

DXI.5

Loudspeaker management system

PRELIMINARY
INFORMATION

electronics

features

- ▶ 2 input 6 output loudspeaker management
- ▶ Flexible routing matrix
- ▶ 9 full bandwidth parametric bands on every output
- ▶ Bessel, Butterworth and Linkwitz-Riley crossover filters
- ▶ Gain delay and limiter functions
- ▶ 2 x 24 character LCD display

applications

- ▶ Live sound loudspeaker management
- ▶ Theatres
- ▶ Clubs
- ▶ Bars

The DXI.5 is a 2 input 6 output digital loudspeaker management system for use in both live applications and fixed installations. Based on a processing platform running at 96kHz the DXI.5 offers unrivalled performance and flexibility.

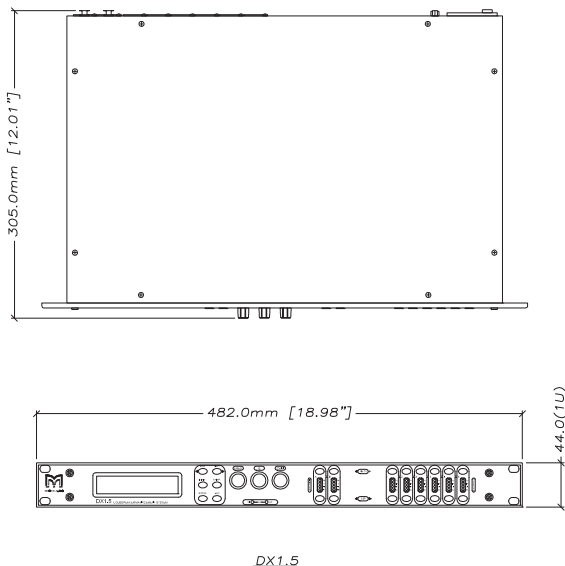
The DXI.5 has standard routing matrix configurations, such as 2 x 3-way, as well as flexible routing allowing any output to be fed from any input or sum of inputs. Each output consists of a high and low filter, 9 bands of parametric equalisation, limiter, delay (adjustable in 0.3µs steps), gain and polarity.



technical specifications

INPUTS	2 electronically balanced
IMPEDANCE	> 10k ohms analogue
CMMR	> 65dB 50Hz - 10kHz
OUTPUTS	6 electronically balanced
SOURCE IMP	< 60 ohms analogue
MIN LOAD	600 ohms analogue
MAX LEVEL	+20dBm into 600 ohm
FREQUENCY RESPONSE	20Hz-20kHz ± 0.5dB, -3dB @ 32kHz
DYNAMIC RANGE	> 116dB 20Hz-20kHz unweighted
DISTORTION	< 0.02% @ 1kHz, +18dBm
MAXIMUM DELAY	650ms (Increment 0.3µs)
INPUT GAIN	+6dB to -40dB in 0.1dB steps
OUTPUT GAIN	+15dB to -40dB in 0.1dB steps plus mute
PARAMETRIC EQUALISATION	
FILTERS	8 per input / 9 per output
FILTER GAIN	+15dB to -30dB in 0.1dB steps
FREQUENCY RANGE	19.7Hz – 32kHz, 1/36 octave steps
FILTER Q / BW	0.4 to 128 / 2.5 to 0.008
Sections switched to shelving response:	
LOW FREQUENCY	19.2Hz – 1kHz
HIGH FREQUENCY	1kHz – 32kHz
SHELF GAINS	± 15dB in 0.1dB steps
HIGH AND LOWPASS FILTERS	
FILTERS	1 of each per output
FREQUENCY RANGE (HPF)	10Hz – 16kHz, 1/36 octave steps
FREQUENCY RANGE (LPF)	35Hz – 22kHz, 1/36 octave steps
RESPONSES	
1ST ORDER	6dB/Oct
BESSEL/BUTTERWORTH/ LINKWITZ-RILEY	12, 24 and 48dB/Oct
BESSEL/BUTTERWORTH	18dB/Oct
LIMITERS	
THRESHOLD	+22dBu to -10dBu
ATTACK TIME	0.3ms to 90ms
RELEASE TIME	2/4/8/16/32 x Attack time
DISPLAY	2 x 24 character blue LCD
INPUT METER	2 x 4 point, -24dB to digital clip
OUTPUT METER	6 x 4 point, -24dB to +4dB into limit
CONNECTORS	
INPUTS	3 pin female XLR
OUTPUTS	3 pin male XLR
EXTERNAL	9 pin D-type connector (RS232)
POWER	3 pin IEC
POWER	60V to 250V ± 15% @ 50/60Hz
CONSUMPTION	< 30 watts
LATENCY	1.5ms (analogue in – analogue out @ 96Hz)
DIMENSIONS	
(W)	482mm x (H) 44mm x (D) 300mm
(W)	19ins x (H) 1.75ins (1U) x (D) 11.8ins
WEIGHT	3.3kg (7.3lbs)

overall dimensions



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