The Blackline H3H is a very high performance, all-horn, three-way system in a single, horizontally formatted, wide-bandwidth package. The Hybrid™ low frequency section comprises a horn-loaded 15" (380mm) / 4" (100mm) voice coil driver that is reflex loaded to extend the LF output to below the natural horn cut-off point. The 10" (250mm) mid-horn features a unique 'phase-ball' loading device and is teamed with a 70º x 40º horn-loaded 1" (25mm) exit compression driver for efficient mid-HF performance. The system has a passive 2kHz mid-HF crossover network to permit bi-amp operation using the M3 Electronic Controller.

The H3H is housed in a horizontal format, trapezoidal birch ply cabinet and fitted with twelve M10 inserts to facilitate ease of mounting. Generous handles and rear castors are fitted for easy cabinet deployment.

A Martin Audio M3 Electronic Controller is available to provide H3H crossover and limiter facilities. See M3 Electronic Controller Technical Specifications for suitable M3 Controller Cards.
Blackline H3H
All-horn three-way system

polar plots

H3H Vertical
- 420Hz 6/12 oct. smoothing
- 620Hz 6/12 oct. smoothing
- 1kHz 6/12 oct. smoothing
- 2.2kHz 6/12 oct. smoothing
- 4kHz 6/12 oct. smoothing
- 12kHz 6/12 oct. smoothing

H3H Horizontal
- 420Hz 6/12 oct. smoothing
- 620Hz 6/12 oct. smoothing
- 1kHz 6/12 oct. smoothing
- 2.2kHz 6/12 oct. smoothing
- 4kHz 6/12 oct. smoothing
- 12kHz 6/12 oct. smoothing

Century Point, Halifax Road, Cressex Business Park,
Telephone: +44 (0)1494 535312  Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
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www.martin-audio.com
Blackline H3H
All-horn three-way system

frequency responses

H3H Horizontal Magnitude in dB SPL at meter

H3H Horizontal Beamwidth

H3H Vertical Beamwidth

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Blackline H3H
All-horn three-way system

Overall dimensions:

- Height: 911mm (35.97")
- Width: 750mm (29.7")
- Depth: 594mm (23.35")

The diagrams show the dimensional details typical to both sides of the H3H system.
architectural and engineering specifications

The loudspeaker system shall be of the trapezoidal three-way bi-amp Hybrid™ fully horn-loaded type, horizontally formatted and consisting of one 15” (380mm) horn and reflex loaded low frequency transducer, one 10” (250mm) horn loaded mid frequency transducer with 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 with threaded inserts to simplify mounting and fitted with 4” castors for easy deployment. The loudspeaker shall be operated with a separate electronic controller providing a 250Hz crossover between low and mid/high frequency sections. The mid 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 50Hz-18kHz ±3dB.
High frequency dispersion at -6dB points shall be 70° horizontal, 40° vertical.
Power handling shall be 500W AES, 2000W peak LF, 300W AES, 1200W peak MF + HF. Rated impedance shall be 8 ohms LF, 8 ohms MF + HF. Maximum SPL measured at 1 metre on axis shall be 130dB continuous, 136dB peak.
Dimensions (W) 1066mm x (H) 560mm x (D) 780mm (911mm x (H) 22ins x (D) 30.7ins (35.9ins)
Weight 77.5kg (170.5lbs).

The loudspeaker system shall be the Martin Audio H3H.

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, using band limited pink noise, 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.