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Features

- Superior audio quality
- 96kHz DSP
- Switching power supply
- High performance limiters
- Electronically balanced
- Factory pre-set programs
- Compact 1U rack package

Applications

- Concert touring
- Floor monitoring
- Permanent installations

LMS-D26 digital loudspeaker management



The LMS-D26 digital loudspeaker management system is a compact and powerful DSP based 2-in 6-out audio processing unit, ideally suited to live sound and fixed installation applications, and designed for use with Turbosound loudspeakers and associated bass enclosures and subwoofers.

The LMS-D26 combines the functions of multiple conventional products in a compact 1U high, 19" high rack unit. It provides tailored equalisation and crossover functions specific to Turbosound Aspect series, QLight™ and HiLight systems, TCS and TFM series monitor enclosures. To achieve this, the LMS-D26 provides two inputs and six outputs, configured by factory presets, in addition to a total of 40 user-defined presets to enable use with a variety of loudspeakers.

High performance limiters, delays (up to 400ms input, 80ms output), equalisation, gain, polarity, and crossover filter controls are accessible to the user in order to match specific operating environments.

It provides exceptional audio quality through the use of carefully optimised processing and high performance converters for better than 111dB of dynamic range, 96kHz sampling rate and minimal filtering.

It employs audio-grade capacitors in the analogue signal path for true audiophile performance and superior accuracy. The LMS-D26 features LF shelving filters to allow adjustment of the response in order to match variations of the acoustic conditions such as half space environments like floor monitor applications, or for close coupling of loudspeaker arrays. Input delays of up to 400ms, and output delays of up to 80ms can be set up on each output (mono) or pair of outputs (stereo) with fine resolution of 21µs steps to ensure perfect driver alignment.

The LMS-D26 is designed for quick setup and adjustment via an easy-to-use menu structure accessed by front panel buttons and rotary encoders. A high resolution back-lit LCD display provides the user interface to the menu options and parameters being adjusted.

The LMS-D26 is equipped with a switching power supply that automatically adjusts to mains input voltages from 85 volts to 240 volts, allowing it be used anywhere in the world without inconvenient mains transformer adjustment.

Electronics

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LMS-D26 digital loudspeaker management

INPUTS	(2) electronically balanced
INPUT IMPEDANCE	>10k ohms
MAX INPUT LEVEL	+20dB
OUTPUTS	(6) electronically balanced
OUTPUT IMPEDANCE	<100 ohms, ground balanced
MAX OUTPUT LEVEL	+20dBu into a 600 ohm load
SAMPLE RATE	96kHz
FREQUENCY RESPONSE	10Hz - 40kHz \pm 1dB (filters disabled), 10Hz - 20kHz \pm 0.25dB (filters disabled)
DYNAMIC RANGE	>111dB (A weighted, 22kHz bandwidth), >108dB (un-weighted, 22kHz bandwidth)
THD	<0.01% (+10dBu, 20Hz - 20kHz, 30kHz bandwidth)
GAIN	+15dB - -30dB and mute, 0.2dB steps
OUTPUT CH SOURCE	Input A, Input B and SUM
HP FILTER FREQ	Off, 10Hz - 25.4kHz and off, 1/36 octave steps
LP FILTER FREQ	10Hz - 25.4kHz and off, 1/36 octave steps
HP/LP FILTER TYPE	12, 18 & 24dB/octave Bessel and Butterworth, 12dB, 24dB and 48dB/octave Linkwitz-Riley, 4th order & 8th order Hardman
MAXIMUM DELAY	Input 400ms, output 80ms
LIMITER	High performance limiter, adjustable threshold in 0.2dB steps, automatic time constants
EQ FREQUENCY	10Hz - 25kHz, 1/36 octave steps
EQ GAIN	+15dB - -15dB, 0.2dB steps
EQ WIDTH	5.0 - 0.1 octave bandwidth, 1/36 octave steps
AUTIO INPUTS	3-pin female XLR
AUDIO OUTPUTS	3-pin male XLR
SERIAL COMMS	9-pin female 'D' type
NETWORK COMMS	Future option on RJ45 (XLR chassis type)
POWER CONNECTOR	3-pin IEC
MAINS POWER	Universal switch-mode PSU, 85v - 240v AC, 50 - 60Hz
CONSUMPTION	<25 watts
SIZE (H X W X D)	44mm x 482mm x 254mm (1.75" (1U) x 19" x 10") excluding connectors
NET WEIGHT	2.7kg (5.9lbs)
MORE INFO	More information can be found on our website: www.turbosound.com

Limited Warranty

Every Turbosound loudspeaker product is warranted to the original end-user purchaser and all subsequent owners for a period of two (2) years for loudspeaker products, or one (1) year for electronics products, from the original date of purchase. Warranty coverage includes defects in materials and workmanship. It does not include:

- damage caused by accident, misuse, abuse, neglect or modification by any other person other than an authorised Turbosound representative,
- damage caused by overdriving, use with unsuitable amplifiers or amplifier failure,
- damage caused by failure to operate the product in accordance with the instructions contained in the user's manual,
- damage occurring during shipment in transit,
- claims based upon any misrepresentations by the seller,
- products which do not have the original components as specified in the product engineering information,
- products on which the serial number has been removed or defaced.

Should any fault develop with a component of your Turbosound system, please return the product, freight pre-paid, in its original packing carton, along with proof of purchase such as the original bill of sale, and a description of the suspected fault, to your local authorised Turbosound representative. The product serial number must be quoted in all correspondence relating to the claim. Insurance is recommended as Turbosound or its representatives are not liable for loss or damage in transit.