

DXI

Loudspeaker management system

features

- ▶ Comprehensive specification as standard
- ▶ Superb audio quality with full > 110dB dynamic range
- ▶ 2 input, 6 output multi-mode format
- ▶ 6 x 5 band parametric EQ sections
- ▶ RS232 interface for factory preset updates via PC



applications

- ▶ Ideal for live and fixed installation loudspeaker management
- ▶ Provides powerful DSP based audio processing
- ▶ Fully configurable as electronic crossover system

The DXI is a compact, powerful DSP based audio processing unit, ideally suited for live applications and fixed installations.

The unit has 2 inputs and 6 outputs, configurable in 5 basic modes (2x2 way, 2x3 way, 4 way, 5 way and 6 way crossover). Each input has adjustable gain and delay. Each output consists of a high and low pass filter, 5 bands of parametric equalisation, limiter, delay (adjustable in 2.6 μ s steps), gain and polarity controls.

Standard specification includes a maximum of 80 factory presets, 19 user memories and a multi level security 'lock out' function for all controls. An RS232 interface enables factory presets to be easily updated by downloading the current file via a PC.

The DXI is supplied pre-loaded with common configurations for all current Martin Audio products which benefit from use of a system controller. It is also fully configurable for use as an electronic crossover system.

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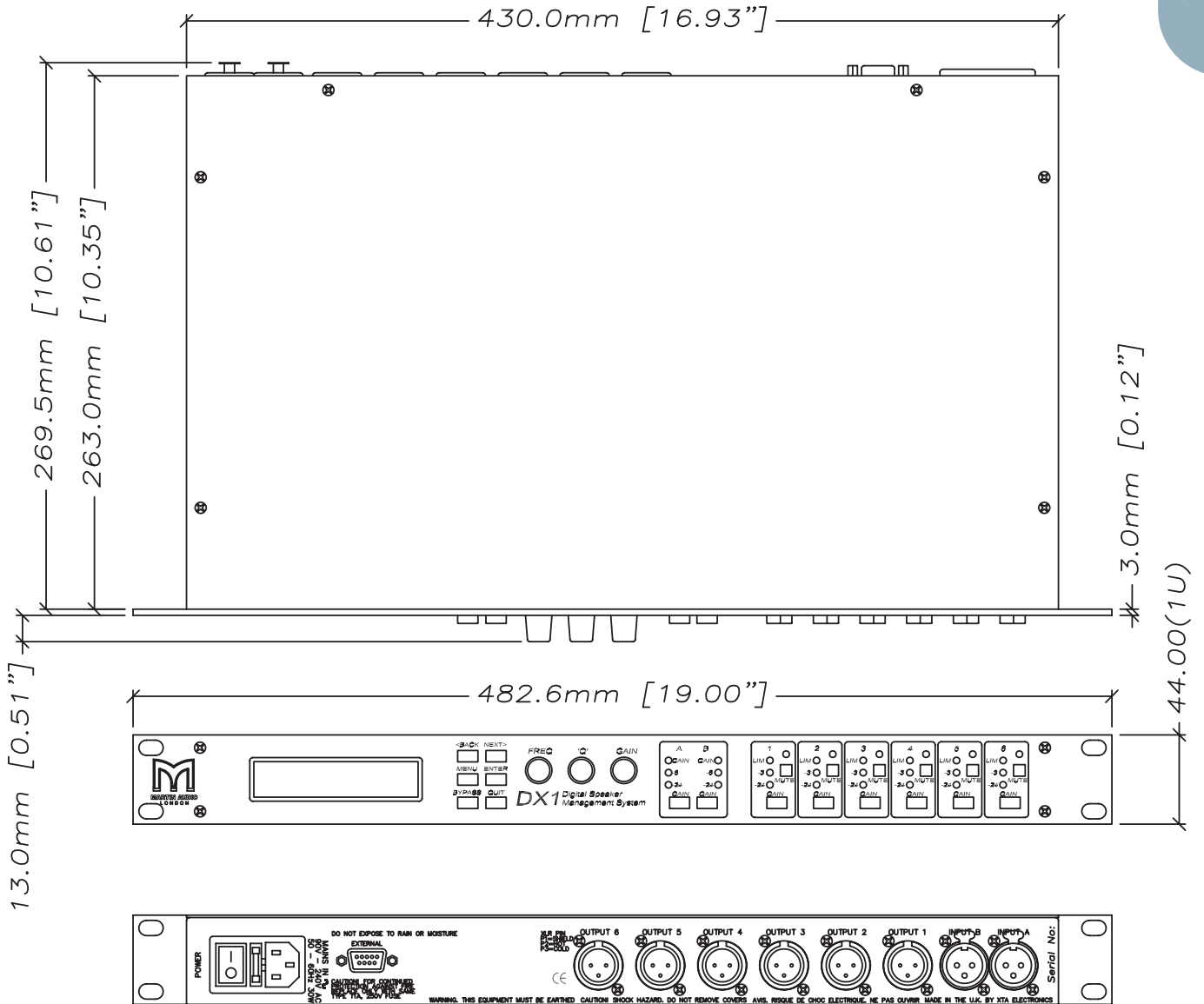


DX1

Loudspeaker management system

overall dimensions

electronics



DX1

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technical specifications

INPUTS	Two electronically balanced
IMPEDANCE	> 10k ohms
CMRR	> 65dB 50Hz - 10kHz
OUTPUTS	Six electronically balanced
SOURCE IMP	< 60 ohms
MIN. LOAD	600 ohm
MAX. LEVEL	+20dBm into 600 ohm load
FREQUENCY RESP	±0.5dB 20Hz - 20kHz
DYNAMIC RANGE	> 110dB 20Hz -20kHz. Unwtd
DISTORTION	< 0.02% @ 1kHz, +18dBm
MAXIMUM DELAY	650 ms. (Increment 2.6 μs)
OUTPUT GAIN	adjustable +15dB to -40dB in 0.1dB steps and mute
INPUT GAIN	Adjustable +6dB to -40dB in 0.1dB steps
PARAMETRIC EQUALISATION	
FILTERS	5 Sections per output
FILTER GAIN	+15dB to -30dB in 0.1dB steps
CENTRE FREQUENCY	20Hz - 20kHz, 1/36 octave steps (368 positions)
FILTER Q / BW	0.4 to 128 / 2.5 to 0.008 (Sections switched to shelving response)
LOW FREQUENCY	20Hz - 1kHz
HIGH FREQUENCY	1kHz - 20kHz
SHELF GAINS	±15dB in 0.1dB steps
HIGH AND LOWPASS FILTERS	
FILTERS	1 of each per output
FREQUENCY (HPF)	10Hz - 16kHz, 1/36 octave steps
FREQUENCY (LPF)	60Hz - 22kHz, 1/36 octave steps
RESPONSE	Bessel / Butterworth 12/18/24dB per octave and Linkwitz-Riley 24dB per octave
LIMITERS THRESHOLD	+22dBu to -10dBu
ATTACK TIME	0.3 to 90 milliseconds
RELEASE TIME	4, 8, 16 or 32 times the attack time
DISPLAY	2 x 20 character backlit LCD
INPUT METER	2 x 3 point, -24dB to digital clip
OUTPUT METER	6 x 3 point, -24dB to limit level
CONNECTORS	
INPUTS	3 pin female XLR
OUTPUTS	3 pin male XLR
EXTERNAL	9 pin DEE connector (RS232)
POWER	3 pin IEC
POWER	60 to 250V ± 15% @ 50/60Hz
CONSUMPTION	< 20 watts
WEIGHT	3.5kg. Net (4.8kg. Shipping)
SIZE	(W) 483mm x (H) 44mm (IU) x (D) 285mm (W) 19ins x (H) 1.75ins x (D) 11.2ins

architectural and engineering specifications

The electronic system controller shall have 2 inputs and 6 outputs and operate as a 2x2-way, 2x3-way, and 4-way, 5-way or 6-way crossover device. Each output shall consist of a high and low pass filter, 5 bands of parametric equalisation, limiter, delay, gain and polarity controls. All inputs and outputs shall be electronically balanced. The controller shall be supplied pre-loaded with common configurations for all current Martin Audio products, have 19 user memories and a multi-level security 'lock out' function for all controls. A rear panel mounted RS232 interface shall enable factory presets to be easily updated by downloading a current file via a PC. The system controller shall include a voltage selection switch to enable operation from a 100, 120, 220 or 240V 50/60Hz AC mains power source.

Dimensions (W) 483mm x (H) 44mm (IU) x (D) 285mm (19ins x 1.75ins x 11.2ins).
Weight 3.5kg (7.7lbs).

The electronic loudspeaker system controller shall be the Martin Audio DXI.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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