

# CDD10TX-WR

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



## Features

- 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
- Integral inserts for eyebolt suspension
- 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 CDD10TX-WR is a weatherised very compact two-way passive loudspeaker system incorporating a 70V/100V transformer (with a 5-way connector). It is suitable for larger outdoor applications that benefit from amplifier efficiency by being able to daisy-chain loudspeakers through use of the inbuilt transformer and where it will be subject to changing environmental conditions, but sheltered from direct exposure to the elements. It utilises a 10" (250mm) LF/1" (25mm) exit HF Coaxial Differential Dispersion driver and 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.

The Coaxial Differential Dispersion technology employed in the CDD10TX-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 composite 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 CDD10TX-WR allows it to be surface-mounted close to a wall via an optional wall bracket or suspended from a ceiling by eyebolts or a horizontal yoke option

A full suite of weatherised accessories are available and fixings on the loudspeaker are stainless steel. Finished in black (RAL9005) or white (RAL9016) as standard, with any RAL colour to order.

A full-range, passive two-way system, the CDD10TX-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

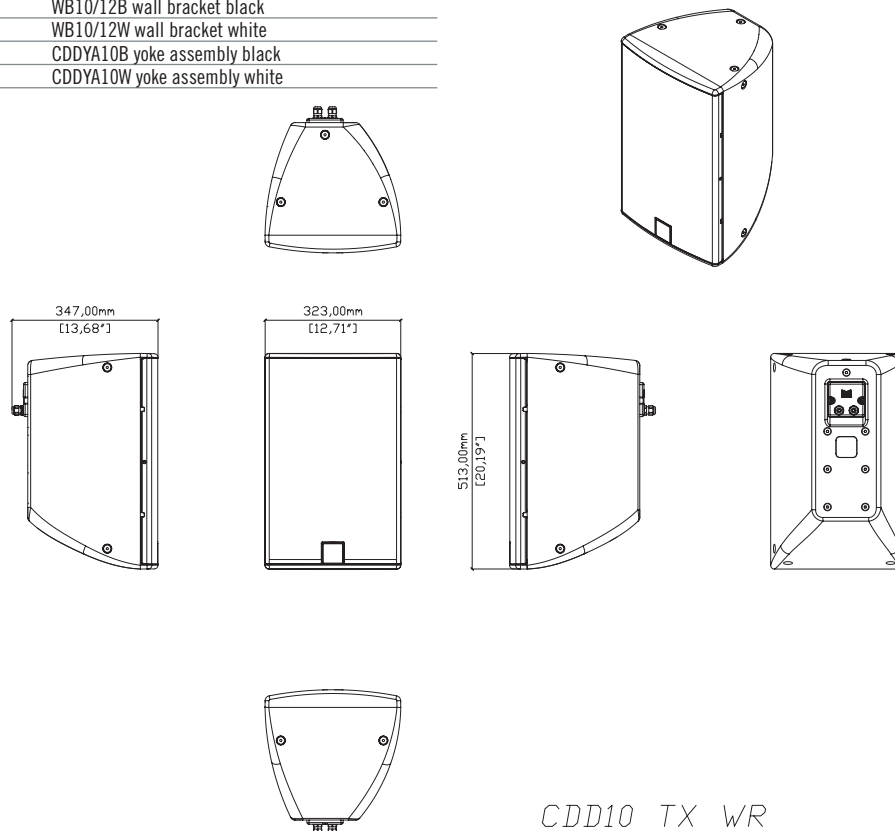
TYPE	Compact, Coaxial Differential Dispersion passive two-way system
FREQUENCY RESPONSE (5)	65Hz-20kHz $\pm$ 3dB -10dB @ 55Hz
DRIVER	LF: 10" (250mm)/2.5" (63.5mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25mm) exit/1.4" (38mm) voice coil, polyimide dome compression driver
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)	96dB
MAXIMUM SPL (9)	117dB continuous, 123dB peak
NOMINAL IMPEDANCE	Line transformer taps: 42, 83, 166, 333 ohms
DISPERSION (-6dB)	110°-75°horizontal, 60° vertical (user-rotatable)
CROSSOVER	2kHz passive
ENCLOSURE	28 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
PHOENIX CONNECTOR 5 WAY	70V: Common, 15W, 30W, 60W, 120W 100V: Common, 30W, 60W, 120W
FITTINGS	6 x M8 inserts for wall bracket 10 x M8 fly points
DIMENSIONS	(W) 323mm x (H) 513mm x (D) 310mm (W) 12.7ins x (H) 20.23ins x (D) 12.2ins
WEIGHT	17.1kg (37.73lbs)
ACCESSORIES	WB10/12B wall bracket black WB10/12W wall bracket white CDDYA10B yoke assembly black CDDYA10W yoke assembly 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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