



Description

The QLM-Series are powerful DSP based loudspeaker management systems, ideally suited for install and rental application, where outstanding sound quality and a remote control software with extensive functions is needed.

The QLM-Series has two devices with 2 In - 4 Out channels and 4 In - 8 Out channels.

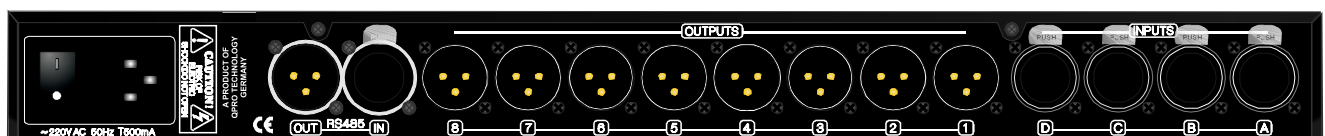
Each output has a gain control, variable delay, highpass and lowpass crossover filters, seven band multi-type filters, polarity, input signal source and limiter. The crossover filters offer slopes of up to 48dB/Octave.

Each input has a gain control, variable delay, multi-type filters. Filter types included parametric equalisation, high & low shelving, notch, band-pass, all-pass, variableQ highpass & lowpass.

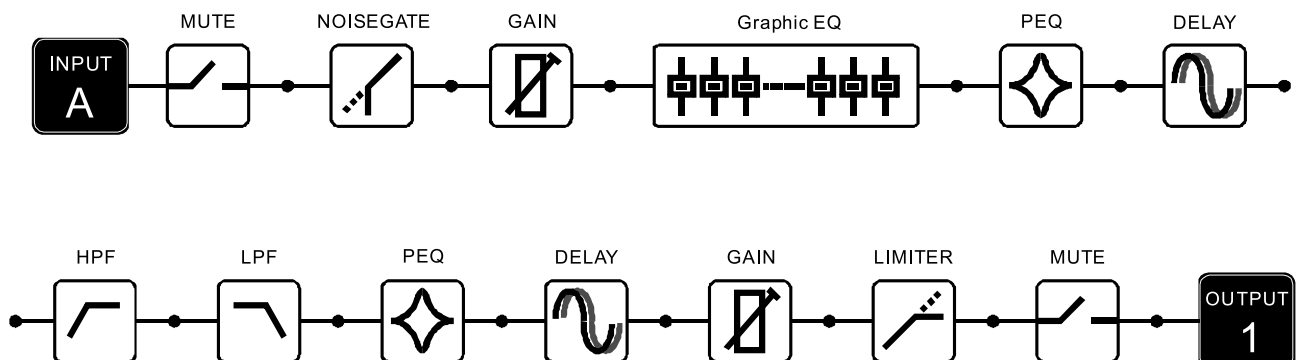
The internal structure allows completely flexible routing of any output from any combination of inputs.

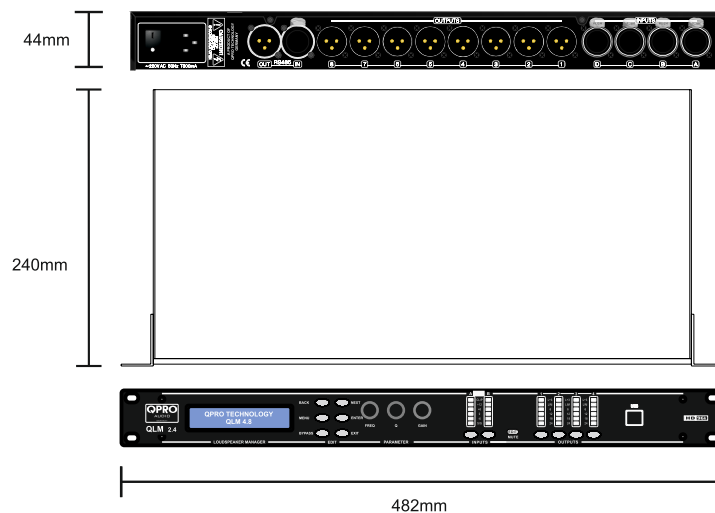
Beside the normal possibility to store and load a preset, the QLM-Series also provides a unique storage function where it is possible to store and load single speakers. This allows to combine any speaker from our Qpro database together. For remote control the QLM-Series provide a USB, and RS 485 port.

Security lock is available for each parts.



Signal flow





Technical Data

Inputs: 2/4 electronically balanced.

Impedance: > 10k ohms.

CMRR: > 75dB 50Hz ~ 10kHz.

Outputs: 4/8 electronically balanced.

Source Imp: < 60ohms

Min. Load: 600ohm

Max. Level: +20dBu

Digital Audio Sample Rate: 96kHz

Frequency Response: +/- 0.5dB, 20Hz ~ 20kHz

Distortion: < 0.004% @1kHz, +15dBu

ADC Dynamic Range: > 114dB, 20Hz ~ 20kHz (A-Weight)

DAC Dynamic Range: > 114dB, 20Hz ~ 20kHz (A-Weight)

Latency: 0.66mS

Delay: 1500mS(Input), 1500mS(Output)

Min Step Size: 0.010mS(4mm)

Input Gain: -40dB to +6dB in 0.1dB steps

Output Gain: -40dB to +15dB in 0.1dB steps

Parametric Filters:

10 per Input, 10 per Output.

Freq. Range: 20Hz ~ 20kHz, 1/36 Octave steps.

Filter Q/BW: 0.4 to 128.

Filter Type: Parametric Equaliser, HiShelf, LoShelf, Lowpass
Variable Q Highpass, Bandpass, Notch, Allpass.

High and Lowpass Filters

Freq. Range: 20Hz ~ 20kHz, 1/36 Octave steps.

Slope: 6/12/18/24/36/48 dB/Octave.

Type: Butterworth, Linkwitz-Riley, Bessel.

Limiters

Threshold: -20 ~ +20dB, 1dB steps.

Attack time: 1 ~ 100mS.

Release time: 0.1 ~ 2.0 second.

Display: 2x20 Character LCD

Remote

USB / RS 485

Power: IEC

Main Voltage: ~220V @50/60Hz

Power Consumption: < 20 watts

Weight: 3.3kg. Net (4.5kg. Shipping)

Size: 1.75"(1U) x 19" x 9.4" (44 x 482 x 240 mm)

Remote Software

