

# Blackline F12<sup>+</sup>

Compact, two-way passive system

## features

- ▶ Compact two-way passive system
- ▶ User rotatable 80° x 50° horn
- ▶ Top hat fitting for speaker stand mounting
- ▶ Five year limited warranty

## applications

- ▶ Live club performance
- ▶ Floor monitor
- ▶ Club installs
- ▶ AV presentations



professional

The Blackline F12<sup>+</sup> is a high power, compact two-way system with a new, vented-chassis, 12" (300mm) LF driver and a new 1" (25mm) exit compression driver mounted on a rotatable 80° x 50° constant directivity HF horn. The LF driver has a tough, water resistant cone and features a high BL motor with a flat-wire copper coil and an aluminium demodulating ring. This reduces intermodulation distortion and improves midrange performance when driven hard. Increased excursion is available by virtue of a triple roll surround and deep motor structure. The directivity of the LF driver has been matched to the HF horn in the crossover region by improved crossover design and cone profile optimisation, also the new HF compression driver utilises an ultra-lightweight Kapton diaphragm for extended high frequency response.

The F12<sup>+</sup> is the ideal choice for fullrange applications calling for an efficient, reliable workhorse that is equally suitable for fixed installations or quick deployment mobile operations. Its ergonomic design and rotatable HF horn makes near-ceiling mounting and aiming easy in venues with restricted height, whilst its multi-angle birch ply cabinet also allows it to be used as a highly intelligible floor monitor. Ten M8 inserts and four M8 bracket inserts make a variety of mounting methods possible including horizontal or vertical mounting.

The F12<sup>+</sup> comes with a top hat fitting for speaker stand mounting. This fitting can also be used as a pole socket when the F12<sup>+</sup> is used with a Blackline S15<sup>+</sup> or S18<sup>+</sup> subwoofer.

A Martin Audio M3<sup>+</sup> or DX1 Electronic Controller is available to provide F12<sup>+</sup>/subwoofer crossover and limiter facilities.

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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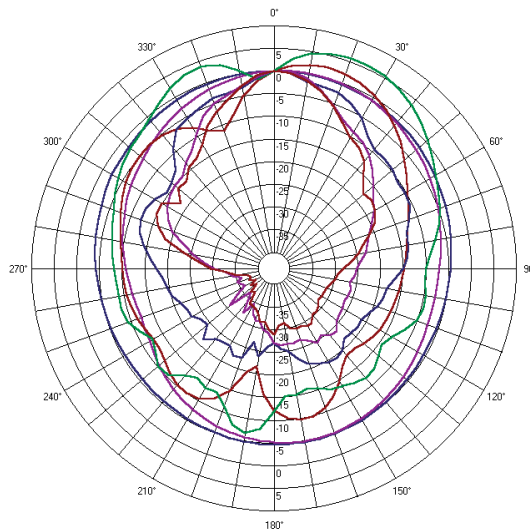


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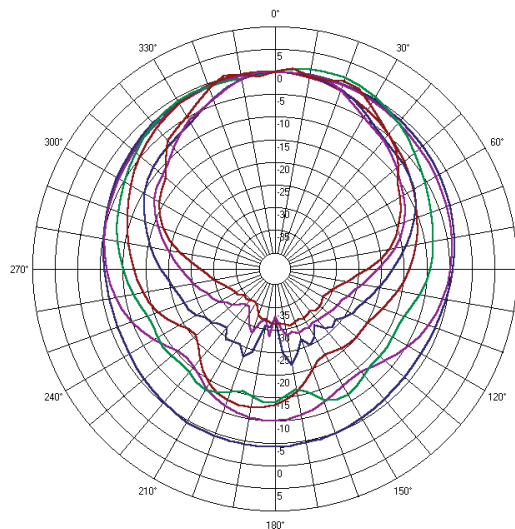
polar plots

professional



## F12<sup>+</sup> 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



## F12<sup>+</sup> 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](mailto:info@martin-audio.com)  
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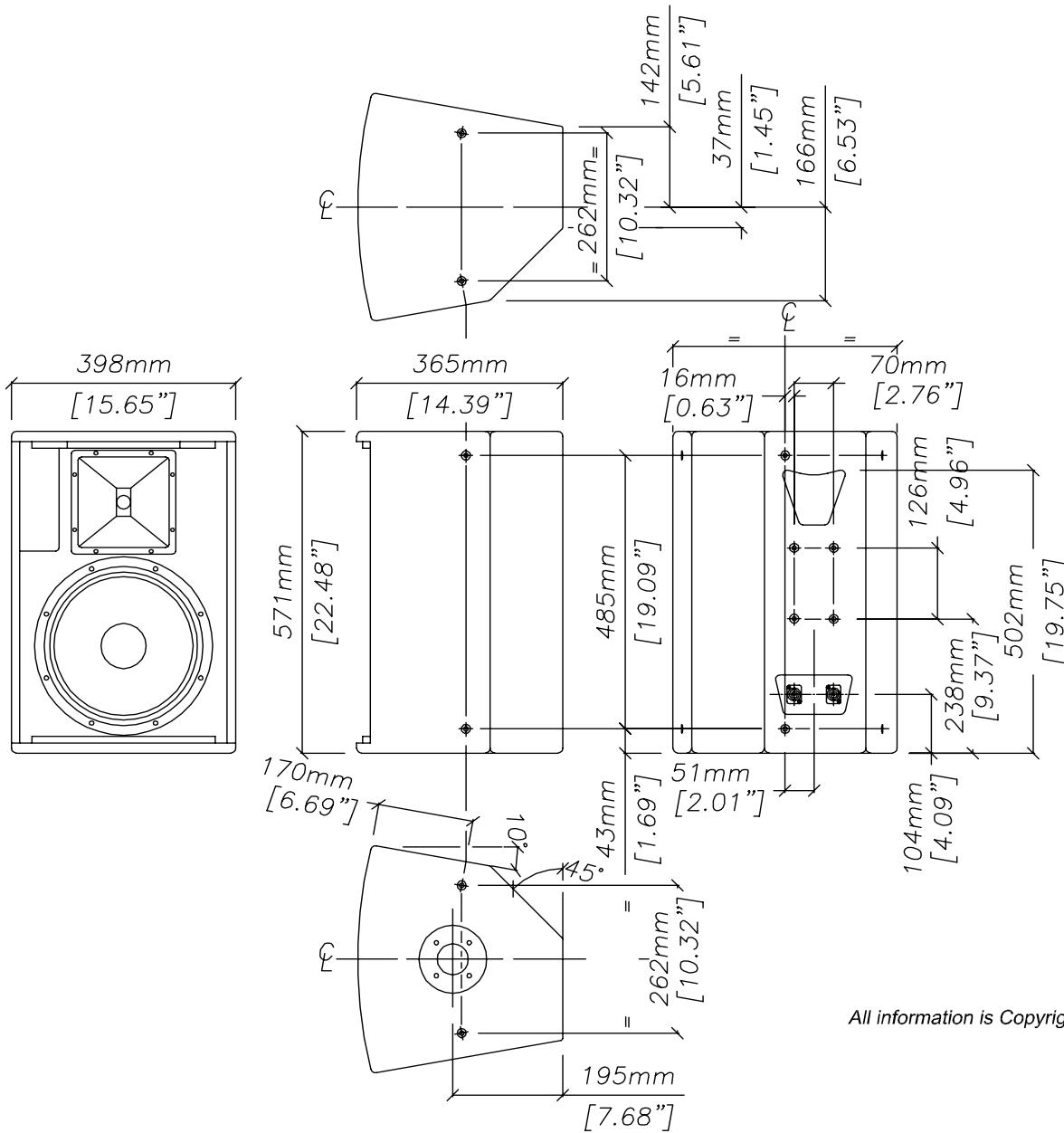


# Blackline F12<sup>+</sup>

Compact, two-way passive system

overall dimensions

professional



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professional

## technical specifications

TYPE	Compact, two-way passive
FREQUENCY RESPONSE (5)	65Hz-18kHz $\pm$ 3dB -10dB @ 55Hz
DRIVERS	12" (300mm)/2.5" (63.5mm) voice coil LF driver 1" (25mm) exit HF compression driver
RATED POWER (2)	300W AES, 1200W peak
RECOMMENDED AMPLIFIER	400W-1000W into 4 ohms
SENSITIVITY (6)	97dB
MAXIMUM SPL (7)	120dB continuous, 126dB peak
NOMINAL IMPEDANCE	8 ohms
DISPERSION (-6dB)	80° horizontal, 50° vertical
CROSSOVER	2.2 kHz passive
ENCLOSURE	38 litre, multi-laminate birch ply
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x Neutrik NL4
PIN CONNECTIONS	FR+,- : 1+,1-, Link thro': 2+,2-
FITTINGS	10 x M8, 4 x M8 threaded inserts 1 x mounting pole socket 1 x pocket handle
DIMENSIONS	(W) 398mm x (H) 571mm x (D) 365mm (W) 15.6ins x (H) 22.5ins x (D) 14.3ins
WEIGHT	21kg (46lbs)

## accessories

HTKF12Y	Flying Yoke for F12 <sup>+</sup>
HTKM20	Wall Bracket for F10 <sup>+</sup> and F12 <sup>+</sup>
HTKCT04	Pole for Blackline <sup>+</sup>
HTKCT05	8mm Shouldered Eye Bolt for F8 <sup>+</sup> , F10 <sup>+</sup> , F12 <sup>+</sup> , F15 <sup>+</sup>

### 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 (4 $\pi$ ) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4 $\pi$ ) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4 $\pi$ ) 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 two-way passive type consisting of one 12" (300mm)/2.5" (63.5mm) voice coil 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 multi-angled enclosure. The enclosure shall be of a multi-laminate birch ply construction with integral pole mount and threaded inserts for wall and ceiling mounting. Low and high frequency sections shall be integrated by an internal 2.2kHz 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 65Hz-18kHz  $\pm$  3dB.

High frequency dispersion at -6dB points shall be 80°H x 50°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 120dB continuous, 126dB peak.

Dimensions (W) 398mm x (H) 571mm x (D) 365mm (15.6ins x 22.5ins x 14.3ins).

Weight 21kg (46lbs).

The loudspeaker system shall be the Martin Audio F12<sup>+</sup>.

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