

Engineer 418

Installed system digital management processor

features

- ▶ 4 input, 8 output freely routable signal path
- ▶ 8-band fully parametric EQ on every input/output
- ▶ Highpass and lowpass crossover filters on every output with slopes up to 24dB/octave
- ▶ Choice of Linkwitz-Riley, Butterworth or Bessel filters
- ▶ Speaker protection limiters on every output
- ▶ Unique advanced human-based Engineer algorithm
- ▶ Unique psycho-acoustical perceptual BassCreator algorithm
- ▶ Flexible event scheduler
- ▶ RS232 interface for PC programming and control
- ▶ RS485 interface for external remote control

applications

- ▶ Fixed Installation loudspeaker system management
- ▶ Automatic control of programme level and tonal quality to compensate for variations in programme sources
- ▶ Eliminates sub frequency noise pollution

The Martin Audio Engineer is an advanced, powerful digital signal processor designed to provide comprehensive control and management of installed loudspeaker systems.

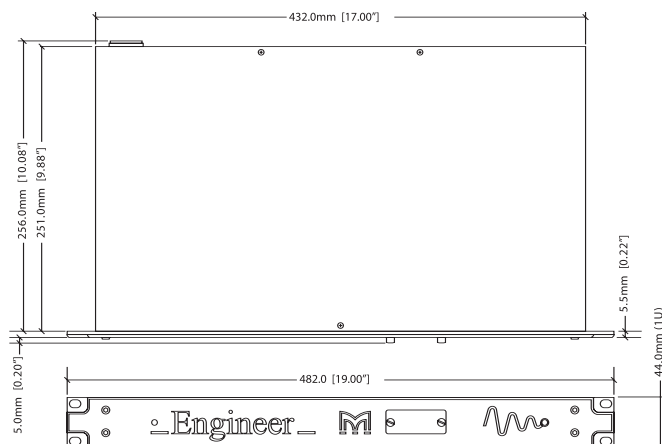
Incorporating a broad range of standard facilities; gain, EQ, limiting, time delay and a 4 x 8 routing matrix, the Engineer features the BassCreator and Engineer algorithms. These unique, innovative functions offer solutions to some of the most commonly encountered operational and environmental problems encountered in audio system design.



technical specifications

INPUTS	Four electronically balanced
IMPEDANCE	> 25K ohms
OUTPUTS	Eight electronically balanced
SOURCE IMPEDANCE	< 60 ohms
MIN. LOAD	600 ohms
MAX. LEVEL	+20dBu
FREQUENCY RESP	+ 0.1dB 8Hz - 20kHz
DYNAMIC RANGE	> 110dB Unweighted
DISTORTION	0.0035% @ 1kHz 0dB
INPUT GAIN	Adjustable +12dB to -inf. on 0.25dB steps
OUTPUT GAIN	Adjustable +12dB to -inf. on 0.25dB steps
PARAMETRIC EQUALISATION	
FILTERS	8 bands per input, 8 bands per output
FILTER TYPES	Bell, Lowshelf, Highshelf, Notch, Bandpass
FILTER GAIN	+12dB to -45dB in 0.25dB steps
FILTER Q/BW	User selectable 0.05 to 20 / 20 to 0.05
FREQUENCY RANGE	20Hz - 20kHz
HIGH AND LOW PASS FILTERS	
FILTERS	One high and one lowpass for each output
FREQUENCY RANGE	20Hz - 20kHz
RESPONSE	Bessel, Butterworth, Linkwitz-Riley 12/18/24 dB/oct
LIMITERS	
LIMITER THRESHOLD	+20dBu to -43dBu
ATTACK TIME	0.3 to 45ms
RELEASE TIME	4.8 to 720ms
BASSCREATOR ALGORITHM	
PLACEMENT	Freely insertable on any output
FREQUENCY RANGE	Virtual 30Hz to 120Hz
PARAMETERS	Drive, mix level
ENGINEER ALGORITHM	
PLACEMENT	Freely insertable on any input
OPERATING RANGE	-45dB to +22dB
PRESETS	
PRESET TYPES	System, Routing, Noise Emission, Engineer
PRESET NUMBER	32 user-accessible presets
SECURITY	
LEVELS	3 security levels with user assignable passwords
STORAGE	Security settings are stored within the device
CONNECTORS	
INPUTS	12-pin Phoenix plug-in terminal block
OUTPUTS	2 x 12-pin Phoenix plug-in terminal block
RS-232	9-pin DB9 connector
RS485	RJ45 connector
POWER	3-pin IEC
POWER	60 to 250V @ 50/60Hz
CONSUMPTION	30 Watts
SIZE	(W) 482mm x (H) 44mm x (D) 251mm
SIZE	(W) 19ins x (H) 1.75ins (1U) x (D) 9.89ins
WEIGHT	3.35kg (7.4lbs)

overall dimensions



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