



**XP12 Compact Self  
Powered Two Way System**



# MARTIN AUDIO XP12 Compact Self Powered Two Way System Installation Guide

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**MARTIN AUDIO XP12 Compact Self Powered Two Way System**



## Specifications

- **Acoustics**
  - **Type:** Compact Self-Powered Two-Way System
  - **Frequency Response:** 5Hz to 2.3kHz
  - **Drivers:** Compression driver
  - **Maximum SPL:** 122dB continuous, 128dB peak
  - **Dispersion:** Not specified
  - **Crossover:** 2.3kHz active, 24dB/octave
- **Audio In/Out**
  - **Input Connectors:** MIC/LINE INPUT IMPEDANCE 8k balanced
  - **Mix Output Connector:** 1 x male XLR
  - **Mix Output Impedance:** 600 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
- **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
- **Mechanical**
  - **Enclosure:** Multi-angle birch/poplar ply
  - **Finish:** Black textured paint
  - **Protective Grille:** Black perforated steel with scrim cloth backing
  - **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

## Product Usage Instructions

### Setting Up the XP12 System

To set up the XP12 system, follow these steps:

1. Choose a suitable location for the XP12 with proper ventilation.
2. If using a pole mount, ensure the cap is removed from the pole-mount socket.
3. Connect your audio source to the input connectors using the appropriate cables.
4. If needed, adjust the input channel EQ and speaker EQ settings based on your requirements.
5. Power on the XP12 and adjust the volume levels accordingly.

### Operating Modes and Presets

The XP12 offers different operating modes and presets for flexible usage:

- Choose from three voicing presets to suit different environments or applications.
- Select the appropriate operating mode based on whether you are using external processing or not.

## Maintenance and Care

To ensure longevity and optimal performance of your XP12 system:

- Regularly check and clean the protective grille to prevent dust ingress.
- Avoid exposing the system to extreme temperatures or moisture.
- If transporting the XP12, use appropriate covers or cases to protect it from physical damage.

## 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
- A 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 modes 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 driver 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 utilizes 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 a crossover function, a three-channel mixer with three-band EQ on each input channel, and a 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 installation applications. It is finished in black textured hard-wearing paint as standard.

## Technical Specifications

**Acoustics**

TYPE	Compact self-powered two-way system
FREQUENCY RESPONSE (5)	62Hz – 20kHz $\pm$ 3dB -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 $\Omega$ balanced
¼" JACK TS INPUT IMPEDANCE	1 M $\Omega$ unbalanced
MIX OUTPUT CONNECTOR	1 x male XLR
MIX OUTPUT IMPEDANCE	600 $\Omega$ 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

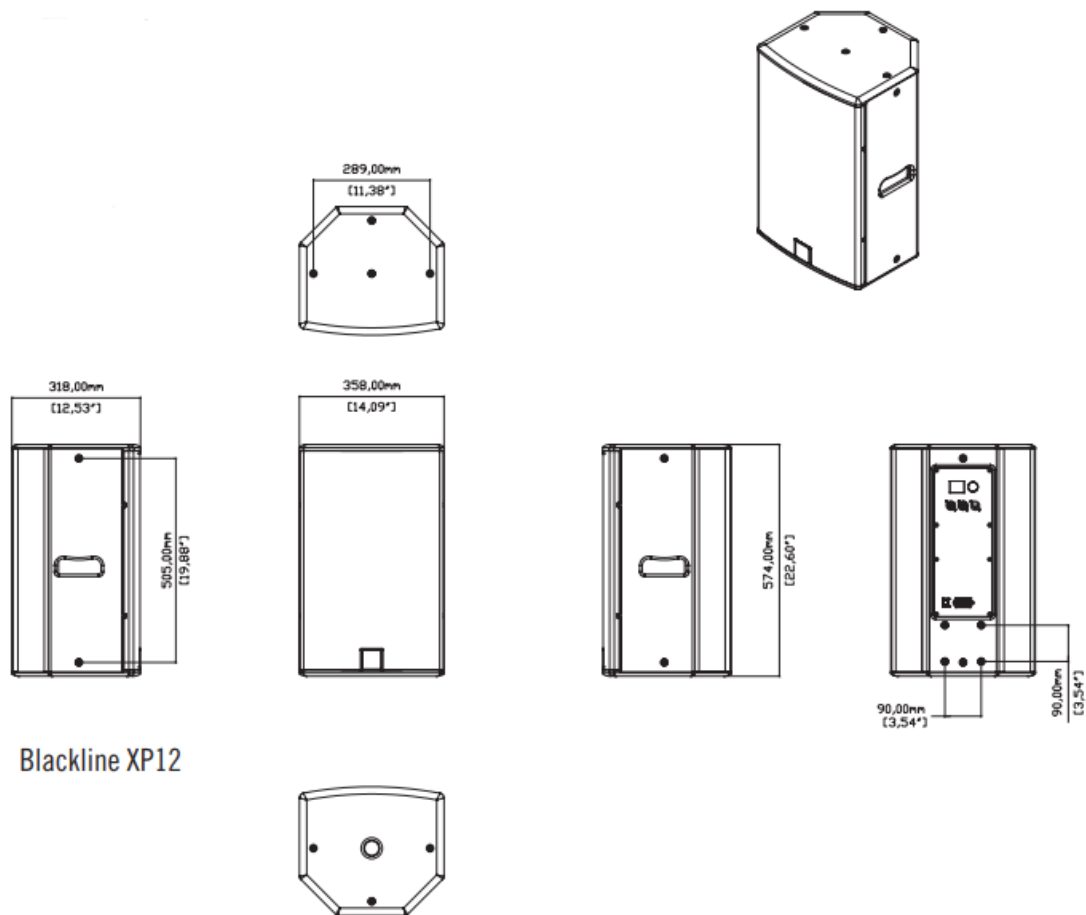
**Power Supply**

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

**Dimension**



Blackline XP12

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## Frequently Asked Questions

- **Q: Can I use the XP12 for outdoor events?**
  - A: While the XP12 is road-ready and durable, it is recommended to avoid direct exposure to elements such as rain or excessive sunlight during outdoor events.
- **Q: How do I reset the XP12 to factory settings?**
  - A: To reset the XP12 to factory settings, locate the reset button on the rear panel and hold it down for a few seconds until you see the indicator light flashing.
- **Q: What is the warranty period for the XP12?**
  - A: The warranty period for the XP12 is typically one year from the date of purchase. Please refer to the official warranty documentation for detailed terms and conditions.

## Documents / Resources



**[MARTIN AUDIO XP12 Compact Self Powered Two Way System](#)** [pdf] Installation Guide  
XP12 Compact Self Powered Two Way System, XP12, Compact Self Powered Two Way System  
, Self Powered Two Way System, Two Way System, Way System

References

- [audio.commartin-audio.com](#)
- [User Manual](#)

Manuals+, [Privacy Policy](#)

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