).
FINISH	:	Panel is 1/8" brushed clear anodized aluminum. Chassis is cadmium plated steel.
WEIGHT	:	6½ pounds, 2.95 kg.
SHIPPING WEIGHT	:	8 pounds, 3.63 kg.
ACCESSORIES	:	SR-21 Single Rack Mount Kit. DR-21 Double Rack Mount Kit.