

XP12

Compact Self-Powered Two-Way System



Features

- Compact 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, wall bracket 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 XP12 is a compact, powered, two-way system designed by leading acoustic engineers. It can be used either as a stand-alone system, stage monitor or in conjunction with the XP118 powered subwoofer. Featuring a 12" (300mm) LF drivers and a 1" (25mm) exit compression driver on an 80° x 50° rotatable horn, it is ideal for small to mid-size indoor venues requiring class-leading sound from a compact enclosure. The LF driver has a 2.5" (65mm) voice coil and powerful magnet system for the tightest bass response, while the HF compression driver utilises a 1.75" (44mm) polyimide diaphragm for extended high-frequency response without distortion.

An onboard Class D amplifier module delivers 1000W LF + 300W HF peak output to the drivers and sophisticated DSP functions are controlled by a rotary interface and multi-function, easy-to-use colour screen on the rear panel. DSP

features include crossover function, a three-channel mixer with three-band EQ on each input channel and selection of three voicing presets and operating modes for flexible usage without external processing. The LF and HF drivers are independently protected by RMS and peak limiters for longevity and consistency of performance.

The XP12 is road-ready. Constructed from durable plywood, it is fitted with a cloth-backed steel grille to protect the drivers from damage and dust ingress, while not impeding airflow at low frequencies. The enclosure has M8 inserts for eyebolt suspension and a pole-mount socket with a removable cap that maintains clean lines for install applications. It is finished in black textured hard-wearing paint as standard.

Martin Audio Ltd
Century Point, Halifax Road, High Wycombe
Buckinghamshire HP12 3SL, England

Telephone: +44 (0) 1494 535 312
Facsimile: +44 (0) 1494 438 669
Email: info@martin-audio.com



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Technical Specifications

Acoustics

TYPE	Compact self-powered two-way system
FREQUENCY RESPONSE (5)	62Hz – 20kHz ± 3 dB -10dB @ 50Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, ferrite motor system HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome

compression driver

MAXIMUM SPL (9) 122dB continuous, 128dB peak

DISPERSION 80° H x 50° V (user-rotatable)

CROSSOVER 2.3kHz active, 24dB/octave

Module

Audio In/Out

INPUT CONNECTORS 2 x female XLR/ ¼" jack combo

MIC/LINE INPUT IMPEDANCE 8 k Ω balanced¼" 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 17 x M8 inserts, pole-mount socket, 2 x pocket handles

DIMENSIONS (W) 358mm x (H) 574mm x (D) 318mm

(W) 14.1in x (H) 22.6in x (D) 12.5in

WEIGHT 18kg (40lbs)

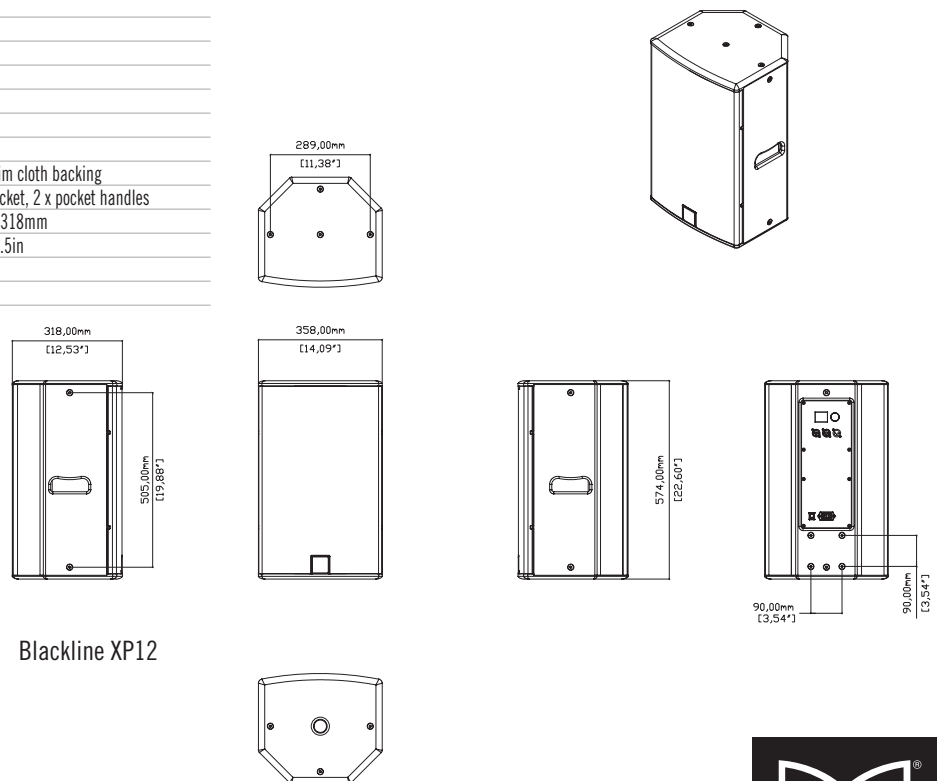
ACCESSORIES Wall bracket, eyebolts

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 XP12

Martin Audio Ltd
Century Point, Halifax Road, High Wycombe
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Facsimile: +44 (0) 1494 438 669
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