

DL 4.8

PROFESSIONAL DIGITAL
LOUDSPEAKER MANAGEMENT SYSTEM



Front View



Rear View

The DL 4.8 digital loudspeaker management is a powerful and easy-to-operate processor. It adopts a switching power supply design and can automatically adjust the external power input from 90V to 250V, making it applicable anywhere in the world without any adjustments. The digital signal processor uses a high-precision DSP chip with 64-bit internal data processing, featuring an extremely high dynamic range and excellent sound quality. It is a 4-in/8-out matrix processor with multi preset. Meanwhile, the signal source of each output channel can be freely selected. Each channel includes: gain, 10-Band parametric equalizer, crossover, delay, phase, and limiter.

There are 250 user storage modes in total, which can be controlled Ethernet LAN interface and dedicated software on a computer. It provides monitoring and permanent logging of key parameters such as temperature, signal level and gain reduction.

Key Features

4 inputs & 8 Outputs Digital Matrix Stage of the art Digital Processing

64-bit DSP Processing / 96 kHz sample rate

800 FIR taps per output

10-band parametric EQs for each input/output

Dual channel AES/EBU Input

Independent limiter for each output

Input and output monitoring (level, clip and limiter)

Ethernet LAN interface (Input at the back panel) 100 MB LAN with loop through

Security lock with password

Remote control software for PC Windows only

Memory storage for 250 presets



Technical Specifications

Input	4 Channel electronically balanced XLR + AES3 1 & 2 Phoenix Connector
Output	8 Channel electronically balanced XLR Connector
Input Level (Nominal/Max)	0 dBu / +24 dBu
Dynamic Range	>120 dB (20 Hz – 20 kHz) (A-Weighted)
Analog Converters	High Performance 24-bit
Display	2 x 20 Character Backlit LCD
Gain	+12 dB ≈ -40 dB, step 0.1 dB
Parametric Equalizer	10 bands on Inputs & Outputs
Frequency Response	20 Hz – 22 kHz (±0.2 dB)
Signal-to-Noise Ratio	110 dB typical (a weighted)
Distortion	<0.004% @1K; +4 dBu
Audio interface	XLR Connector / Phoenix Connector
Control Interface	Ethernet with Link Output
FIR Filters	800 FIR taps per output
Crossover Filter	2 Crossover Filter per Input/Output
Dial Encoder	Embedded Wheel on front panel
Working Power Supply	90~250V AC, 50/60Hz adaptive
Dimensions	485mm x 255mm x 44mm (H x W x D)
Weight	2.8 Kg

Safety Instructions

- When flying speakers, appropriate hardware and techniques must be employed for safely suspending the enclosures.
- All speaker hardware and flying apparatus must be regularly inspected for any visual or mechanical failure.
- Leave adequate distance between speakers and the audience. Refer to your local authority for Health and Safety guidance when using loudspeaker systems.
- The Louis Martin digital controller should only be programmed by an authorized technician. Do not use Louis loudspeaker systems without the correct controller and the program. If a system fails due to incorrect controller use, warranty is void.
- Protect your speakers and electronics from exposure to humidity, water or rain.
- The loudspeakers and electronics are covered against defects in workmanship or materials for a period of two years from the original date of purchase. The warranty does not cover any item which in Louis's opinion has failed due to user abuse, accident, modifications.
- The defective item will be repaired/replaced with no charge for materials or labour. However, the item should be adequately packed and dispatched, pre-paid, to a Louis authorized distributor/service