

CLX

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CLX-52 Peak Compressor Limiter



Ashly's CLX-52 Peak Compressor/Limiter is a two-channel universal peak-sensitive automatic gain control (AGC) device with exceptional audio performance, precise controls and rugged durability. The CLX-52 compressor/limiter uses an "infinite soft-knee" characteristic and timing based on compression ratio. This, combined with a dual release time, allows program density to increase as the input signal increases. The result is a peak controller with very low noise, smooth sound, and excellent stereo tracking without the usual "constricted" limiter sound.

Front panel controls allow you to set input gain, threshold, ratio, attack time, release time and output level. Additional front panel features are an in/out switch for each channel, stereo tie switch and eleven-step LED meters for gain reduction and input or output level. All audio connections are XLR, 1/4" TRS and euroblock. Each channel has a TRS insert detector patch point which can be used as a "ducking" input, or in conjunction with an equalizer to produce frequency-sensitive limiting.

A unique feature of Ashly Compressor/ Limiters is the incorporation of a double release-time constant. When a conventional compressor/limiter is adjusted for slow release times, transients such as mic "pops" may cause a severe reduction in gain followed by a slow fadeup, making the action of the limiter very obvious. With the double time constant, release from gain reduction after a brief transient is always fast, with a slower release after a sustained overdrive.

With wide-bandwidth, ultra-low-distortion and a low noise VCA, the CLX-52 is a versatile and highly listenable compressor/limiter. Used in professional sound reinforcement as a protective device it will prevent audio levels from overloading systems, or it can be used to reduce the dynamic range of a signal creating a much louder or fuller sound without increasing the loudness peaks. The CLX-52 is a versatile and highly listenable compressor/limiter suitable for use in professional sound reinforcement, recording and broadcasting.

Features:

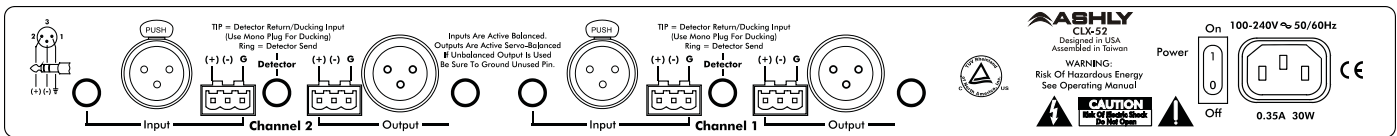
- Peak Compression Circuitry
- Compression ratio variable from 2:1 through Infinity:1
- Precision 11-Step LED Gain Reduction, Input and Output Meters
- Over 60dB of gain reduction
- Extremely Low Noise and Distortion
- Calibrated Threshold Control
- Detector Loop Patch Point
- Input-Output Meter Switch
- Stereo Tie Switch
- Active Balanced Inputs
- Servo-Balanced Outputs
- XLR, TRS 1/4", and Euroblock Connectors
- Universal 100-240VAC Internal Power Supply
- Safety/Compliance: cTUVus, CE, RoHS, FCC

Applications:

- Conventional PA Systems
- FOH
- Monitors
- Speaker Protection
- Feedback Suppression
- Ducking
- De-essing
- Broadcast Limiter
- Broa
- Fatter Drums
- Thicker Guitars
- Punchier Bass
- Recording

CLX-52 Peak Compressor Limiter

Input	Active Balanced, 20 kohms
Max Input Level	+23dBu
Input Gain Range	± 15dB
Output	Servo Balanced, 132 ohms
Max Output Level	+23dBu
Output Gain Range	(-) Infinity to +18dB
Frequency Response	20Hz - 20KHz, ± 0.2 dB
THD	<0.01%, 0dBu, 1KHz <0.15%, +15dBu, 20Hz - 20KHz
Dynamic Range	>110 dB (20 Hz-20 kHz) unweighted
Output Hum and Noise	-96 dBu unweighted
Compressor/Limiter Threshold	19.7Hz to 2Khz
Compressor/Limiter Ratio	2:1 to Infinite:1
Compressor/Limiter Attack	200µS - 20mS
Compressor/Limiter Release	100mS - 3Sec
Connections	XLR, 1/4" TRS, Euroblock
Dimensions	19"Lx1.75"Hx8"D
Power Requirements	100-240 Volts, 50-60 Hz - 30 watts
Shipping Weight	8lbs (Maximum)



Notes:
0dBu = 0.775 VRMS

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