

Blackline H3T⁺

Three-way bi-amp/tri-amp trapezoid Hybrid®
fully horn loaded

features

- ▶ All-horn three-way system
- ▶ 'Phase-ball' loaded mid-driver
- ▶ Hybrid® LF section
- ▶ Fitted with handles and castors
- ▶ Five year limited warranty

applications

- ▶ Larger club performance
- ▶ Large scale installs



professional

The Blackline H3T⁺ is a very high performance, all-horn, three-way system in a single, wide-bandwidth package. New drivers have been developed for improved performance in all bands. 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 new LF driver features a water resistant cone and triple roll surround for increased excursion.

The mid-horn of the H3T⁺ has a unique 'phase-ball' loading device which maintains the constant directivity characteristics of the horn at the upper end of its range. It is driven by a new 10" (250mm) midrange driver with an aluminium demodulating ring for improved high-mid clarity and reduced distortion when driven hard. The 70° x 40° HF section of the H3T⁺ features a neodymium 1" (25mm) exit compression driver with a Kapton diaphragm for high sensitivity and extended HF performance.

The internal mid/high crossover has an active/passive switch on the rear panel to select bi-amp or tri-amp operation.

The H3T⁺ is configured in a trapezoidal birch ply cabinet and may be horizontally arrayed for wide coverage applications. Its twelve M10 inserts make a variety of mounting methods possible including horizontal or vertical mounting. The enclosure has fitted as standard; generous pocket handles on the ends and sides, rear castors and lid clips, for an optional lid.

When driven in bi-amp mode, a Martin Audio M3⁺ Electronic Controller is available to provide H3T⁺ crossover and limiter facilities. A DX1.5 or equivalent controller is recommended for provision of crossover and limiter functions in tri-amp mode.

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
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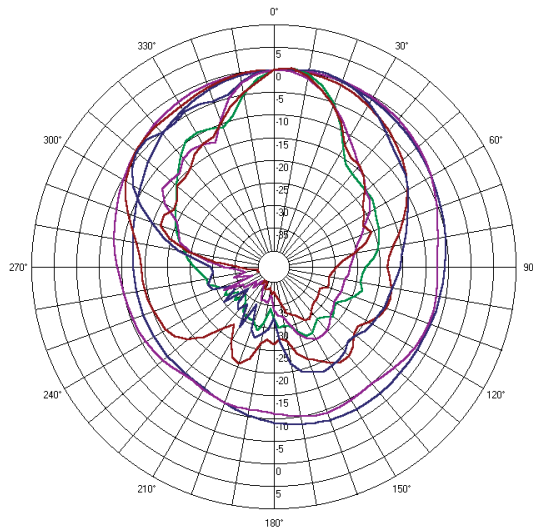


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Three-way bi-amp/tri-amp trapezoid Hybrid[®]
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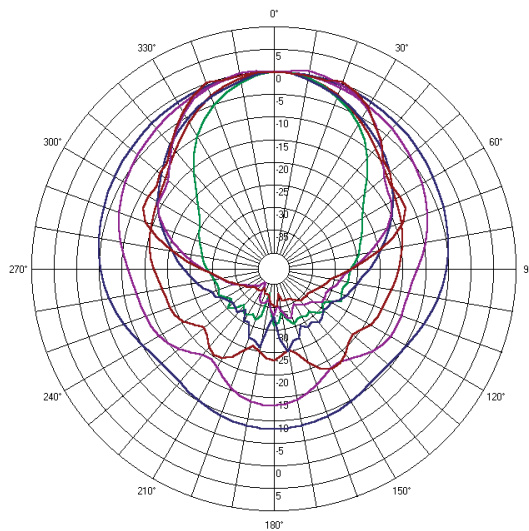
polar plots

professional



H3T⁺ Vertical

- 200Hz & 1/3 8ve
- 400Hz & 1/3 8ve
- 800Hz & 1/3 8ve
- 1600Hz & 1/3 8ve
- 3200Hz & 1/3 8ve
- 6400Hz & 1/3 8ve
- 12800Hz & 1/3 8ve



H3T⁺ Horizontal

- 200Hz & 1/3 8ve
- 400Hz & 1/3 8ve
- 800Hz & 1/3 8ve
- 1600Hz & 1/3 8ve
- 3200Hz & 1/3 8ve
- 6400Hz & 1/3 8ve
- 12800Hz & 1/3 8ve

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E-mail: info@martin-audio.com
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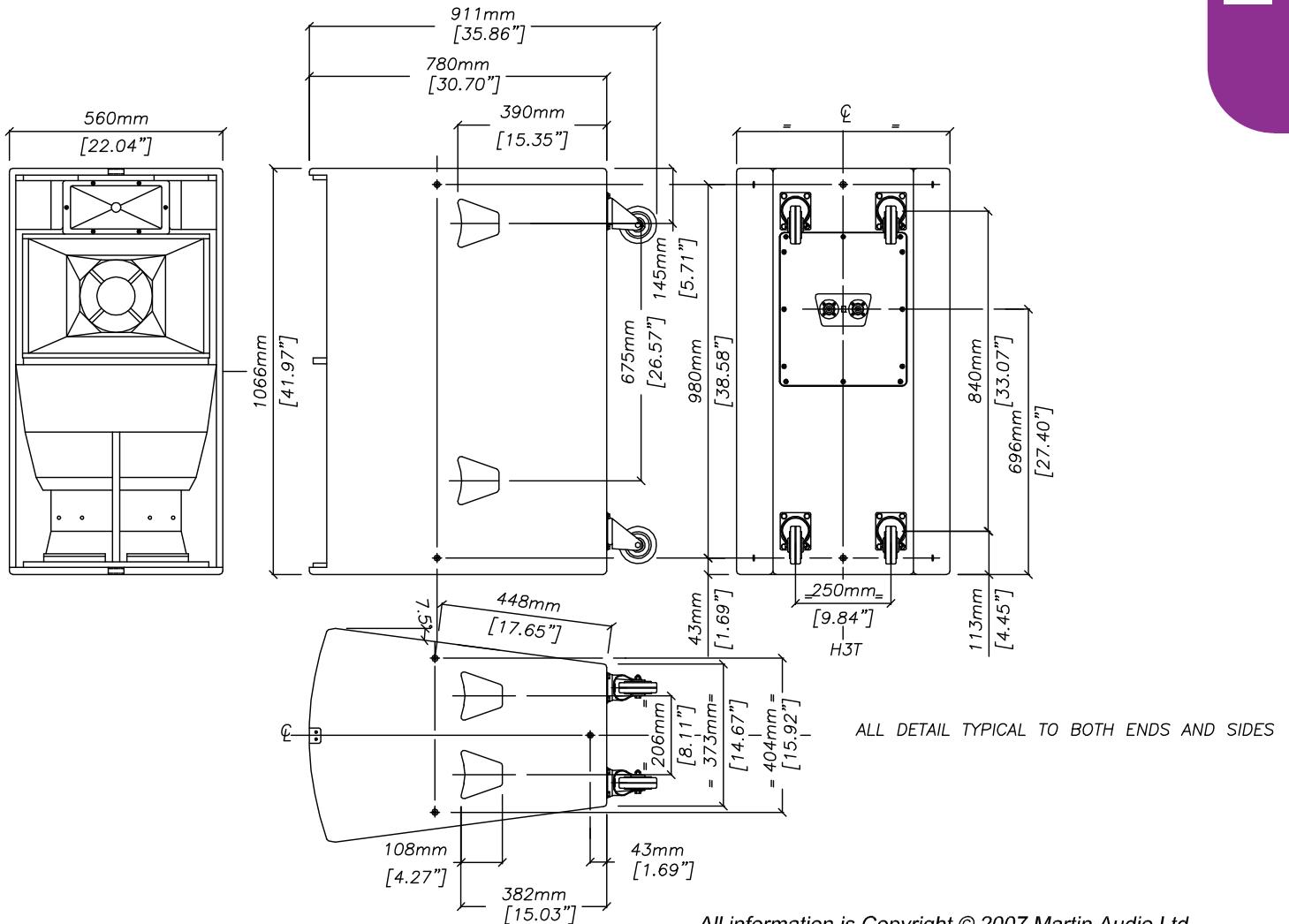


Blackline H3T⁺

Three-way bi-amp/tri-amp trapezoid Hybrid[®]
fully horn loaded

overall dimensions

professional



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H3T+

Century Point, Halifax Road, Cressex Business Park,
High Wycombe, Buckinghamshire HP12 3SL, England.
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E-mail: info@martin-audio.com
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Blackline H3T⁺

Three-way bi-amp/tri-amp trapezoid Hybrid®
fully horn loaded

professional

technical specifications

TYPE	Three-way bi-amp/tri-amp trapezoid Hybrid® fully horn loaded
FREQUENCY RESPONSE (5)	50Hz-18kHz ± 3dB
DRIVERS	15" (380mm)/4" (100mm) coil bass driver 10" (250mm)/2.5" (63.5mm) coil mid driver 1" (25mm) exit HF compression driver
RATED POWER (2)	LF: 750W AES, 3000W peak MF/(MF + HF): 300W AES, 1200W peak HF: 60W AES, 240W peak
RECOMMENDED AMPLIFIER	iK42, MA3.0
SENSITIVITY (6)	LF: 104dB, MF/(MF + HF): 104dB, HF: 106dB
MAXIMUM SPL (9)	133dB continuous, 139dB peak
NOMINAL IMPEDANCE	LF: 8 ohms, MF/(MF + HF): 8 ohms, HF: 8 ohms
DISPERSION (-6dB)	70° horizontal, 40° vertical
CROSSOVER	200Hz active, 2kHz active/passive
ENCLOSURE	250 litre, multi-laminate birch ply
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x Neutrik NL8
PIN CONNECTIONS	LF+,- : 1+, 1-, MF/(MF + HF)+,- : 2+, 2-, HF+,- : 3+, 3-, Link through all inc 4+, 4-
FITTINGS	12 x M10 inserts, 4 x 4" (100mm) castors 8 x pocket handles, 2 x lid clips
DIMENSIONS (inc wheels)	(W) 560mm x (H) 1066mm x (D) 780mm (911mm)
WEIGHT	(W) 22ins x (H) 42ins x (D) 30.7ins (35.9ins) 77.5kg (170.5lbs)

accessories

HTKCT06 10mm Shouldered Eye Bolt for
F215⁺, H3⁺, H3T⁺, H3H⁺

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.
- (8) Measured in open (4π) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 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 three-way switchable bi-amp/tri-amp, Hybrid® fully horn loaded type, consisting of one 15" (380mm)/4" (100mm) voice coil horn and reflex loaded low frequency transducer, one 10" (250mm)/2.5" (63.5mm) voice coil horn loaded mid frequency transducer with a "phase-ball" loading device and one 1" (25mm) exit titanium diaphragm HF compression driver mounted on a constant directivity horn. The enclosure shall be of a multi-laminate birch ply construction with threaded inserts for wall and ceiling mounting and fitted with 8 pocket handles and 4" (100mm) castors for easy deployment. Tri-amp or bi-amp operation shall be selected by a switch at the rear of the enclosure. In tri-amp mode the loudspeaker shall be operated with a separate electronic controller providing a 200Hz crossover between low and mid frequency sections and a 2kHz crossover between mid and high frequency sections. In bi-amp mode 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°H x 40°V.

Power handling shall be 750W AES, 3000W peak LF, 300W AES, 1200W peak MF/(MF + HF), 60W AES, 240W peak HF.

Rated impedance shall be 8 ohms LF, 8 ohms MF/(MF + HF), 8 ohms HF.

Maximum SPL calculated at 1 metre on axis shall be 133dB continuous, 139dB peak.

Dimensions (W) 560mm x (H) 1066mm x (D) 780mm (22ins x 42ins x 30.7ins). Weight 77.5kg (170.5lbs).

The loudspeaker system shall be the Martin Audio H3T⁺.

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