

CDD8TX-WR



Ultra-Compact Coaxial Differential Dispersion System with 70/100V Line Transformer –Weatherised

Features

- Ultra-compact, CDD™ passive two-way system
- Coaxial Differential Dispersion™ technology
- Elegant UPM Formi composite enclosure
- Outdoor operation when sheltered from direct exposure to elements
- Operating temperature -20°C to +70°C
- Environmentally tested to meet IP54
- User-rotatable coaxial drive unit
- Vertical and horizontal mounting options
- Screw-free water and particle resistant grille
- Discreet weatherised mounting accessories
- Black or white standard colour options
- 70V/100V line transformer (no low impedance)



Applications

- Outdoor restaurants, bars, hotel areas
- Nearfield systems in outdoor stadia, transport hubs, concourses and theme parks

The CDD8TX-WR is a weatherised ultra-compact two-way passive loudspeaker system incorporating a 70V/100V transformer (with a 5-way connector) and suitable for outdoor applications where it will be subject to changing environmental conditions, but sheltered from direct exposure to the elements. It features an integrated 8" (200mm) LF/1" (25mm) exit HF Coaxial Differential Dispersion driver which can be easily rotated for horizontal or vertical orientation depending on venue design requirements. Its small size gives no indication of its high output capability and has a multitude of outdoor applications that benefit from amplifier efficiency by being able to daisy-chain loudspeakers.

The Coaxial Differential Dispersion technology employed in the CDD8TX-WR delivers more consistent audience coverage than systems with fixed X° x Y° coverage patterns — projecting relatively more output to the rear of the audience, while having wide horizontal coverage close-up. Its innovative CDD driver achieves 'point source' summation of the LF and HF sections — eliminating off-axis variations in frequency response associated with non-coaxial designs. Improving on conventional coaxial designs, which can suffer from high-frequency beaming, the driver features a static waveguide that merges seamlessly with the unique cone shape — maintaining the dispersion pattern out to very high frequencies.

The visually-distinctive enclosure can be used in either horizontal (landscape) or vertical (portrait) orientation, with rotation of the driver easily accomplished by removing the screw-free, protective grille. The curved shape of the enclosure allows it to be surface-mounted close to a wall or ceiling by means of optional wall and ceiling weatherised brackets.

CDD8TX-WR features a water and particle resistant grille made from zinc plated mild steel with powder coated finish and is suitable for operating temperatures between -20°C to +70°C and environmentally tested to meet IP54.

Finished in black (RAL9005) or white (RAL9016) as standard, with any RAL colour to order.

A full-range, passive two-way system, the CDD8TX-WR should be used with a compatible controller with appropriate limiter settings to provide system protection.

When used with a DX controller or an iKON amplifier, enhanced DSP and FIR-based presets deliver the absolute maximum performance and fidelity, while limiter settings protect the integrity of the system. Note that this speaker is high impedance only; there is no low impedance mode.

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Technical Specifications

Acoustical

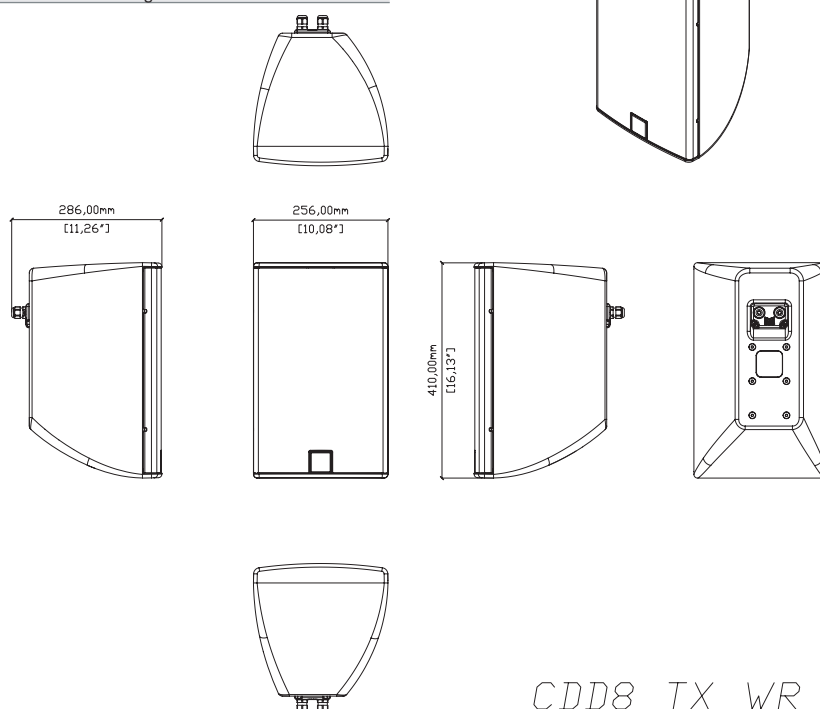
TYPE	Ultra-compact, Coaxial Differential Dispersion passive two-way system
FREQUENCY RESPONSE (5)	70Hz-20kHz $\pm$ 3dB -10dB @ 55Hz
DRIVER	LF: 8" (200mm)/2" (50mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25mm) exit/1.4" (38mm) voice coil, polyimide dome compression driver
RATED POWER (2)	120W AES, 240W peak
RECOMMENDED AMPLIFIER	VIA5002, iK41, iK81
TRANSFORMER SETTINGS	70V line: 120W, 60W, 30W, 15W (no low impedance) 100V line: 120W, 60W, 30W(no low impedance)
SENSITIVITY (8)	94dB
MAXIMUM SPL (9)	115dB continuous, 121dB peak
NOMINAL IMPEDANCE	Line transformer taps: 42, 83, 166, 333 ohms
DISPERSION (-6dB)	110°-80° horizontal, 60° vertical (user-rotatable)
CROSSOVER	2.3kHz passive
ENCLOSURE	14 litre, composite material
FINISH	Black or white as standard
PROTECTIVE GRILLE	Zinc plated mild steel with powder coated finish and weatherised backing
ENVIRONMENTAL	Rated at IP54
CONNECTORS	Terminal block with spring connections, weatherproof input panel cover with cable gland panel cover with cable gland
PHOENIX CONNECTOR 5 WAY	70V: Common, 15W, 30W, 60W, 120W 100V: Common, 30W, 60W, 120W
FITTINGS	6 x M6 inserts for wall/ceiling brackets
DIMENSIONS	(W) 256mm x (H) 410mm x (D) 252mm (W) 10.1ins x (H) 16.1ins x (D) 9.9ins
WEIGHT	11.4kg (25.13lbs)
ACCESSORIES	WB6/8B wall bracket black WB6/8W wall bracket white CDDCB6/8B ceiling bracket black CDDCB6/8W ceiling bracket white

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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