





APPLICATIONS

- Live sound loudspeaker management
- Active monitor systems
- Fixed applications

FUNCTIONAL FEATURES

- Professional 2-input, 6-output system processor
- Comprehensive processing options including EQ, Gate, Delay, Dynamic EO
- Fully assignable matrix routing of both inputs to any output
- IIR, FIR and Linear Phase crossover
- RMS and Peak limiter
- Freg/Phase system response measurement with PC and sound card
- Auto EQ routine using IIR, FIR, Linear phase filters and user target curve
- Signal generator Pink/white noise

- One press Mute buttons for all inputs and outputs
- Front panel control with LCD display with an intuitive menu
- Networking option using either Ethernet or RS 485 for larger systems
- Front panel USB port for quick and easy PC connection
- Output channel preset import function
- Six segment Led metering for input and output level and limiter operation
- 3-level customisable user modes with individual password protection
- 32 user Presets to store system configurations

DECRIPTION

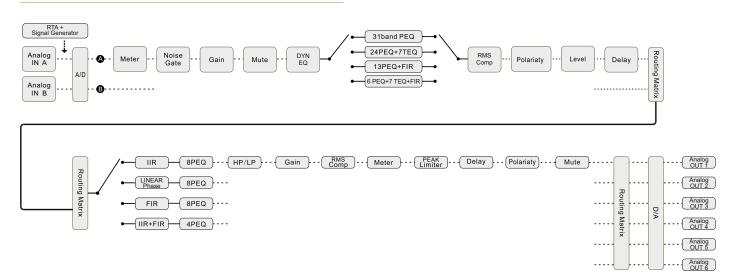
The DLM 260 is a DSP based 2 inputs x 6 output digital loudspeaker management processor, ideally suited for fixed installations and live events. It combines the functions of a multitude of conventional products in a compact 1 U unit with extensive PC remote control capabilities.

Routing is freely assignable from the two inputs to the six outputs. Input and output equalisation is available with a choice of 16 filter options. A total of 31 IIR EQ is available for each input, or 13 IIR EQ + FIR; eight IIR EQ for each output or four IIR EQ + FIR is also available. Many options for crossover type include IIR from 6 to 48dB/oct, FIR and Linear Phase with constant group Delay. Input and output delay is available to time align components in a system; RMS and peak limiters will protect your speakers from damage due to excessive power being applied.

On input paths, the processing chain sees in cascade: input gain / delay / noise gate / dynamic loudness / filtering section / RMS compressor. On output paths the processing chain sees in cascade: output gain / delay / polarity / filtering section / RMS compressor / peak limiter.

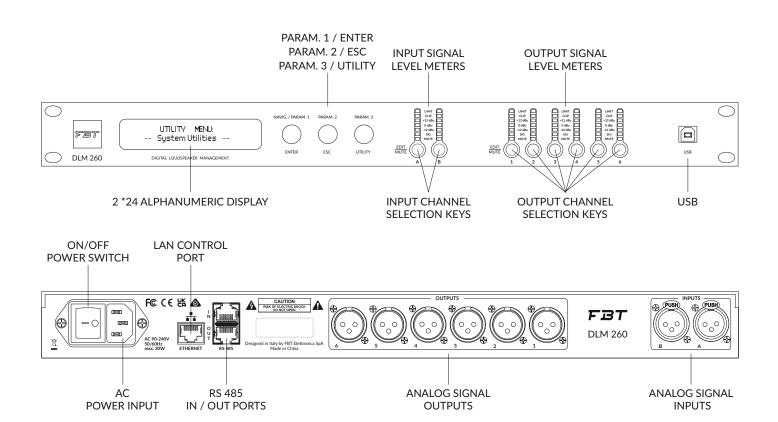
The processor features 32 user memory locations to store popular configurations and settings can be exported to a file via the dedicated PC application, either as a back-upor to store more favourite configurations if the 32 on-board presets are not sufficient. A very useful function is the ability to recall entire output channel configurations. PC connectivity is available via a front panel USB port but for larger systems with several processors can use Ethernet or RS 485 network connections.

OVERVIEW OF SIGNAL PROCESSING

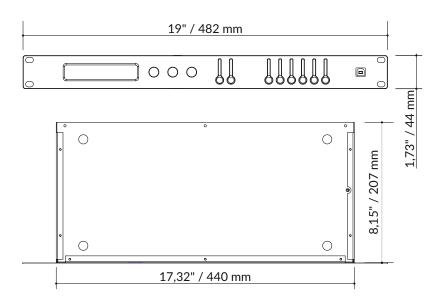




CONTROL & FUNCTIONS



DIMENSIONS





TECHNICAL SPECIFICATIONS

GENERAL	
Input Impedance	20K Ohm balanced
Output Impedance	100 Ohm
Max. Input Level	+20dBu
Max. Output Level	+18dBu
Crosstalk	< -95dB
Sample Rate	48kHz
Signal to Noise Ratio	> 116dB (A weighted)
Noise Floor	< -95dB (A weighted)
Common Mode Rejection Ratio	60dB
Frequency Response	20Hz - 20kHz +0.3dB
THD (+4dBu 1kHz)	< 0.003%
Mains Voltage Range	90 - 240Vac / 50-60Hz
Nominal Power Consumption	30W
CONNECTORS	
Audio Input	2 x 3 pin female XLR
Audio Output	6 x 3 pin male XLR
Ethernet	shielded RJ45, Dynamic or Static IP
RS485	2 x RJ45
USB	1 x USB "B"
Mains	3 pin IEC
PHYSICAL	
Height	1U (44mm) (1.75")
Width	482mm (19")
Depth	230mm (9.1")
Metala	2.01 (0.0.1h)

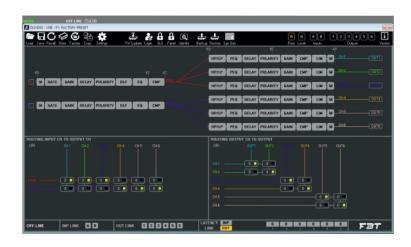
3.0kg (6.6 lb)

PROCESSING	
Signal Generator	White/Pink noise - Level range: -30dBu +10dBu
Input & Output Gain	-18dB +12dB, step 0.1dB
Noise Gate	Threshold: -80dBu -45dBu
	Attack time: 1ms 1000ms
	Release time: 1ms 1000ms
Dynamic Loudness Filter	Gain range: 0dB -10dB
	Attack speed: fast/medium/slow
Parametric EQ	Input channels up to 31 optional types of EQ
	Output channels up to 8 optional types of EQ
Optional Filter types	Bell classic and constant Q filter, 1st order high Shelf filter, 2nd order high Shelf filter, Variable Q high Shelf filter,
	1st order low Shelf filter, 2nd order low Shelf filter, Variable
	Q low Shelf filter, 1st order low-pass filter, 2nd order
	low-pass filter, Variable Q low-pass filter, 1st order high-pass
	filter, 2nd order high-pass filter, Variable Q high-pass filter,
	Band pass filter, notch filter, 1st order all-pass filter,
	2nd order all-pass filter with variable Q value
Center Frequency	Adjustable within the frequency range of 20Hz-20kHz with
' '	a step accuracy of 1Hz
Q value / Bandwidth	The Q value range of Bell filter is 0.4 - 128, the step is 0.01,
	the range of the Q value of the Chevron/highpass/lowpass
	filter is 0.1 - 5.1 and the step is 0.01, the value range of
	bandpass /notch filter Q is 4 - 104 and step is 1
EQ Gain range	-15dB +15dB
IIR Crossover Filter	Butterworth slope: 6/12/18/24/36/48dB per octave, Bessel
	slope: 12/24dB per octave, Linkwitz-Riley slope:
	12/24/36/48dB per octave
Linear Phase Filter	Linkwitz-Riley: 24/48dB per octave
FIR Crossover Filter	Type: high pass/low pass/band pass/external import Taps
	range: 256 - 512, slope range 21 - 120dB per octave Time
	window type: Rect/Sinc/Keiser/Hanning/Hamming/Blackmar
D110 0	Blackman-Harris/Blackman-Nuttal/Nuttal/Keiser-Bessel/Sine
RMS Compressor	Starting threshold range: -10dBu +20dBu
	Compression ratio range: 2 32:1
	Soft and hard knee: 0 - 100%
	Attack time: 0.1ms - 1000ms
	Release time: 10ms - 15000ms
Peak Limiter	Gain compensation: Max 12dB
Peak Limiter	Threshold range: -10dBu +20dBu
	Attack time: 1ms - 1000ms
Dolov	Release time: 10ms - 3000ms
Delay	The adjustable delay time of each input channel + output channel is 452ms, step accuracy 0.0104ms
FIR Filter	Fach input channel and output channel can import FIR

FIR Filter

SOFTWARE MAIN INTERFACE

Depth Weight



Each input channel and output channel can import FIR filter with 48kHz sampling rate and 512 taps