

Typical Applications

The applications of the Ashly CLX-52 can be divided into two basic categories, limiting and compressing. When used as a protective device it is functioning as a Limiter. It may also be used to reduce the dynamic range of a signal, creating a fuller sounding signal without increasing the loudness peaks, in which case it is functioning as a compressor.

ARCHITECTS SPECIFICATIONS

CLX-52

The unit shall be a dual channel compressor limiter with independent gain, threshold, ratio, attack, release, and output level adjustments. It shall have a detector patch point allowing for the connection of an external equalizer in the detector loop to produce frequency selective limiting; or allows the connection of an external microphone source to produce voice-over-compression. It shall have front panel mounted switches for engaging/defeating the compressor/limiter functions. It shall have front panel switches for selecting input or output meter display. It shall have both XLR and 1/4" connectors on inputs and outputs. Performance specifications shall meet or exceed the following: Gain control shall be ± 15 dB. Threshold shall be adjustable from -40dB to +22dB. Ratio shall be adjustable from 2:1 to infinity. Attack time shall be adjustable from 200uSec to 20mSec. Release time shall be adjustable from 100mSec to 3 seconds. the

output level shall be adjustable from minus infinity to +18dBu. The maximum in-out level shall be +23dBu. The input impedance shall be 20K ohm balanced bridging. The output impedance shall be 200 ohm servo-balanced. The frequency response shall be 20Hz to 20KHz, ± 0.2 dB. Distortion shall be $< 0.01\%$ THD, 1KHz @ 0dBu, and $< 0.15\%$ THD @ +15dBu from 20Hz to 20KHz. Hum and noise shall not exceed -96dBu @ unity gain. The unit shall operate at 100 - 240VAC $\pm 5\%$, 50-60Hz. The unit shall be designed for mounting in a standard EIA 19" rack (19"L x 1.75"H x 8"D) and shall have a shipping weight of 8 lbs. The unit shall be a CLX-52 Compressor Limiter manufactured by Ashly Audio, Inc. No other unit shall be acceptable unless submitted data from and independent research lab verifies that the above size/performance specifications are met.

Features:

- XLR and 1/4" Connectors
- Peak Compression Circuitry
- Precision Balanced Inputs
- Extremely Low Noise and Distortion
- Calibrated Threshold Control
- Detector Patch Point
- Input-Output Meter Switch
- Gain Reduction Meters
- Stereo Tie Switch
- Safety/Compliance: cTUVus/CE, RoHS
- 5-Year Worry-Free Warranty

General Specifications CLX-52

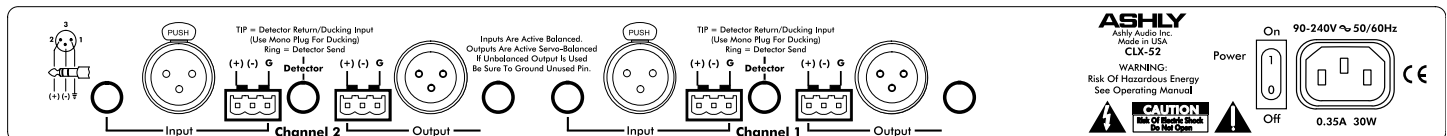
CONTROLS

Gain	$\pm 15\text{dB}$
Threshold	$-40\text{dBu} - +22\text{dBu}$
Ratio	2:1 to ∞
Attack Time	200 μS - 20 mS
Release Time	100 mS - 3 Sec
Output	$-\infty$ to +18 dB
Stereo Tie Switch	Yes
Defeat Switch	Yes
Detector Patch Point	Allows side-chain connection of equalizer for frequency selective operation

Maximum Input Level	+23 dBu
Maximum Output Level	+23 dBu
Input Impedance	20 K Ω balanced
Output Impedance	20 K Ω servo-balanced
Frequency Response	20 Hz - 20 kHz, ± 0.2 dB
Distortion	
0dBu, 1KHz	<0.01%
+15dBu, 20Hz-20KHz	<0.15%,
Output Hum & Noise	-96dBu
Power Requirements	100-240 Volts, 50-60 Hz - 5 watts
Shipping Weight	8 lbs
Dimensions	19"L x 1.75"H x 8"D

Notes: 0dBu = 0.775 Vrms

Rear Panel CLX-52



Applications:

Concert Sound, PA Systems, DJ Systems, Dance/Night Clubs, Churches, Auditoriums, Lecture Halls, Sports Stadiums, Outdoor Festivals, Home Theatre.

Ashly manufactures a complete and comprehensive line of Analog and Digital Signal Processors, Power Amplifiers, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

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