The Martin Audio Beatline12 is a two-way passive loudspeaker designed to provide high sound pressure levels from an architecturally friendly, heavily braced, vented enclosure. It features a 12" (300mm) long-throw, direct radiating bass driver with a 2.5" (63mm) voice coil, and a 1.7" (43mm) diaphragm, 1" (25mm) exit compression driver coupled to a true constant directivity HF horn.

The Beatline12's high power makes it ideal for medium throw applications in clubs, bars, AV presentations, places of worship, foyer presentations, sports venues and large exhibition spaces. Its high sound pressure level and extended low frequency response makes it suitable for medium throw live sound applications in theatres and concert halls and its sonic accuracy makes it appropriate for medium scale post production applications.

The Beatline12 features a generously sized high frequency horn and a high order crossover for superior pattern control down into the low midrange and smooth off-axis characteristics. The Beatline12 is housed in a heavily braced MDF enclosure and fitted with a flush, acoustically transparent steel grille. The enclosure is fitted with six M8 inserts for fitting AQWB8, or AQCL brackets to allow for horizontal or vertical mounting, plus two additional M8 inserts for either a safety point or fitting the AQFB Flying Bracket.
Compact, full-range system

polar plots - 1/3rd 8ve, 6dB/div

Horizontal

Vertical
Compact, full-range system

title

frequency responses

Horizontal (symmetrical)

Vertical -(up)

Vertical +(down)
The loudspeaker system shall be of the two-way passive type consisting of one 12" (300mm) direct radiating reflex loaded low frequency transducer and one 1" (25mm) exit HF compression driver mounted on a user rotatable constant directivity horn in a trapezoidal MDF enclosure. The enclosure shall be fitted with threaded inserts for attachment to a custom bracket. An internal 2.2kHz passive crossover network shall integrate the low and high frequency sections.

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 62Hz-18kHz ±3dB.
- High frequency dispersion at -6dB points shall be 80ºH x 50ºV.
- Power handling shall be 300W AES, 1200W peak.
- Rated impedance shall be 8 ohms.
- Maximum SPL measured at 1 metre on axis shall be 120dB continuous, 126dB peak.
- Dimensions (W) 354mm x (H) 560mm x (D) 364mm (14ins x 22ins x 14.3ins).
- Weight 20kg (44lbs).

The loudspeaker system shall be the Martin Audio Beatline12.