

LE12JB

Active/passive low profile differential dispersion floor monitor

features

- ▶ Very high SPL from compact full range enclosure
- ▶ Differential dispersion high frequency horn
- ▶ Active/passive operation via external switch
- ▶ 1.4" (35mm) exit titanium diaphragm compression driver
- ▶ Multi-laminate birch ply construction

applications

- ▶ High power stage monitoring



The LE12JB is a two-way active/passive, multi-angled enclosure fitted with a high sensitivity 12" (300mm)/ 3" (75mm) coil driver handling low frequencies up to the 1.3kHz crossover point. High frequencies are reproduced by a 1.4" (35mm) exit titanium diaphragm compression driver loaded by a proprietary differential dispersion 50° - 100° horizontal x 70° vertical horn.

The differential dispersion horn varies its horizontal dispersion from wide to narrow as the performer moves back from the monitor. This narrowing dispersion effectively changes the forward gain of the horn which enables the horn to throw further, increasing the operating range of the monitor and reducing excess spill. As the performer moves closer to the monitor the dispersion widens giving the performer the ability to hear themselves clearly even when positioned directly above or to the left or right of the monitor.

The multi-angled enclosure is of multi-laminate birch ply construction and is available in left and right handed versions. Incorporating a tough punched steel grille and recessed side handles, the cabinet is finished in black textured paint.

When operated in passive mode the LE12JB can be used without a controller. Used actively the LE12JB is best operated with DX1 or MX5 controllers to provide crossover, limiting and eq functions. In either mode sound quality is consistent, enabling use of both active and passive configurations on stage, without the need to compensate for differing tonal balance. When using the LE12JB in active mode performance is identical to its predecessor, the LE12J. A retro-fit kit is available to upgrade this model.

touring and theatre

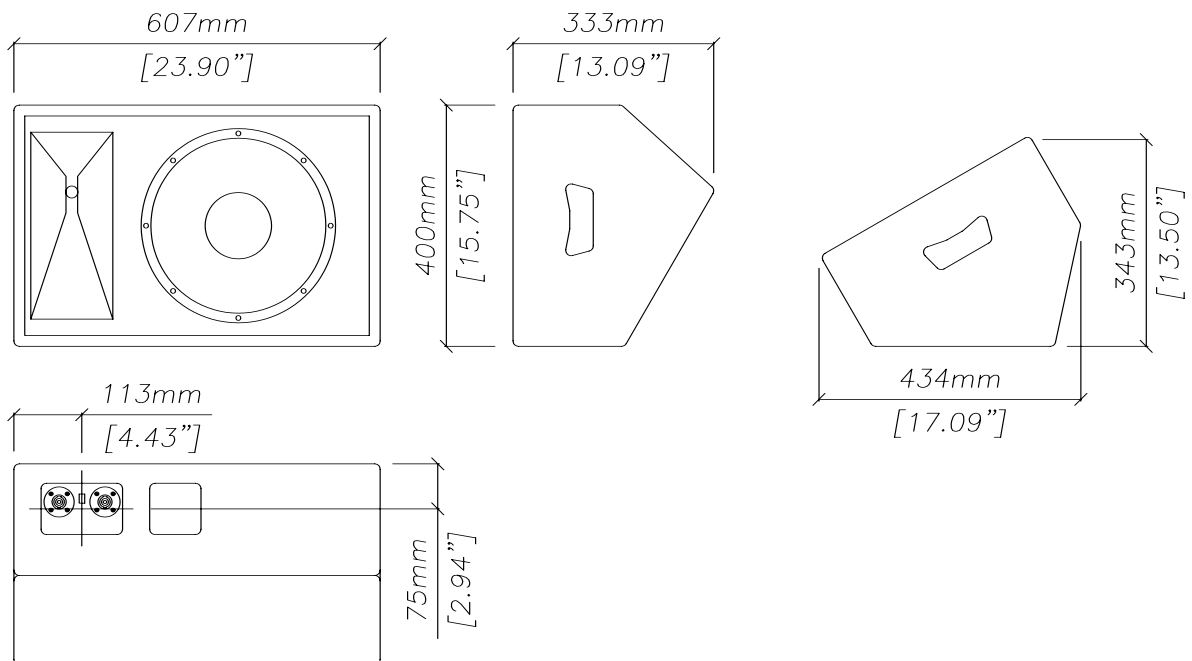
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overall dimensions



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technical specifications

TYPE	Two-way reflex enclosure with differential dispersion HF horn
FREQUENCY RESPONSE (5)	65Hz-18kHz \pm 3dB
DRIVERS	12" (300mm)/3" (75mm) voice coil 1.4" (35mm) exit HF compression driver
RATED POWER (2)	FR/LF: 300W AES, 1200W peak HF: 75W AES, 300W peak
RECOMMENDED AMPLIFIER	500-700W into 4 ohms
SENSITIVITY (6)	FR: 97dB LF: 98dB HF: 106dB
MAXIMUM SPL (7)	FR: 120dB continuous, 126dB peak LF: 121dB continuous, 127dB peak HF: 124dB continuous, 130dB peak
NOMINAL IMPEDANCE	FR/LF: 8 ohms HF: 16 ohms
DISPERSION (-6dB)	50°-100° horizontal (differential dispersion), 70° vertical
CROSSOVER	1.3kHz active/passive
ENCLOSURE	38 litres
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x Neutrik NL4
DIMENSIONS	(W) 607mm x (H) 343mm x (D) 434mm (W) 23.9ins x (H) 13.5ins x (D) 17.1ins
WEIGHT	29.8kg (60lbs)

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 (4π) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4π) 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 a low profile wedge monitor for on-stage foldback. It shall be of the two-way active/passive type consisting of one 12" (300mm) direct radiating reflex loaded low frequency transducer and one 1.4" (35mm) exit HF compression driver mounted on a differential dispersion, low edge diffraction horn flare. The horn flare and cone transducer shall be mounted on a rotatable baffle to facilitate left and right handed operation. Active or passive operation shall be selected by a switch at the rear of the enclosure. In active mode the loudspeaker shall be bi-amped and operated with a separate electronic controller. In passive mode, low and high frequency sections shall be integrated by an internal 1.3kHz passive crossover network.

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 65Hz-18kHz \pm 3dB.

High frequency dispersion at -6dB points shall be 50°-100°H x 70°V.

Power handling shall be 300W AES, 1200W peak LF/(LF + HF), 75W AES, 300W peak HF.

Rated impedance shall be 8 ohms LF/(LF + HF), 16 ohms HF.

Maximum SPL measured at 1 metre on axis shall be 121dB continuous, 127dB peak.

Dimensions (W) 607mm x (H) 343mm x (D) 434mm (23.9ins x 13.5ins x 17ins).

Weight 25.7kg (57lbs).

The loudspeaker system shall be the Martin Audio LE12JB.

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