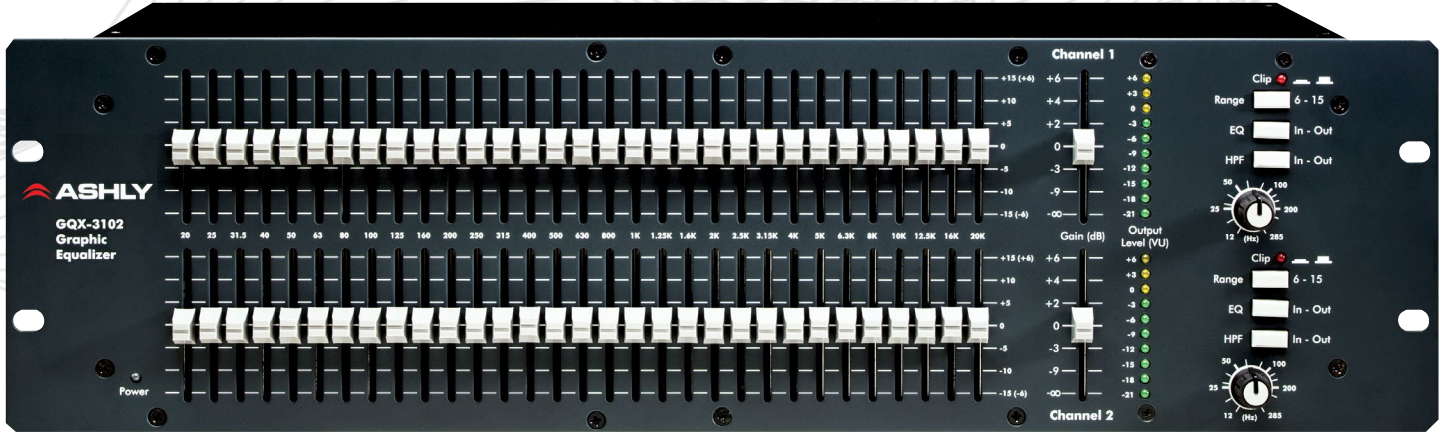




5-Year Warranty



GQX-3102 2-CHANNEL, 31-BAND GRAPHIC EQUALIZER

Ashly EQs are well known as the go-to brand for analog processors for any concert application or commercial pro install. The **GQX-3102** features 2-channels of 31-band 1/3-octave EQ, tunable hi-pass filter circuit, switch-selectable cut or boost of either 6dB or 15dB and 10-segment, 2-color LED meter displays, and clip LEDs. The full-throw 45mm faders have a metal-shaft with the center detented position utilized as an "on/off" switch for that filter to minimize noise levels when the filter is not in use.

Our graphic EQs utilize Wein-Bridge filters using precision components and our specially designed summing amplifiers provide extremely accurate response, low noise, negligible distortion, and excellent immunity to magnetic fields.

GQX-3102 Features:

- Ashly Differentiator: *Tunable Hi-Pass Filter (HPF)*
- 45mm, detented metal shaft faders
- 12dB/octave, tunable hi-pass filter
- True Constant "Q" design
- Tight tolerance components for precise $\leq 3\%$ filter accuracy
- Precision Wein-Bridge filters
- Switchable boost/cut range of ± 6 or ± 15 dB
- 10-position, 2-color LED level meter
- Peak LED indicators
- Balanced inputs, Servo-balanced outputs
- XLR, TRS and Euroblock connections
- Universal 100–240VAC internal power supply
- Rider-friendly
- Safety/Compliance: τ TUV_{us}, CE, FCC, RoHS

Specifications		Note: 0dBu = 0.775 VRMS
Frequency Response	20Hz–20kHz, ± 0.25 dB	
THD	<0.1% @ +20dBu	
IM Distortion (SMPTE)	<0.1% @ +20dBu	
Output Hum & Noise	-90dBu, Unweighted	
Channel Separation	>95dB @ 1kHz	
Gain Control	- ∞ to +6dB	
Input		
Type	Active-Balanced	
Impedance	20k Ohms	
Max Level	+23dBu	
Connectors	1/4" (TRS), XLR, Euroblock	
Output		
Type	Servo-Balanced	
Source Impedance	200 Ohms	
Min Load Impedance	600 Ohms	
Max Level	+23dBu	
Connectors	1/4" (TRS), XLR, Euroblock	
Filters		
Type	Constant Q / Wein-Bridge	
Number	2 x 31	
Bandwidth	1/3 Octave	
Tolerance	$\pm 3\%$	
Range	± 6 dB, ± 15 dB (Switchable)	
Subsonic Filter	12dB/Octave @ 14–280Hz	
Weights & Dimensions		
Dimensions	19"L x 5.25"H x 8"D (483mm x 133mm x 203mm)	
Unit Weight	12.7lbs (5.8kg)	
Shipping Weight	16lbs (8kg)	
Power Requirements		
Nominal Voltage	100–240VAC (50–60Hz)	
Minimal Voltage	85VAC, 30W	





GQX-3102

ARCHITECT & ENGINEERING SPECS

The graphic equalizer shall be stereo (2 channels). Each channel shall consist of 31 bands centered on standard ISO frequencies at intervals of 1/3 octave and covering a frequency range of 20Hz to 20kHz. Individual bands shall be activated by linear slide faders with a 45mm travel, metal actuator shafts and a tactile center detent. The range of equalization per band shall be either $\pm 6\text{dB}$ or $\pm 15\text{dB}$ selected via a 2-position switch. The equalizer shall have a gain of unity with all sliders centered, and shall have a maximum in/out level of +23dBu. Frequency response shall be $\pm 25\text{dB}$ 20Hz to 20kHz. Hum and noise shall be less than -95dBu and SMPTE intermodulation distortion or THD shall be less than .01% at full output. Input impedance shall be 20k ohm balanced, 10k ohm unbalanced. Output impedance shall be 200 ohm servo-balanced. Inputs and outputs shall be active (transformerless) balanced type on XLR, 1/4" phone jacks, and Euroblock connectors. Individual filters shall be Wein-bridge type and connected in a summing circuit optimized for minimum filter interaction and constant bandwidth at any slider setting. Boost and cut characteristics shall be fully symmetrical, with the filter being electrically removed from the circuit in the center (flat) position. Individual filters shall be accurate to within 3% of indicated center frequency and shall be non-adjustable to insure long term accuracy. The equalizer shall also include an 18dB per octave high pass filter tunable from 14Hz to 280Hz, equipped with a bypass switch. A 10-position, 2-color LED level meter shall be employed to show overall output level and LED indicators shall show overload conditions. Input gain shall be adjustable from -infinity to +6dB, and an overall EQ bypass switch shall be included. The equalizer shall weigh 13lbs net and mount in a standard 19" rack using 3 spaces (5.25" high). The power requirement shall be 100-240VAC, 50-60Hz, 24W.

The unit shall be an Ashly Audio **GQX-3102**.

