

# TECHNICAL DATA SHEET



## M-12 MONITOR LOUDSPEAKER



The M-12 is a compact, low profile floor monitor designed for any application where accurate, powerful artist reference is required. Various innovative features have been incorporated to make the M-12 as user-friendly as possible.

The compact enclosure houses a reflex-loaded 12" (305mm) weatherproofed neodymium LF cone drive unit and a 3" diaphragm, 1.4" exit HF compression driver on a differential dispersion waveguide. This waveguide produces a coverage pattern of 90°H x 40°V at one metre, which reduces to 50°H x 40°V at three metres. This variation gives a performer freedom of movement whilst reducing unwanted spill into adjacent microphones.

The enclosure is constructed from CNC-machined Birch plywood, and is supplied with heavy duty steel bar handles and non-slip rubber feet. An expanded steel mesh grille coated with acoustically transparent black foam protects the drive units from damage and moisture.

Like all EM Acoustics products, the M-12 utilises an internal UniPhase passive crossover, freeing it from the time-smearing typically encountered with passive products. The M-12 however comes as standard switchable active/passive for increased flexibility. The enclosure is supplied as left and right-handed versions for stage pairing, and comes fitted with 6 x Neutrik Speakon™ NL4MP connectors to allow discrete cable management.

### TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	2-way reflex loaded, differential dispersion
DIMENSIONS (HxWxD):	368 (14.5) x 588 (23.1) x 444 (17.5) mm/(ins)
NET/SHIPPING WEIGHT:	27/30kg
FREQUENCY RESPONSE <sup>1</sup> :	70Hz – 20KHz +/- 3dB
SENSITIVITY <sup>2</sup> :	99dB
DISPERSION <sup>3</sup> :	90°H x 40°V (one metre) 50°H x 40°V (three metres)
DRIVE UNITS:	1 x 12" (305mm) weatherproofed LF cone drive unit 1 x 1.4" (36mm) exit HF compression drive unit
POWER HANDLING:	400W RMS, 800W program
MAXIMUM SPL:	128dB continuous, 134dB peak (passive) 130dB continuous, 136dB peak (biamp)
NOMINAL IMPEDANCE:	8 ohms
CROSSOVER:	UniPhase1 internal passive
CONNECTORS:	6 x Neutrik Speakon™ NL4MP
ENCLOSURE:	18mm (3/4") multi-laminate Birch plywood – rebated, screwed & glued. Finished in black Warnex textured paint
GRILLE:	Black foam on polyester coated expanded steel mesh
OPTIONS:	Colours Connectors

### Notes on measurement conditions:

<sup>1</sup>Measured on-axis

<sup>2</sup>Average SPL over stated bandwidth with 1W input, measured at 1m

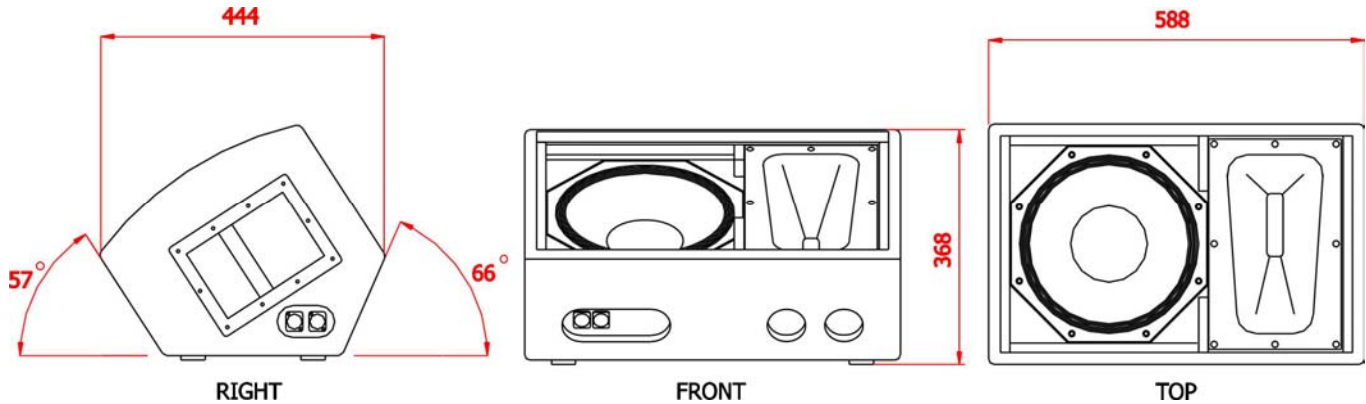
<sup>3</sup>Nominal dispersion, averaged over stated bandwidth

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### ENGINEERING DRAWING



### ENCLOSURE OPTIONS

#### Colours

Supplied as standard in black, however white & grey are available as options. By special order, any colour can be provided if the relevant RAL or Pantone colour code or a colour sample is provided.

#### Connectors

Neutrik Speakon™ NL4MP connectors supplied as standard. M-12P can be supplied with XLR connectors, or non-standard connectors by special order.