

# AM2

Two-way mid-high weatherised enclosure

## features

- ▶ Compact two-way mid/high system
- ▶ Textured high-density polyurethane coating both internal and external
- ▶ 'Phase-ball' loaded mid-driver
- ▶ Five year limited warranty

## applications

- ▶ Sports Stadia
- ▶ Arenas
- ▶ Exhibition halls



The AM2 is a high performance two-way, fully horn loaded mid-high pack enclosure designed for outdoor applications such as sports stadia and arenas. It features an innovative Hybrid™ 10" (250mm) mid-range horn with a unique "phase-ball" loading device. This maintains the 70° x 40° directivity pattern of the mid horn up to crossover, where a horn-loaded 1" (25mm) exit compression driver takes over for efficient mid-HF performance. The enclosure has a textured, high-density polyurethane coating applied both internally and externally, plus a galvanised steel grille with a water barrier to ensure product reliability over many years.

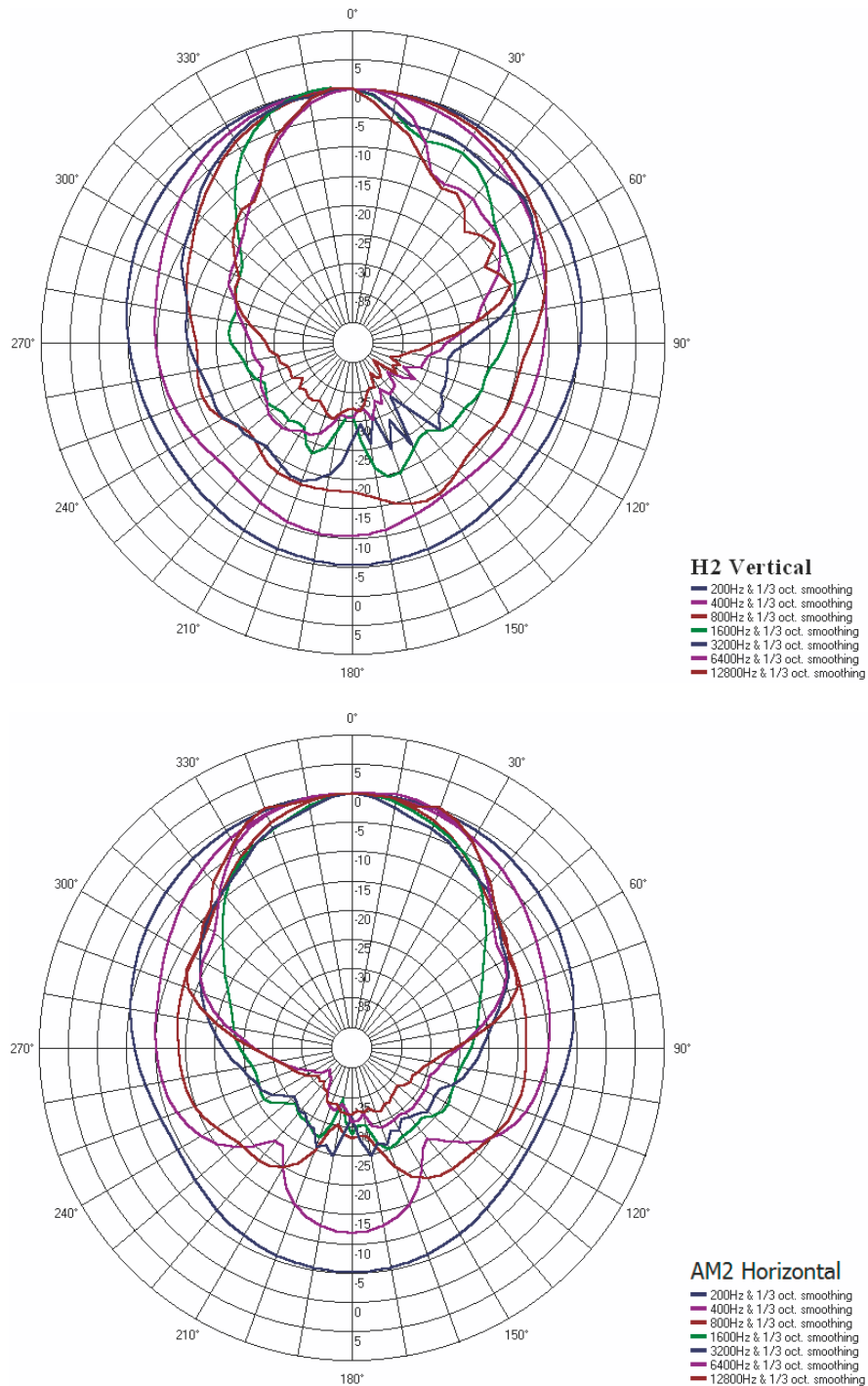
Connection to the AM2 is via a flying lead secured through a waterproof gland and all internal metalwork is galvanised. The AM2 has twelve 10mm threaded inserts fitted with copper coated and blacked steel bolts, to facilitate easy installation. The AM2 is fitted with a passive crossover network and is also available with an optional 150 watt or 50 watt 100/70 volt line transformer. Tapping adjustments may be made via spade terminals, which are accessed through a removable rear panel.

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polar plots

architectural



Century Point, Halifax Road, Cressex Business Park,  
High Wycombe, Buckinghamshire HP12 3SL, England.  
Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669  
E-mail: [info@martin-audio.com](mailto:info@martin-audio.com)  
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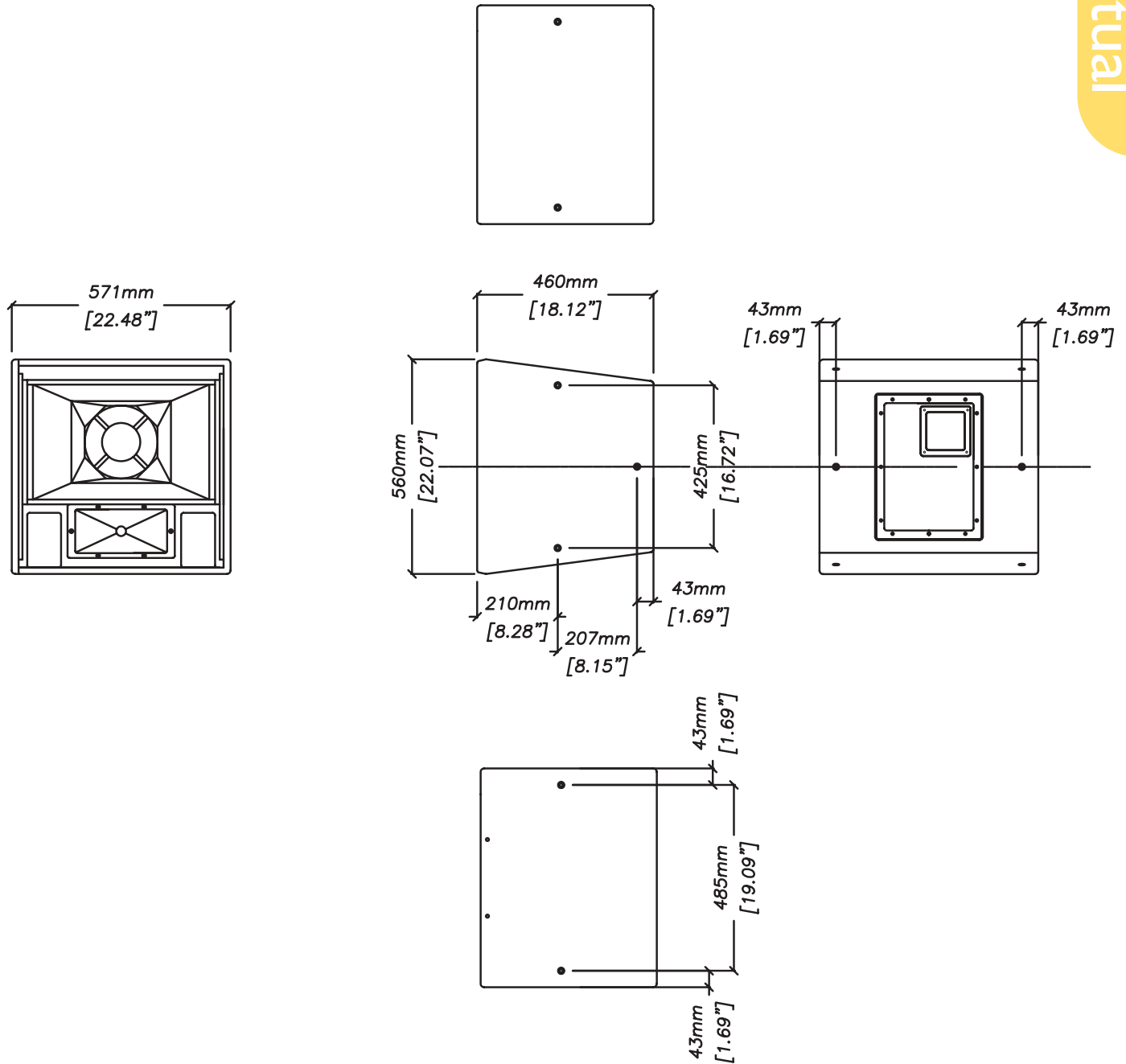


# AM2

Two-way mid-high weatherised enclosure

overall dimensions

architectural



AM2

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Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669  
E-mail: info@martin-audio.com  
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## technical specifications

TYPE	Two-way passive trapezoid Hybrid™ fully horn-loaded
FREQUENCY RESPONSE (5)	150Hz-18kHz ± 3dB
DRIVERS	10" (250mm) mid driver with waterproof cone 1" (25mm) exit HF compression driver
RATED POWER (2)	300W AES, 1200W peak
SENSITIVITY (6)	104dB
MAXIMUM SPL (7)	127dB continuous, 133dB peak
NOMINAL IMPEDANCE	8 ohms
DISPERSION (-6dB)	70° horizontal, 40° vertical
CROSSOVER	2kHz passive
FINISH	Textured high-density polyurethane coating External and internal
PROTECTIVE GRILLE	18 gauge punched steel, heavy galvanised and polyester-coated, with integral water barrier
CONNECTORS	3m flying lead, with loop-out option
FITTINGS	12 x M10 threaded inserts
OPTIONS	150W line transformer (100/70V option)
DIMENSIONS	(W) 560mm x (H) 571mm x (D) 460mm (W) 22ins x (H) 22.5ins x (D) 18.1ins
WEIGHT	38.5kg (85bs) 41kg (90lbs) with line transformer fitted

### 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 of the trapezoidal two-way, passive, Hybrid™ fully horn-loaded type, consisting of one 10" (250mm) horn and reflex loaded mid frequency transducer with a waterproof cone and a "phase-ball" loading device and one 1" (25mm) exit HF compression driver mounted on a constant directivity horn. The enclosure shall be of a multi-laminate birch ply construction finished both internally and externally with a textured, high-density polyurethane coating. A protective grille shall be fitted consisting of 18 gauge punched steel, heavy galvanised and polyester coated, backed with an integral water barrier. The enclosure shall be fitted with threaded inserts to facilitate easy mounting. The mid and high frequency sections shall be integrated by an internal 2kHz 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 150Hz-18kHz ±3dB.

High frequency dispersion at -6dB points shall be 70° H x 40° V.

Power handling shall be 300W AES, 1200W peak.

Rated impedance shall be 8 ohms.

Maximum SPL measured at 1 metre on axis shall be 127dB continuous, 133dB peak.

Dimensions (W) 560mm x (H) 571mm x (D) 460mm (22ins x 22.5ins x 18.1ins).

Weight 38.5kg (85lbs).

The loudspeaker system shall be the Martin Audio AM2.

Century Point, Halifax Road, Cressex Business Park,  
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