

W8LC Compact Line Array

Compact, high performance three-way line array enclosure

touring and theatre

technical specifications

TYPE	Three-way line array element
FREQUENCY RESPONSE (5)	60Hz-18kHz \pm 3dB
DRIVERS	12" (300mm)/3" (75mm) voice coil, Hybrid™ bass horn loaded 2 x 6.5" (165mm)/1.5" (38mm) coil drivers, horn loaded 3 x 1" (25mm) exit HF compression drivers, horn loaded
RATED POWER (2)	LF: 400W AES, 1600W peak MF: 200W AES, 800W peak HF: 100W AES, 400W peak
SENSITIVITY (6)	LF: 103dB MF: 106dB HF: 109dB
MAXIMUM SPL (calculated @ 1m)	LF: 129dB continuous, 135dB peak MF: 129dB continuous, 135dB peak HF: 129dB continuous, 135dB peak
NOMINAL IMPEDANCE	LF: 8 ohms MF: 8 ohms HF: 8 ohms
DISPERSION (-6dB)	90° horizontal, 7.5° vertical 120° horizontal @ -10dB
CROSSOVER	300Hz, 3kHz active
ENCLOSURE	Vertical trapezoid with 3.75° wall angle, multi-laminate birch ply construction
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x Neutrik NL8
FITTINGS	Proprietary rigging system
DIMENSIONS (inc. wheelboard)	(W) 1000mm x (H) 367mm x (D) 550mm (656mm) (W) 39.4ins x (H) 14.5ins x (D) 21.7ins (27.8ins)
WEIGHT (ex. wheelboard)	58kg (128lbs)

accessories

W8LCGRIDASSEMBLY	Flying grid
W8LCGRIDLIFTINGBAR	Lifting bar
HAM214	Ground stacking bar
HTK175	Flying Pin

Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4 π) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4 π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4 π) space at 2 metres using band limited pink noise, then referred to 1 metre.

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.

architectural and engineering specifications

The loudspeaker system shall be of the three-way horizontally formatted line array type. The low frequency section shall consist of one 12" (300mm) cone transducer, horn and reflex loaded in a Hybrid™ bass system. The mid frequency section shall consist of two 6.5" (165mm) cone drivers coupled to a constant directivity horn using toroidal phase devices. The high frequency section shall consist of three 1" (25mm) exit HF compression drivers mounted on vertically coupled waveguides with a constant directivity horn. The enclosure shall be constructed of heavily braced multi-laminate plywood with all flying hardware integral and captive. The loudspeaker shall be operated with a separate dedicated electronic controller.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 60Hz-18kHz \pm 3dB.

High frequency dispersion at -6dB points shall be 90° H x 7.5° V.

Power handling shall be 400W AES, 1600W peak LF, 200W AES, 800W peak MF, 100W AES, 400W peak HF. Rated impedance shall be 8 ohms LF/MF/HF.

Maximum SPL measured at 1 metre on axis shall be 129dB continuous, 135dB peak.

Dimensions (W) 1000mm x (H) 367mm x (D) 550mm (39.4ins x 14.5ins x 21.7ins).

Weight 58kg (128lbs).

The loudspeaker system shall be the Martin Audio W8LC.

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