

# LE100

## Stage Monitor – Two-way passive, Coaxial Differential Dispersion

### Features

- Compact, two-way stage monitor
- Coaxial 'point-source' performance
- Differential Dispersion™ technology for consistent coverage
- Defined, near-rectangular coverage plane at head-height
- Low-profile plywood enclosure
- Integral pole-mount with removable bung
- M8 rigging inserts
- Multiple connectors for flexible deployment

### Applications

- Stage monitor
- Pole-mounted fill/PA system



The LE100 is an extremely compact, two-way passive monitor. It features a 12" (300mm) LF /1" (25mm) exit HF Coaxial Differential Dispersion driver to distribute sound evenly over the listening plane. The LF driver section has a 2.5" (65mm) voice coil and an efficient motor system with an aluminium demodulating ring to minimise distortion. The coaxial HF driver utilises a 1.75" (44mm) polyimide dome and features a low-compression phase-plug to reduce non-linearity associated with overly-high compression ratios.

The unique Coaxial Differential Dispersion technology employed in the LE100 produces a horizontal coverage pattern which varies from a wide 110° directly over the monitor, reducing to 60° further back. This tapering produces a near-rectangular coverage plane at head-height to maintain the sound level and balance independent of distance from the monitor.

The LE100 enclosure is constructed from durable plywood and is finished with a durable black textured paint. Ergonomic pocket handles assist handling and a strong, perforated steel grille with an acoustically transparent cloth backing provides driver protection. Moulded feet prevent movement onstage and protect the base of the monitor from scratches.

As well as use as a stage monitor, the LE100 offers a range of flexible deployment options. It can be inverted and used as a pole-mounted sidefill or sound reinforcement system without the need to rotate the drive unit, or combined with a Martin Audio subwoofer as a drumfill. A removable pole-mount bung maintains clean lines in stage monitor guise while a total of five NL4 connectors at the front, base and in each handle pocket satisfy a wide variety of user configurations.



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### Technical Specifications

TYPE	Two-way passive, Coaxial Differential Dispersion stage monitor
FREQUENCY RESPONSE (3)	78Hz-20kHz $\pm$ 3dB -10dB @ 58Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
RATED POWER (2)	300W AES, 1200W peak
RECOMMENDED AMPLIFIER	iK81/ VIA2502/5002/5004
SENSITIVITY (3)	97dB
MAXIMUM SPL (9)	129dB peak
NOMINAL IMPEDANCE	8 ohms
DISPERSION (-6dB)	110°-60° horizontal, 60° vertical
CROSSOVER	1.6kHz passive
ENCLOSURE	Birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
BAFFLE ANGLE	27°
CONNECTORS	5 x NL4 type
PIN CONNECTIONS	1+/1-
FITTINGS	2 x pocket handles Protective rubber feet on base and sides 4 x M8 inserts Pole-mount socket
DIMENSIONS	(W) 490mm x (H) 302mm x (D) 472mm (W) 19.3ins x (H) 11.9ins x (D) 18.6ins
DIMENSIONS INCL FEET	(W) 496mm x (H) 305mm x (D) 472mm (W) 19.5ins x (H) 12.0ins x (D) 18.6ins
WEIGHT	18kg (39.7lbs)
ACCESSORIES	Eyebolts

#### Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, 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.

