

PRELIMINARY ENGINEERING INFORMATION

The LMS-D6 digital loudspeaker management system boasts superb audio quality and is designed for use with Turbosound Flashlight®, QLight™, HiLight™ series enclosures and TFM series floor monitors.

It consists of two inputs and 6 outputs configurable for many different active system applications in a very compact 1U 19" rack mount package. Both inputs are electronically balanced, and feature delay and gain control. All outputs are also electronically balanced to avoid hum loops.

The high resolution backlit LCD display screen gives an overview of all system functions, while the menu items such as the pre-loaded programs for Turbosound loudspeaker systems are easily selectable via push buttons or rotary control. In addition to the factory pre-set memories, a further 9 user-programmable volatile memories are provided in order to allow even greater system flexibility.

High performance limiters are provided on each output with variable attack and release times enabling both concert touring and

permanently installed sound systems to be operated with optimum dynamic range and total reliability. Delays of up to 650ms can be set up on each output with ultra-fine resolution of 2.6µs steps to ensure perfect driver time alignment.

The LMS-D6 is equipped with a unique switching power supply that automatically adjusts to mains input voltages from 90 volts to 250 volts, allowing it be used anywhere in the world without inconvenient mains transformer adjustment.

Variable high pass and low pass output filters can be selected for 12, 18 or 24dB/octave slopes, and a choice of Bessel, Butterworth or Linkwitz-Riley responses. Asymmetrical crossover functions are easily achievable through independent control of the high pass and low pass filters.

Recommended complementary products:
Flashlight®, QLight™, HiLight™ and TCS series enclosures
TFM series floor monitors



FEATURES

- Superior audio quality
- Switching power supply
- High performance limiters
- Electronically balanced
- Factory pre-set programs
- Compact 1U rack package

APPLICATIONS

- Concert touring
- Permanent installations
- Floor monitoring

INPUTS	Two electronically balanced
INPUT IMPEDANCE	>10k ohms
CMRR	>65dB 50 Hz - 10kHz
OUTPUTS	Six electronically balanced
SOURCE IMPEDANCE	<60 ohms
MINIMUM LOAD	600 ohm
MAXIMUM LEVEL	+20dBm into 600 ohm load
FREQUENCY RESPONSE	±0.5dB 20Hz - 20kHz
DYNAMIC RANGE	>110dB 20Hz - 20kHz Unwtd.
DISTORTION	<0.02% @ 1kHz, + 18dBm
MAXIMUM DELAY	650 mS (Increment 2.6µS)
OUTPUT GAIN	adjustable +15dB to -40dB in 0.1dB steps and mute
INPUT GAIN	adjustable +6dB to -40dB in 0.1dB steps
FILTERS	5 sections per output
FILTER GAIN	+15dB to -30dB in 0.1dB steps
CENTRE FREQUENCY	20Hz - 20kHz, 1/35 octave steps (368 positions)
FILTER Q / BW	0.4 to 128 / 2.5 to 0.008
SHELF GAINS	±15dB in 0.1dB steps
FILTERS	1 of each high pass and low pass per output
FREQUENCY (HPF)	10Hz - 16kHz, 1/36 octave steps
FREQUENCY (LPF)	35Hz - 22kHz, 1/36 octave steps
RESPONSE	Bessel / Butterworth 12/18/24dB per octave and Linkwitz-Riley 24dB per octave
THRESHOLD	+22dBu to =10dBu
ATTACK TIME	0.3 to 90 milliseconds
RELEASE TIME	2, 4, 8, 16 or 32 times the attack time
DISPLAY	2 x 20 character backlit LCD
INPUT METER	2 x 3 point, -24dB to digital clip
OUTPUT METER	6 x 3 point, -24dB to +1dB into limit
INPUTS	3 pin female XLR
OUTPUTS	3 pin male XLR
RS232	9 pin DEE connector
POWER	3 pin IEC
POWER	60 to 250V ±15% @ 50/60Hz
CONSUMPTION	<20 watts
NET WEIGHT	3.5kg
SIZE (H X W X D)	44mm x 482mm x 300mm (1.75" (1U) x 19" x 11.8") excluding connectors