

## 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

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