

# CDD5

## Ultra-Compact Coaxial Differential Dispersion System

### Features

- Ultra-compact, CDD™ passive two-way system
- Coaxial Differential Dispersion™ technology
- Elegant ABS moulded enclosure
- User-rotatable coaxial drive unit
- Vertical and horizontal mounting options
- Screw-free perforated steel grille
- 8Ω nominal impedance
- Discreet mounting accessories
- Black or white standard colour options
- 70V/100V line transformer option

### Applications

- Bars and restaurants
- Museums and AV spaces
- Convention centres
- Hotels
- Retail outlets
- Leisure centres
- Houses of Worship



The CDD5 is a two-way passive micro speaker designed for discreet positioning in architectural installations — including bars, museums, foyers, concourses, exhibition centres and HoW. It features a unique, patent-pending 5" (125mm) LF/0.7" (19mm) HF Coaxial Differential Dispersion driver in a rigid ABS moulded enclosure and is supplied with a dedicated omnidirectional mounting bracket.

The Coaxial Differential Dispersion technology employed in the CDD5 delivers more consistent audience coverage than systems with fixed X° x Y° coverage patterns — projecting relatively more output to the rear of the audience to distribute sound evenly front-to-back, 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 in the crossover region 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 the supplied omni-directional bracket or an optional close-mount ceiling bracket.

Finished in black (RAL9005) or white (RAL9016) as standard, the CDD5 can be supplied in any RAL colour to order. The CDD5TX option incorporates a 70V/100V line transformer.

A full-range, passive two-way system, the CDD5 should be used with a compatible controller with appropriate limiter settings to provide system protection. The EQ and limiter functions of a controller such as the Martin Audio DX0.5 or DX4.0, or a Martin Audio amplifier with onboard DSP will maximise its capabilities. When used with a CSX subwoofer, crossover and EQ functions can either be performed by the DX0.5 and DX4.0 system controllers, or by an iKON amplifier.

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### Technical Specifications

#### Acoustical

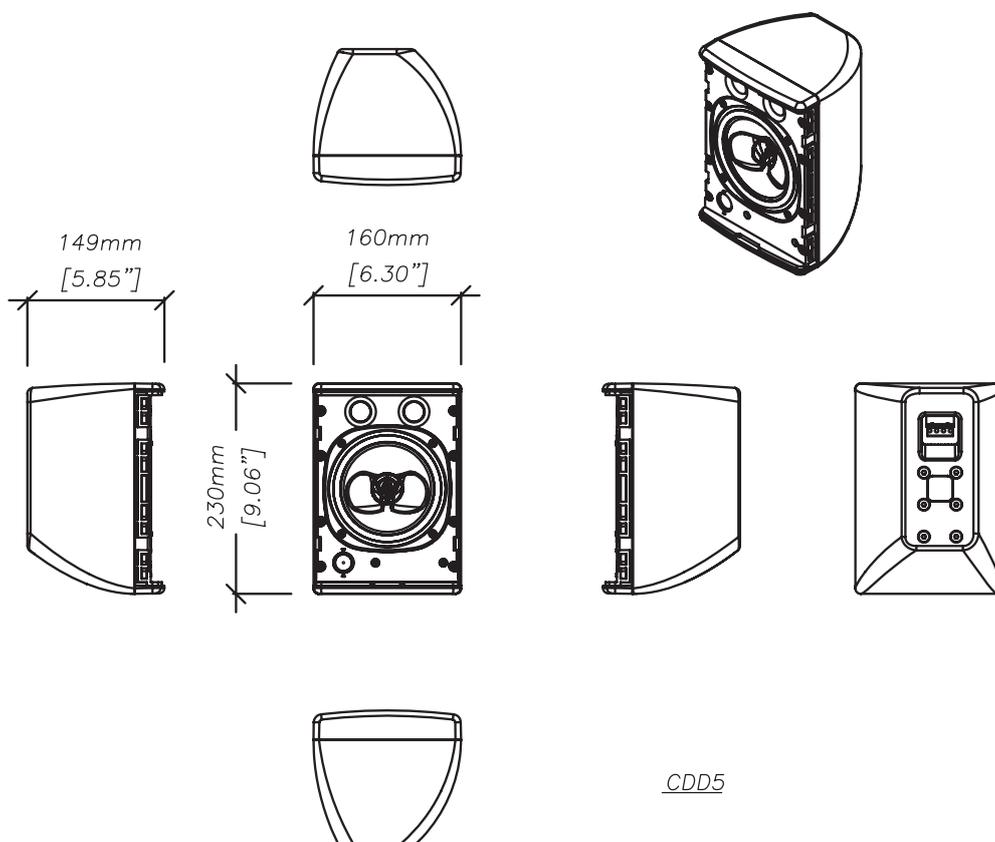
TYPE	Ultra-compact, Coaxial Differential Dispersion passive two-way system
FREQUENCY RESPONSE (5)	100Hz-20kHz $\pm$ 3dB, 10dB @ 70Hz
DRIVER	LF: 5.25" (130mm)/1.25" (32mm) voice coil, long excursion, ferrite motor system HF: 0.75" (19mm) voice coil, fabric dome with neodymium motor system
RATED POWER (2)	100W AES, 400W peak
RECOMMENDED AMPLIFIER	iK81 / VIA2502/2004
SENSITIVITY (8)	90dB
MAXIMUM SPL (9)	110dB continuous, 116dB peak
NOMINAL IMPEDANCE	8 ohms
DISPERSION (-6dB)	120°-90° horizontal, 80° vertical (user-rotatable)
CROSSOVER	2.5kHz passive
ENCLOSURE	3 litre, ABS
FINISH	Black or white
PROTECTIVE GRILLE	Black or white perforated steel with scrim cloth backing
CONNECTORS	Low profile 13A push-lock
PIN CONNECTIONS	Left to right: Input+, Input -, Link -, Link +
FITTINGS	6 x M5 inserts for wall/ceiling brackets
DIMENSIONS	(W) 160mm x (H) 230mm x (D) 149mm (W) 6.3ins x (H) 9.1 ins x (D) 5.9 ins
WEIGHT	3kg (6.6lbs)
ACCESSORIES	CDDCB5B ceiling bracket black CDDCB5W 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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