EM56
Compact trapezoid enclosure

features
- Compact trapezoid enclosure
- Ferrofluid cooled 1" (25mm) HF driver
- High SPL capability
- Multiple threaded inserts for ease of installation

applications
- Background music for clubs and bars
- Theatre delay/in-fill
- AV presentations
- Conference centres

The EM56 is the compact solution for high power loudspeaker applications where space is at a premium. A two-way passive, trapezoid system, the EM56 has a 10" cone bass driver for high power handling, coupled with a 1" HF ferrofluid cooled compression driver mounted on a 70° horizontal x 40° vertical constant directivity horn.

It can be used with EM Series sub-bass systems in conjunction with the EMX1A controller. Installation features include threaded inserts for eyebolts, wall bracket mounting points and a pole mounting socket in the base.
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EM56 Vertical
- 200Hz ± 1/3 oct. smoothing
- 400Hz ± 1/3 oct. smoothing
- 800Hz ± 1/3 oct. smoothing
- 1600Hz ± 1/3 oct. smoothing
- 3200Hz ± 1/3 oct. smoothing
- 6400Hz ± 1/3 oct. smoothing
- 12800Hz ± 1/3 oct. smoothing

EM56 Horizontal
- 200Hz ± 1/3 oct. smoothing
- 400Hz ± 1/3 oct. smoothing
- 800Hz ± 1/3 oct. smoothing
- 1600Hz ± 1/3 oct. smoothing
- 3200Hz ± 1/3 oct. smoothing
- 6400Hz ± 1/3 oct. smoothing
- 12800Hz ± 1/3 oct. smoothing

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Architectural frequency responses

EM56 Horizontal Magnitude in dB SPL/2.83V at 1 meter

EM56 Horizontal Beamwidth

EM56 Vertical Beamwidth
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### Technical Specifications

| TYPE | Compact, two-way passive trapezoidal |
| FREQUENCY RESPONSE (1) | 75Hz-18kHz ±3dB |
| DRIVERS | 10” (250mm) bass driver, 1” (25mm) driver, ferrofluid cooled |
| RATED POWER (2) | 150W AES, 600W peak |
| RECOMMENDED AMPLIFIER | 300-400W into 4 ohms |
| SENSITIVITY (3) | 97dB |
| MAXIMUM SPL (4) | 123dB peak |
| NOMINAL IMPEDANCE | 8 ohms |
| DISPERSION (-6dB) | 70° horizontal, 40° vertical |
| CROSSOVER | 2kHz passive |
| ENCLOSURE | 22 litre, vented |
| FINISH | Textured green paint |
| PROTECTIVE GRILLE | Grey perforated steel |
| CONNECTORS | 1 x Neutrik NL4 |
| FITTINGS | 4 x M8 inserts for Omnimount 100, 10 x M8 inserts, 1 x pole mount socket |
| DIMENSIONS (W) | 335mm x (H) 487mm x (D) 325mm |
| WEIGHT | 14.5kg (32lbs) |

### Accessories

- HTKCT05 8mm Shouldered Eye Bolt
- HTKM20 Wall Bracket (supplied in pairs)
- HTKWI Flying Yoke

### Notes

1. Measured on-axis in half space at 2 metres, then referred to 1 metre.
3. Measured in half space conditions at 2 metres with 1 watt input, then referred to 1 metre.
4. Measured in half space conditions 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.

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The loudspeaker system shall be of the two-way passive type consisting of one 10” (250mm) direct radiating reflex loaded low frequency transducer and one 1” (25mm) HF ferrofluid cooled compression driver mounted on a constant directivity horn in a trapezoidal enclosure. The enclosure shall be fitted with an integral pole mounting socket and threaded inserts for wall and ceiling mounting. Low and high frequency sections shall be integrated by an internal 2kHz 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 75Hz-18kHz ±3dB.
- High frequency dispersion at -6dB points shall be 70° H x 40° V.
- Power handling shall be 150W AES, 600W peak.
- Rated impedance shall be 8 ohms.
- Maximum SPL measured at 1 metre on axis shall be 117dB continuous, 123dB peak.
- Dimensions (W) 335mm x (H) 487mm x (D) 325mm
- Weight 14.5kg (32lbs)

The loudspeaker system shall be the Martin Audio EM56.