



PLM 10000Q



PLM 10000Q Powered Loudspeaker Management system

The two- input, four- output PLM 10000Q seamlessly integrates networked digital signal distribution, drive processing, power amplification, and load verification plus performance monitoring in a single hardware unit and unified software controller. This new approach,

designated Powered Loudspeaker Management (PLM), is a cohesive blend of Lake® Processing and Lab.gruppen power. As a complete system, the PLM 10000Q affords significant benefits when compared to conventional approaches utilizing separate components.

Lab.gruppen Technology

- ▶ 2350 W per channel @ 2 ohms**
- ▶ 2300 W per channel @ 4 ohms**
- ▶ 2U chassis weighing only 13.5 kg (30 lbs)
- ▶ Class TD® output stage
- ▶ Regulated Switch Mode Power Supply (R.SMPS™)
- ▶ Copper-finned Intercooler® with transverse-mounted output devices
- ▶ Full suite of protection and fault monitoring features
- ▶ Comprehensive loudspeaker preset database
- ▶ LoadLibrary™ load "Fingerprint" (identity and characteristics) data
- ▶ Comprehensive LoadSmart™ load verification and SpeakerSafe™ continuous loudspeaker performance monitoring
- ▶ Dante™ low-latency digital network included as standard
- ▶ Fully compatible with Dolby Lake Processor, Lake Contour™, and Lake Mesa Quad EQ™ and Mesa Parametric EQ™ devices
- ▶ Primary and secondary network connections (for daisy chaining or system redundancy)
- ▶ Digitally controlled "amplifier gain" adjustable in 0.1 dB steps from 22 to 44 dB
- ▶ Digital output attenuation in 0.25 dB steps from -inf to 0 dB
- ▶ Binding post or Neutrik® Speakon® (1 x NLT8, 2 x NLT4) power output connectors
- ▶ Digitally implemented, zero-overshoot Inter-Sample Voltage Peak Limiting (ISVPL™) adjustable in 0.1 V steps from 17.8 to 153 V
- ▶ Power Average Limiter (PAL)
- ▶ High-brightness front-panel LCD display
- ▶ Moisture resistant silicone touchpad for front-panel display mode selection and menu navigation

** More power available when driven asymmetrically.

Lake Processing Technology



- ▶ Raised Cosine Equalization™
- ▶ Linear phase and classical crossovers
- ▶ LimiterMax™ – peak and RMS limiters
- ▶ Iso-Float™ ground isolation
- ▶ Super Module capability
- ▶ Integration of third party frequency measurement and analysis system via the Lake Analyzer Bridge
- ▶ Analog and AES digital inputs with loop-thru outputs
- ▶ Auto-select input router for all inputs with user definable priorities