Blackline F10+
Compact, two-way passive system

features
- Compact two-way system
- User rotatable 90° x 50° horn
- Flexible mounting options
- Five year limited warranty

applications
- Club sound reinforcement
- Unobtrusive stage monitoring
- Fill-in system for main PA
- AV presentations

The Blackline F10+ is a versatile, two-way passive system, designed to provide exceptional sound reinforcement and stage monitoring from a very compact enclosure. It features a powerful 10” (250mm) low frequency driver and a 1” (25mm) HF compression driver mounted on a constant directivity 90° x 50° horn. Depending on the application, the HF horn can be rotated to allow the multi-angle enclosure to be used in either its vertical or horizontal orientation. A demodulating ring fitted to the LF driver reduces distortion and improves the performance at the upper end of the LF driver’s range at high levels. Additionally, the directivity of the LF driver has been matched to the HF horn by a combination of optimisation of the water-resistant LF cone profile and improved crossover design.

The two-way passive design of the F10+ enables simple, high performance systems to be put together whilst minimising the number of amplifier channels required. Where extra low frequency is required, sub-bass systems such as the Blackline S12+, S15+ or S18+ may be added.

The enclosure is provided with ten M8 inserts and four M8 bracket inserts for a variety of mounting arrangements. It is also provided with a top hat fitting for use with a speaker stand or as a pole socket for mounting above a Blackline+ subwoofer.

Use of a controller with the F10+ is optional. For demanding applications, an M3+ or DX1.5 controller configured to perform EQ and limiter functions is recommended.
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F10+ 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

F10+ 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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overall dimensions

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technical specifications

| TYPE | Compact, two-way passive |
| FREQUENCY RESPONSE (5) | 65Hz-20kHz ± 3dB, -10dB @ 56Hz |
| DRIVERS | 10" (250mm)/2.5" (63.5mm) voice coil LF driver, 1" (25mm) exit HF compression driver |
| RATED POWER (2) | 300W AES, 1200W peak |
| RECOMMENDED AMPLIFIER | MA2.0 |
| SENSITIVITY (6) | 96dB |
| MAXIMUM SPL (9) | 121dB continuous, 127dB peak |
| NOMINAL IMPEDANCE | 8 ohms |
| DISPERSION (6dB) | 90° horizontal, 50° vertical |
| CROSSOVER | 2.5 kHz passive |
| ENCLOSURE | 27.7 litre, multi-laminate birch ply |
| FINISH | Textured black paint |
| PROTECTIVE GRILLE | Black perforated steel |
| CONNECTORS | 2 x Neutrik NL4 |
| FITTINGS | 10 x M8, 4 x M8 threaded inserts |
| DIMENSIONS (W) | 351mm x (H) 500mm x (D) 317mm |
| WEIGHT | 17kg (37lbs) |

accessories

HTKF10Y Flying Yoke for F10+
HTKM20 Wall Bracket for F10+ and F12+
HTKCT04 Pole for Blackline+
HTKCT05 8mm Shouldered Eye Bolt for F8+, F10+, F12+, F15+

architectural and engineering specifications

The loudspeaker system shall be of the two-way passive type consisting of one 10" (250mm)/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 2.5kHz 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-20kHz ± 3dB.
- High frequency dispersion at -6dB points shall be 90°H x 50°V.
- Power handling shall be 300W AES, 1200W peak.
- Rated impedance shall be 8 ohms.
- Maximum SPL calculated at 1 metre on axis shall be 121dB continuous, 127dB peak.
- Dimensions (W) 351mm x (H) 500mm x (D) 317mm (13.8ins x 19.7ins x 12.5ins).
- Weight 17kg (37lbs).

The loudspeaker system shall be the Martin Audio F10+.

Notes
(1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
(2) AES Standard ANSI S1.13-1994.
(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 on-axis 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.