

DSP / Matrix Processor

Model List

- EQ 231 | Advanced Analog 31-Band Dual Channel Equalizer
- EQ 131 | Advanced Digital 31-Band Dual Channel Equalizer

Product Introduction

The EQ 231 is an analog equalizer featuring TRS or XLR differential balancing input and output, with the option for stereo or subwoofer synthesis by adding left and right channels. Both channels have a x10 range selection switch and a 40Hz high pass filter. Each output includes a phase reversal switch. The device offers independent adjustment of average output power across all frequency bands and employs a 24dB/Linkwitz Reiley filter. It includes a stereo/mono status indicator LED to display the selected working mode.

The EQ 131, featuring advanced 31 bands DSP digital processor technology, excels in high-quality audio input and output processing, significantly outperforming traditional manually adjustable equalizers. Ideal for professional settings such as radio stations, recording studios, and home theaters, this unit boasts a sleek 1U standard slim rack design. It offers dual-channel synchronous control with precise 31-band EQ equalization and LED spectrum indicators, ensuring clear pitch visualization during use. The EQ 131's standout feature is its real-time 31-band frequency point hopping, achieving 99% spectral accuracy. This, coupled with an efficient noise gate for superior noise reduction and various input/output like TRS/RCA XLR balanced interface, makes it a robust tool for audio enhancement. The device also includes an EQ bypass option, can store up to 10 user-defined modes, and is powered by a 220V supply.

Key Features

- EQ 231: Analog equalizer with TRS and XLR differential balancing input and output.
- Supports stereo or subwoofer synthesis by adding left and right channels.
- Dual channels with x10 range selection switch and 40Hz high pass filter.
- Phase reversal switch for each output and 24dB/Linkwitz Reiley filter.
- Stereo/mono status indicator LED for real-time working mode visualization.
- EQ 131: Digital equalizer with 31-band DSP processor and LED spectrum indicators.
- Real-time 31-band frequency point hopping with 99% spectral accuracy.
- Dual-channel synchronous control with noise gate for signal noise reduction.
- Stores up to 10 user-defined modes with EQ bypass option.
- Input/output interfaces include TRS, RCA, and XLR balanced connections.



EQ 231



EQ 131

Technical Specification

	EQ 231	EQ 131
Type	Analog Equalizer	Digital Equalizer
Input/Output Interface	TRS, XLR	TRS, RCA, XLR
Channels	Stereo/Subwoofer Synthesis	Dual Channel Synchronous Control
Frequency Bands	2x31 bands 1/3rd Octave	2x31 bands 1/3rd Octave
High Pass Filter	40Hz	N/A
Phase Reversal Switch	Yes	N/A
Filter Type	24dB/Linkwitz Reiley	24dB/Linkwitz Reiley
Status Indicator	Stereo/Mono LED	LED Spectrum Indicator
Input Impedance	20k Ω Unbalanced, 40k Ω Balanced	15k Ω (Line)
Output Impedance	330 Ω Typical	300 Ω (Line)
Frequency Response	20Hz~200kHz, +/- 1dB	20Hz~200kHz
Signal to Noise Ratio	102 dB	82dB
Harmonic Distortion	<0.005%	N/A
Channel Isolation	>50dB	N/A
Adjustment Range	+/-12 dB	N/A
Maximum Output Level	+21 dB	N/A
Power Supply	100 ~ 120/60Hz or 200 ~ 240/50Hz	100 ~ 120/60Hz or 200 ~ 240/50Hz
Power Consumption	N/A	30W
Special Features	N/A	99% Spectral Accuracy, Noise Gate
Dimensions (W x H x D)	482 x 150 x 132 mm	482 x 45 x 132 mm
Weight	2.8 kg	3 kg