

# DDX12

## Compact Full Range System



### Features

- Multi-purpose, professional, passive full range systems
- Coaxial Differential Dispersion technology achieves 'point source' performance and optimum coverage footprint across the audience plane
- Compact, multi-angle enclosures for vertical and horizontal orientation and stage monitor use
- Drivers can be rotated for vertical or horizontal operation by removing screw-free perforated steel grilles

### Applications

- Live sound reinforcement and portable systems
- Stage monitors and sidefills
- Theatre sound
- Corporate AV events
- Fixed installations in Government, Education, Museums, Hotels and hospitality



DDX12 is part of the DDX series. Combining the 'point-source' benefits of coaxial designs with the consistent coverage of differential dispersion technology, DDX full-range systems project sound evenly front-to-back while exhibiting wide horizontal coverage close to the speaker — delivering ultimate fidelity and impact to all corners of the audience.

The DDX12 is a high-performance system designed for professional applications that require high output levels from a very compact enclosure. Its high-specification 12" (300mm) LF /1" exit HF coaxial differential dispersion driver delivers perfect sound across the audience over medium throw distances. The LF driver has a 2.5" (65mm) voice coil and efficient motor with an aluminium demodulating ring to minimise distortion, while the HF driver utilises a 1.75"

(44mm) polyimide diaphragm and features a low-compression phase plug to reduce non-linearity. The coaxial differential dispersion driver can be easily rotated for horizontal or vertical orientation depending on venue design requirements.

The DDX12 is constructed from durable plywood, finished with hard wearing black textured coating paint, and fitted with a screw-free steel grille, M8 inserts for a wall bracket and eyebolt suspension, plus a pole mount socket.

Ergonomic handles at the rear of the enclosure make for easy handling while maintaining clean lines.

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### Technical Specifications

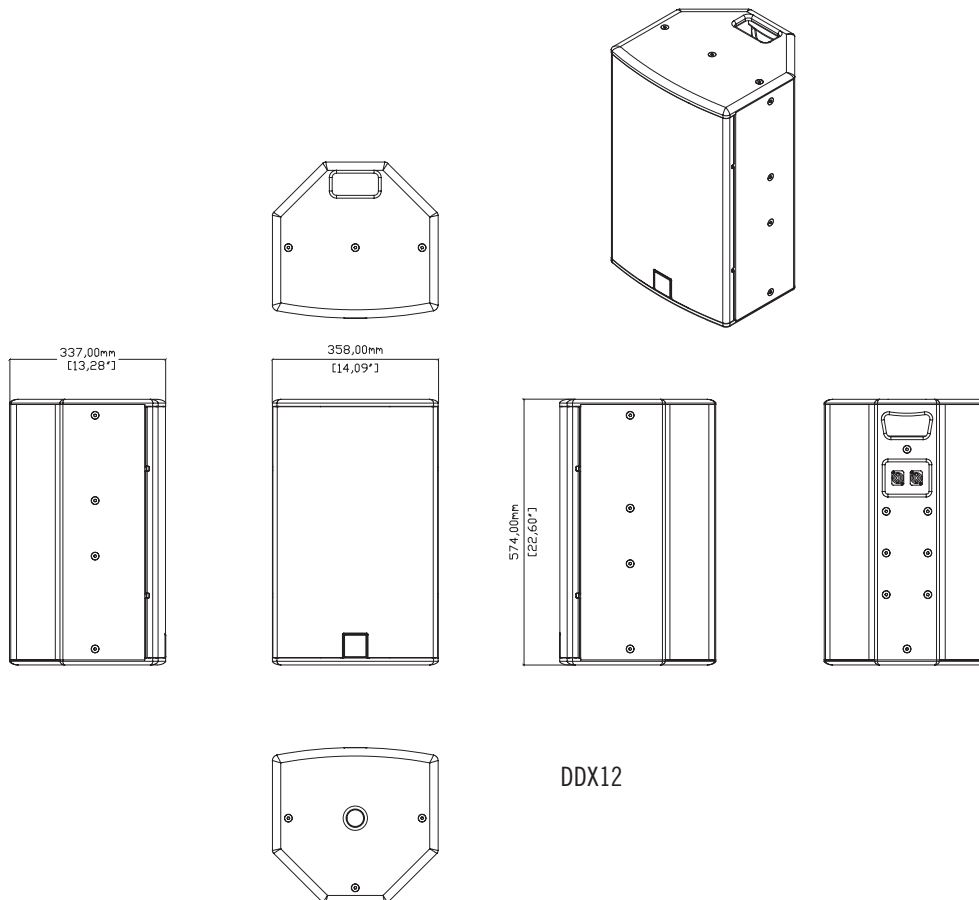
TYPE	Compact, high-output, Coaxial Differential Dispersion passive two-way system
FREQUENCY RESPONSE (5)	62Hz-20kHz $\pm$ 3dB, -10dB @ 50Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, long excursion, shared ferrite motor with HF HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
RATED POWER (2)	300W AES, 1200W peak
RECOMMENDED AMPLIFIER	VIA2502 or VIA5002 or VIA5004
SENSITIVITY (8)	97dB
MAXIMUM SPL (9)	122dB continuous, 128dB peak
NOMINAL IMPEDANCE	8 $\Omega$
DISPERSION	110°-60° horizontal, 60° vertical (user-rotatable)
CROSSOVER	1.9kHz passive
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/-1-
PIN CONNECTIONS	1+/- to 1+/-
FITTINGS	20 x M8 inserts, pole-mount socket, 1 x bar handle
DIMENSIONS	(W) 358mm x (H) 574mm x (D) 337mm (W) 14.1ins x (H) 22.6ins x (D) 13.7ins
WEIGHT	18kg (39.68lbs)
ACCESSORIES	Wall bracket, eyebolts, pole

#### 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, 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.



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