

ARCHITECTS SPECIFICATIONS

GQX-3102

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 $+23\text{dBu}$. Frequency response shall be $\pm .25\text{dB}$ 20Hz to 20kHz. Hum and noise shall be at least -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 both 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 over $-\infty$ to $+6\text{dB}$, 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.

Features:

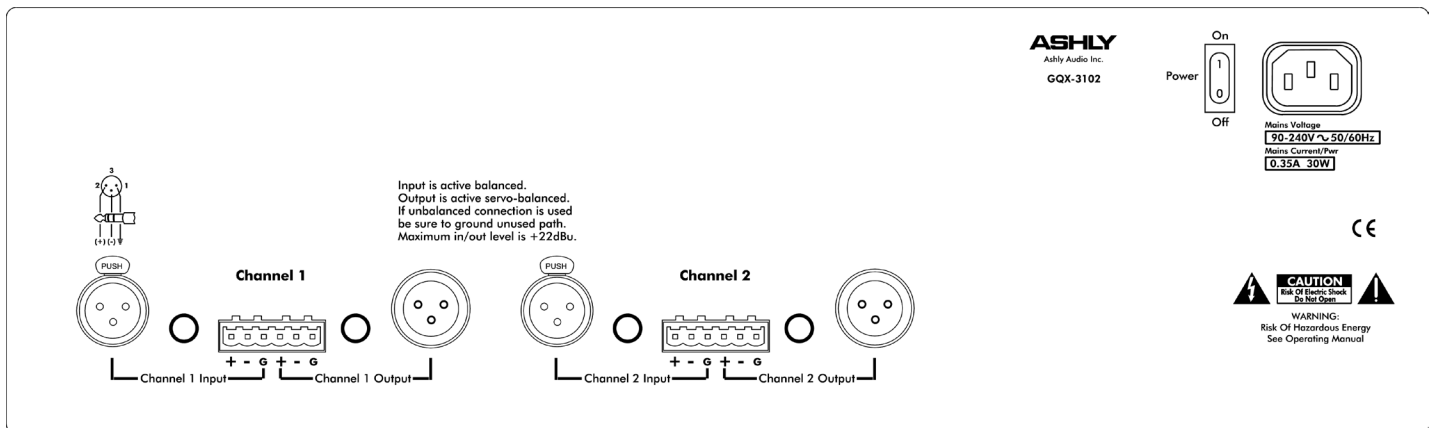
- Detented Metal-Shaft Fader
- Precision Wein-bridge Filters for Accurate Response and Low Distortion
- Constant "Q" Design with Low Ripple and Accurate Response Near the "Flat" Setting
- Selectable 15dB or 6dB range
- Switchable-Tunable Low-Cut Filter
- 10 Position, 2 Color LED Level Meter plus Peak LED Indicators
- Balanced XLR, 1/4", and Euroblock Connectors
- Servo-Balanced Outputs
- Rider Friendly
- Safety/Compliance: cTUVus/CE, RoHS
- 5-Year Worry-Free Warranty

Specifications GQX-3102

Input Type	Active Balanced
Impedance	20K Ω
Max Level	+23dBu
Connectors	1/4" Phone Jack (TRS), XLR, Euroblock
Output Type	Servo-Balanced
Source Impedance	100 Ω
Min Load Impedance	600 Ω
Max Level	+23 dBu
Connectors	1/4" Phone Jack (TRS), XLR, Euroblock
Overall Frequency Response	20 Hz - 20 kHz \pm 0.25 dB
THD	<.01%@+20dBu
IM Distortion (SMPTE)	<.01%@+20dBu
Output Hum & Noise (unweighted)	-93dBu
Channel Separation	>95dB @ 1Khz
Gain Control	$-\infty$ to +6dB
Filters Type	Constant Q/Wein Bridge
Number	2x31
Bandwidth	1/3 Octave
Tolerance	\pm 3%
Range	\pm 15 dB (switchable)
Subsonic Filter	12dB/Octave @ 14-280Hz
Power Requirements Nominal Voltage	100-240 VAC (50-60 Hz)
Power	24W
Physical Shipping Weight	17 lbs
Dimensions	19"Lx5.25"Hx8"D

Notes: 1. 0 dBu = .775 Vrms. 2. Servo-balanced output provides same level signal to either balanced or unbalanced termination.

Rear Panel GQX-3102



Applications:

Churches, Studios, Concerts, Dance/Night Clubs, PA Systems, Monitor Racks, Auditoriums, Lecture Halls, Sports Stadiums, Outdoor Festivals

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