

PRODUCT OVERVIEW

The EQ231S is a dual 31 band 1/3 Octave Graphic Equaliser featuring input Gain control and switchable Low Cut filter. A unique feature of the EQ231S is a fader for compensating for Adiabatic Absorption Compensation (AAC control). The AAC control allows the engineer to compensate with one fader for variations in high frequency response caused by the build up of humidity between the beginning and the end of a show.

The EQ231S also features a 4th order low cut filter which is switchable between 16Hz and 32Hz for protecting loudspeakers from high energy subsonic frequencies.

The band pass filters are designed around ultra low noise, high output devices for maximum dynamic range performance. Centre detented faders provide up to 12dB of cut and boost at 31 ISO frequencies covering the entire audio spectrum (20Hz-20kHz).

Power relays ensure silent power on/off with automatic bypassing of the unit when switched off. Inputs and outputs are electronically balanced.

All switches are indicated with status LED's. Each channel incorporates a clip LED and may be individually bypassed.

The EQ231S is built in accordance with Electro-Magnetic Compatibility (EMC) and Low Voltage Directive (LVD) regulations encompassed within the European 'CE' mark.

SPECIFICATIONS

ELECTRICAL

Frequency response: 20Hz to 20kHz (+0, -1dB)
 Input impedance: 20k balanced
 Output Impedance: 100R balanced
 Output load impedance: > 600R
 Maximum Output Level: +20dBu, 600R load, 1kHz

Signal to Noise Ratio: > 96dB, +4dBu output
 THD: < 0.003% (600R load, 1kHz, +4dBu)

Centre Frequencies (Hz): 20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k.

Peak Indicator: 2dB before clipping
 Hi Pass Filter: 16Hz or 32Hz switchable

Power Requirement: 15VA, 115/230V AC, 50/60Hz

PHYSICAL

Input Connectors: XLR 3 Pin (Pin 2 hot)
 Output Connectors: XLR 3 Pin (Pin 2 hot)
 Power Connection: Detachable lead. IEC 3 pin socket

Dimensions (mm): 483 (19") W
 275 (10.8") D
 88 (3.5") H

Weight: 5.4kg, 12lbs
 Shipping Weight: 6.8kg, 15lbs

Temperature Range: Operating: 0°C to 50°C
 Storage: -30°C to 75°C

In keeping with our policy of continuous improvement LA Audio reserves the right to alter specifications without prior notice. Manufactured in the UK by LA Audio, 6-24 Southgate Road, London, N1 3JJ.

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ARCHITECTS & ENGINEERS SPECIFICATIONS

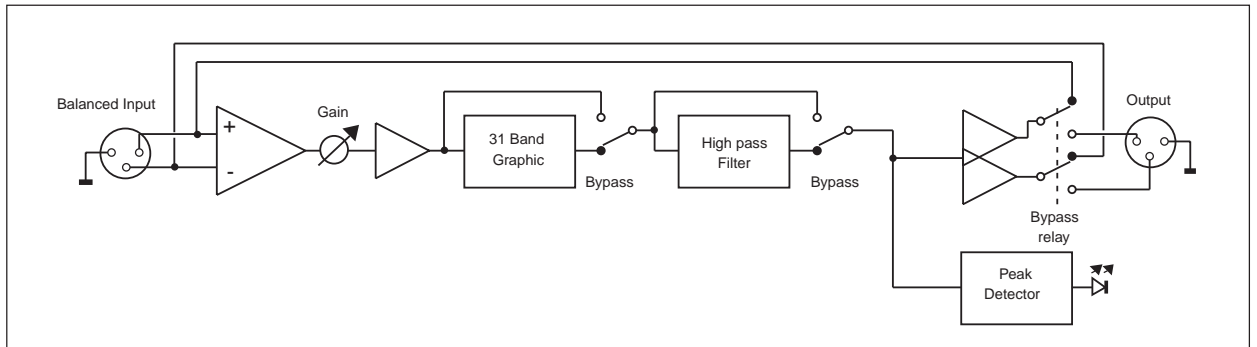
The Equaliser shall be a dual 31 band 1/3 Octave Graphic Equaliser with switchable 16Hz/32Hz High Pass Filter, variable input level control and Peak LED indicator. The Equaliser shall feature Adiabatic Absorption Compensation, allowing single fader adjustment of high frequency filters to compensate for changes in high frequency absorption due to humidity build up. The Equaliser shall provide 12 dB of cut and boost at 31 ISO centre frequencies between 20Hz and 20kHz.

The Equaliser shall be fitted with relays to allow soft power on/off and automatic bypassing when the unit is switched off. Inputs and outputs shall be electronically balanced on XLR connectors. All switches shall be marked with status LEDs.

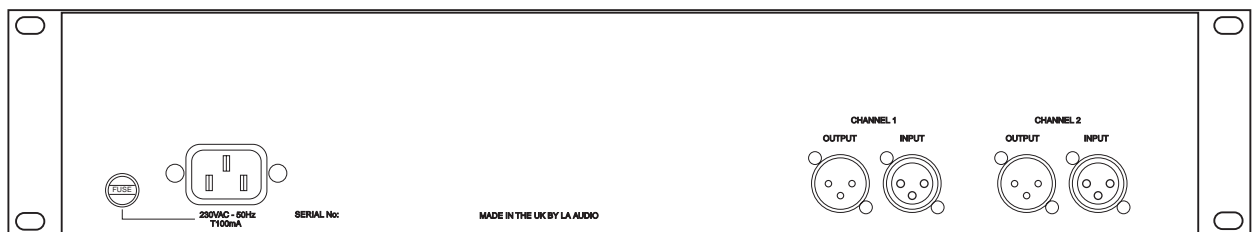
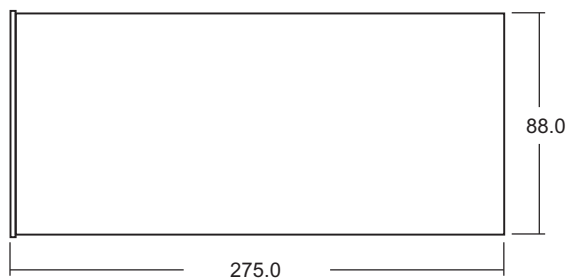
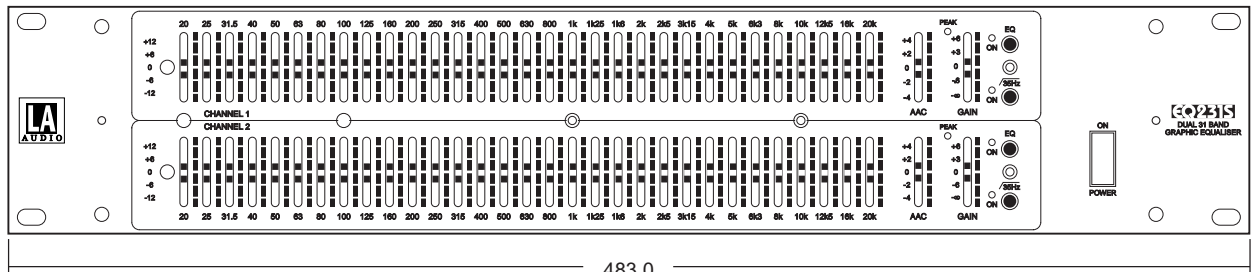
The Equaliser shall be built in accordance with the directives encompassed within the 'CE' regulations and so marked.

The Equaliser shall be an LA Audio EQ231S

BLOCK DIAGRAM



DIMENSIONS



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