

meyer & QSC

tel: 01483 797242 fax: 01483 797256
email: chappie@soundbydesign.net



Meyer LD-3: Compensating Line Driver



Once a challenging part of line array system design, environmental conditions are just another part of the mix with the eight-channel LD-3 line driver - a powerful new tool from Meyer Sound for optimizing large-scale sound reinforcement systems by correcting frequency response for the attenuation of sound in air.



Feed the day's weather report into the LD-3 through its Temperature, Altitude and Relative Humidity knobs, dial-in the type of loudspeakers and distance of the throw for each section of the array, and the LD-3 goes to work. A RISC microcontroller retrieves response correction coefficients and corrects the output to compensate for the weather.

By utilizing multiple-variable atmospheric loss equations and pre-calculated MAPP Online stored values, the LD-3 delivers results quickly and efficiently. Its high-quality, digitally controlled analogue filters provide the best of both worlds: the low latency and wide dynamic range of analogue and the nimble, precise, repeatable results of digital. The LD-3 corrects frequency response up to 16 kHz at a resolution down to 1 dB.

Each of the LD-3's two channels consists of a master input section, a dedicated subwoofer output, and three outputs to control the array. Three sends and four returns provide the control you need, via insert switches, to route the signal and incorporate additional signal processing, such as parametric equalization.

The master input section provides individual channel gain adjustment from -12 to +6 dB, mute, signal/clip/mute indicators, and a switchable high-pass filter (0, 80, or 160 Hz) for boundary correction or optimizing crossover to subwoofers. Master environmental controls include temperature (0° to 45° C), altitude (switchable in three ranges: 0-800, 800-2200, and 2200+ m) and relative humidity (10 to 100%).

Individual outputs provide gain trim from -6 to +6 dB (-6 to -3 and +3 to +6 settings not recommended to preserve array behaviour), signal/clip/mute indicators, send/return insert switches, and distance controls to define the throw from each sound system branch to its audience coverage area up to 150 meters (492 feet).

The LD-3's dedicated subwoofer control sections feature polarity switches, gain trim from -6 to +6 dB, mute, signal/clip/mute indicators, and send/return insert switches.

HIRE RATE: £30 PER DAY

QSC RMX850 Power Amplifier

Features

- Professional quality performance - incorporates road-proven QSC designs
- High-current toroidal transformers for greater two-ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- Selectable low-frequency filters (30 Hz or 50 Hz) protect speakers and increase headroom
- Balanced 1/4" (6.3mm) TRS, XLR, and barrier strip inputs
- Binding post and Neutrik Speakon outputs
- Front Mounted gain controls for easy access
- Signal and clip LED indicators to monitor performance
- Independent DC & thermal overload protection automatically protects amplifier and speakers
- **Output Power:** 8 Ohm: 2 x 200 W, 4 Ohm: 2 x 300 W, 2 Ohm: 2 x 430 W, Bridged 4 Ohm: 830 W

Input Filter:

Boosts the system's response by matching the amplifier's range to your speakers. Prevents speaker bottoming and low-frequency muddiness. Each channel is separately adjustable: 50Hz for most compact full-range speakers; 30Hz for subwoofers and large full range systems; and OFF for studio monitoring.

Clip Limiter:

When the RMX is pushed hard, the clip limiter automatically finds the exact point of overload and keeps the amplifier in its "Peak Zone" preventing severe distortion without reducing performance. The low frequency filter and clip limiter are separately adjustable for each channel.

Variable Speed Fan:

Rear-to-front air flow keeps amps and racks cool.

QSC™



HIRE RATE: £14 PER DAY

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