

XP15

High Output Self-Powered Two-Way System



Features

- High output, self-powered, portable two-way system
- 1300W of Class D amplification
- Global power supply with PFC (Power Factor Correction)
- Onboard DSP with rotary control interface
- Multi-function display for metering, control and function selection
- Three-channel mixer
- Three-band channel EQ, plus HPF (Ch1/2)
- Independent LF and HF peak and RMS limiters
- Three speaker mode and voicing presets
- Bluetooth® control and streaming option
- Durable plywood enclosure
- User-rotatable 80° x 50° HF horn
- Vertical and horizontal mounting options
- Symmetrical multi-angle enclosure for PA or stage monitor use
- Screw-free, cloth-backed steel grille
- Integral ergonomic handles
- Mounting options include pole-mount and flying inserts

Applications

- Portable sound reinforcement
- Live music clubs
- Nightclubs, bars and restaurants
- Corporate AV, hotels and casinos
- Mobile DJ's
- Weddings and parties
- HoW installations
- Rehearsal studios

The XP15 is a self-powered two-way system designed by leading acoustic engineers for indoor portable applications and installations that require powerful performance from a single portable loudspeaker. It features a 15" (380mm)/3" (75mm) voice coil LF drive unit, and a 1" (25mm) exit HF compression driver with a 1.75" (44mm) polyimide diaphragm. With an accurately-defined 80° x 50° coverage pattern, it combines very high output capability with exceptional sonic performance and low frequency impact.

Its Class D amplifier module delivers 1000W LF + 300W HF peak output to the drivers, which are independently protected by RMS and peak limiters. Onboard DSP functions are controlled by a rotary encoder interface and multi-function,



easy-to-use colour display on the rear panel. DSP features include crossover function, a three-channel mixer with three-band EQ on each input channel and a choice of three voicing presets and operating modes for flexible operation without external processing.

The symmetrical, multi-angle enclosure is manufactured from birch and poplar plywood and finished in textured black paint. It is fitted with M8 inserts for eyebolt suspension plus a pole-mount socket with a removable cap. Its cloth-backed protective steel grille is a spring-fit into the sides of the enclosure for easy access to rotate the HF horn.

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Technical Specifications

Acoustics

TYPE	High output, self-powered two-way system
FREQUENCY RESPONSE (5)	55Hz – 20kHz ± 3 dB -10dB @ 45Hz
DRIVERS	LF: 15" (380mm)/3" (75mm) voice coil ferrite motor system HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome

compression driver

MAXIMUM SPL (9)	125dB continuous / 131dB peak
DISPERSION	80° H x 50° V (user-rotatable)
CROSSOVER	2kHz active, 24dB/octave

Module

Audio In/Out

INPUT CONNECTORS	2 x female XLR/ ¼" jack combo
MIC/LINE INPUT IMPEDANCE	8 k Ω balanced
¼" JACK TS INPUT IMPEDANCE	1 M Ω unbalanced
MIX OUTPUT CONNECTOR	1 x male XLR
MIX OUTPUT IMPEDANCE	600 Ω balanced

Internal Processing

Input channel EQ	3-band on each channel plus HPF (Ch1/2)
Speaker EQ	3 speaker mode/voicing presets
Protection	LF and HF Peak and RMS limiting, amplifier thermal protection

Amplifier Module

TYPE	2 channel switch-mode, Class D
PEAK OUTPUT POWER	1300W total 1000W LF, 300W HF

AVERAGE EFFICIENCY 89%

COOLING External convection cooled

MAXIMUM AMBIENT TEMPERATURE 35°C (95°F) for full output

Power Supply

TYPE	Switch-mode, fixed frequency with PFC
AC INPUT OPERATING RANGE	100-240V ~ AC, 50 - 60Hz
POWER FACTOR	> 0.98
NOMINAL POWER CONSUMPTION	550W Max
MAINS CONNECTOR	3-pin IEC

Mechanical

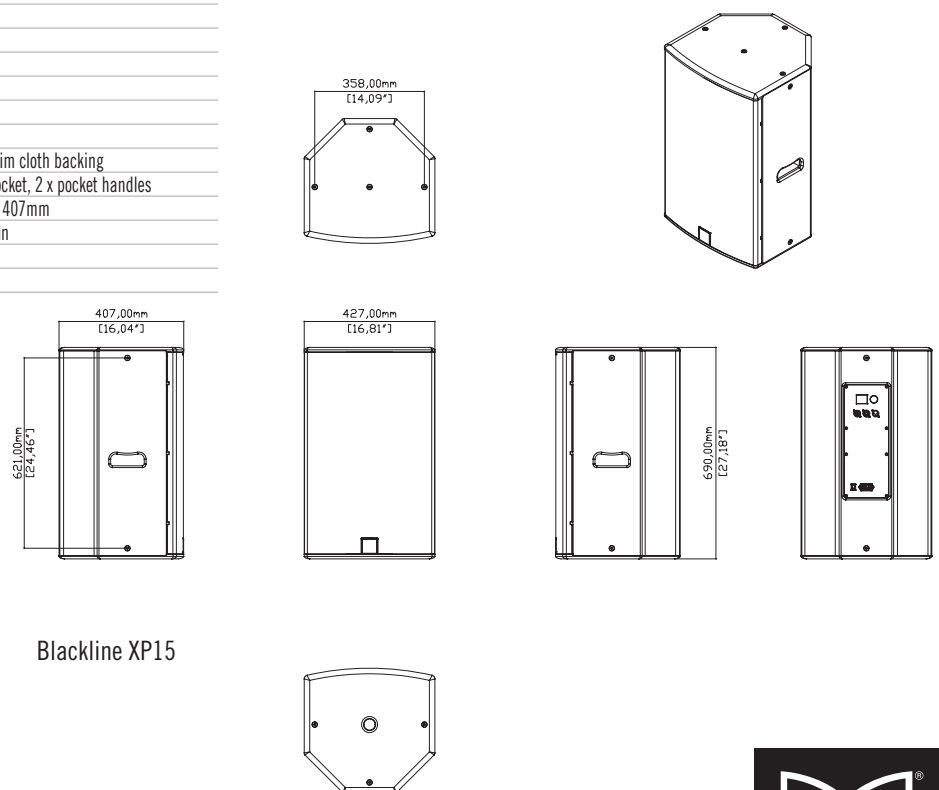
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
FITTINGS	13 x M8 inserts, pole-mount socket, 2 x pocket handles
DIMENSIONS	(W) 427mm x (H) 690mm x (D) 407mm W) 16.8in x (H) 27.2 x (D) 16.0in
WEIGHT	26kg (57lbs)
ACCESSORIES	Eyebolts

Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise.

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.



Blackline XP15

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