

Install

CMS 3.0

CMS 503DC LP

5" Full Range Ceiling Loudspeaker with Dual Concentric Driver for Installation Applications (Low Profile)

- Full range ceiling loudspeaker for installation applications
- 60 Watts continuous, 240 Watts peak power
- Next generation 5" Dual Concentric driver featuring Omnimagnet technology
- Torus Ogive waveguide for improved high frequency response and directivity
- Ultra-shallow depth profile for applications where cavity space is restricted
- UL 1480 certified for general signalling systems
- UL 2043 certified for air-handling spaces
- Multiple transformer taps for 70 V and 100 V line systems or 16 Ohm direct input
- Low insertion loss 30 W line transformer with easily accessible tapping switch
- Optimised for LAB GRUPPEN low impedance LUCIA amplifiers with up to 8 CMS series loudspeakers per channel
- Semi matt white finish fits unobtrusively in any environment
- Powder coated UV resistant perforated steel mesh grille with dust protection
- Removable magnetic grille for custom painting

The CMS 503DC LP is a full bandwidth 240-Watt high sensitivity loudspeaker that utilises our third generation Ceiling Monitor System technology (CMS 3.0). Thanks to an all-new proprietary 5" Dual Concentric point-source driver with Omnimagnet technology on a Torus Ogive Waveguide, the UL certified CMS 503DC LP delivers wide and consistent broadband directivity with enhanced intelligibility – plus highly accurate and linear response.



Optimised for Installation

Specifically designed with a 4 way self-aligning clamp system for fast, simple and cost effective installation, CMS 503DC LP features an ultra-shallow back can for applications where cavity space is limited, and a removable locking screw terminal connector with loop-thru functionality. A low-insertion loss 30 W transformer with convenient front panel tap switching, paintable powder coated steel mesh grille with dust protection, two tile support rails and one C-ring are all included. An Arco style grille, which conceals the entire unit for aesthetic purposes, and plaster (mud) ring are available separately.

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- Optional ARCO designer grilles available for minimal architectural impact
- Self-aligning 4 way clamp mounting system
- Mounting C-ring and ceiling tile rails included
- 10-Year Warranty Program*
- Designed and engineered in England

LAB GRUPPEN Ready

The CMS 503DC LP is finished in semi matt white and optimised for use with [LAB GRUPPEN LUCIA](#) amplifiers, which accommodate up to 8 CMS Series loudspeakers per channel.



You Are Covered

We always strive to provide the best possible Customer Experience. Our products are made in our own [MUSIC Tribe](#) factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world.

As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous [Warranty program](#).

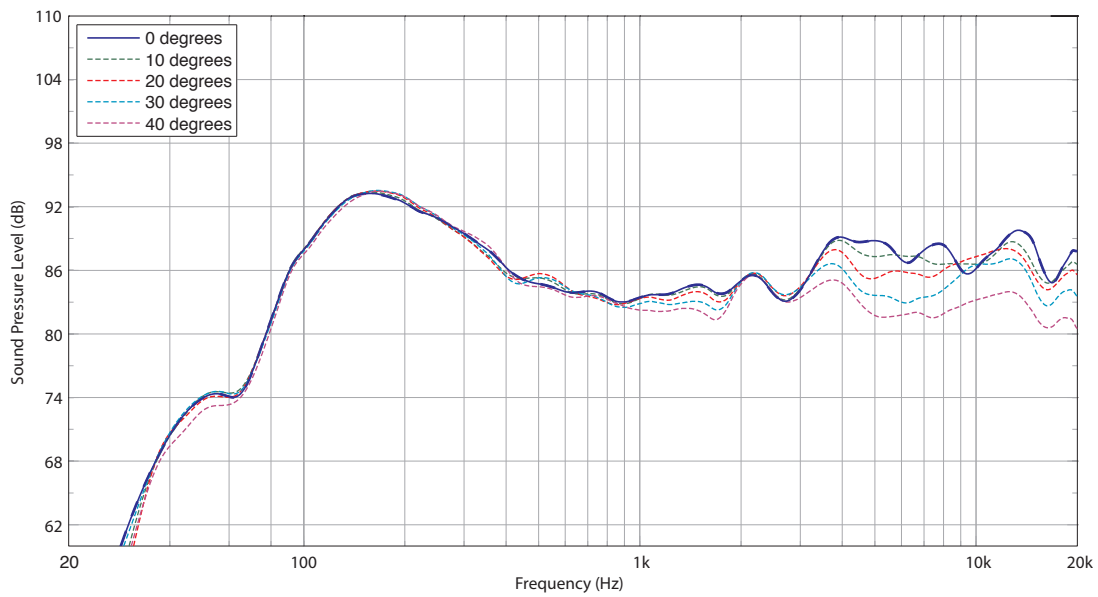
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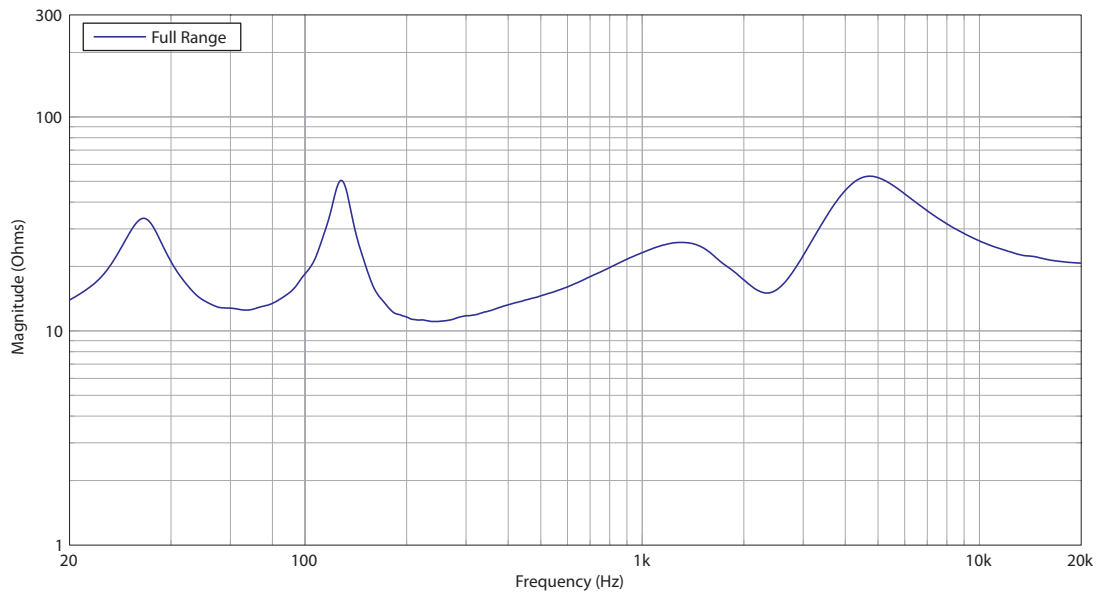
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Frequency Response Sensitivity 1 W / 1 m



Impedance



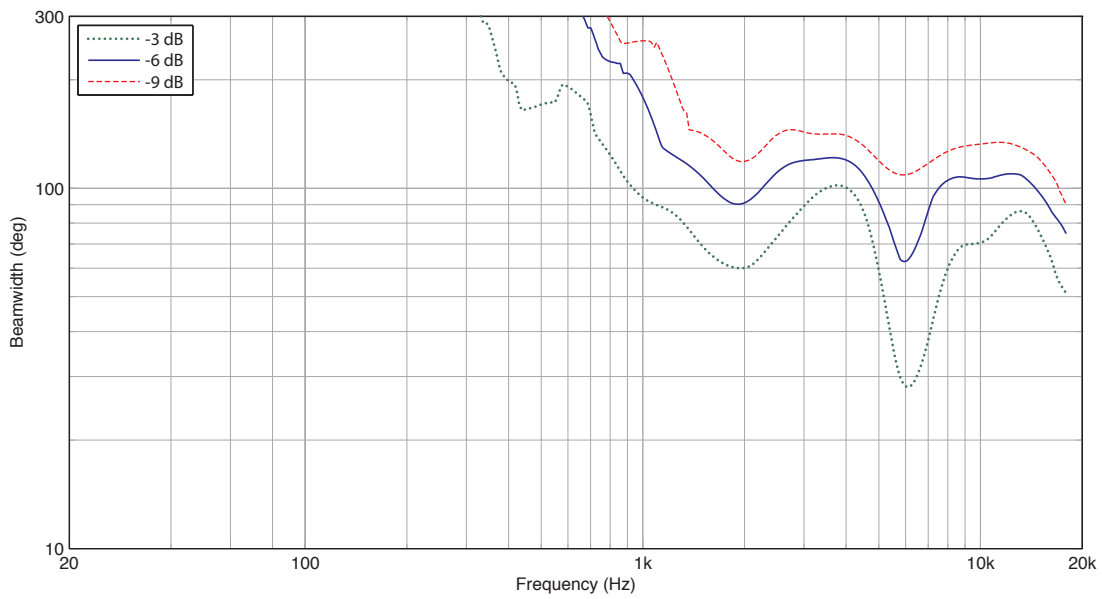
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Horizontal Beamwidth



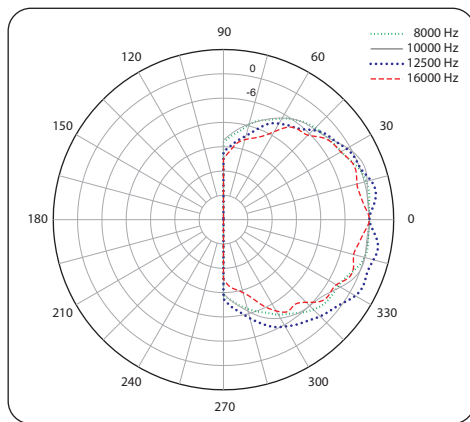
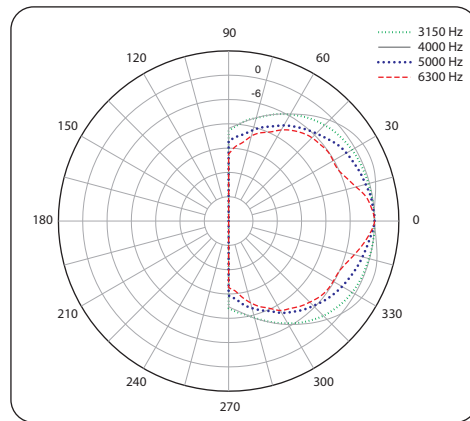
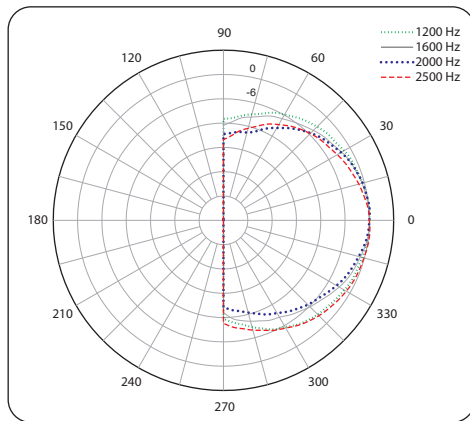
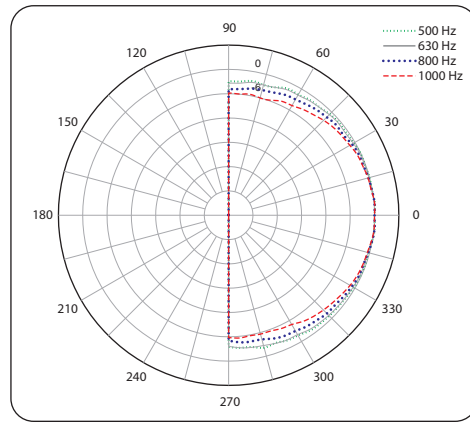
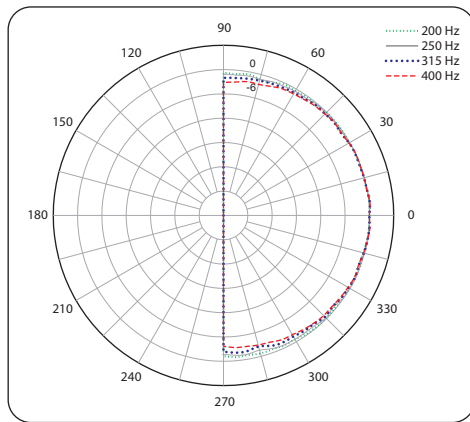
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Polar Plots



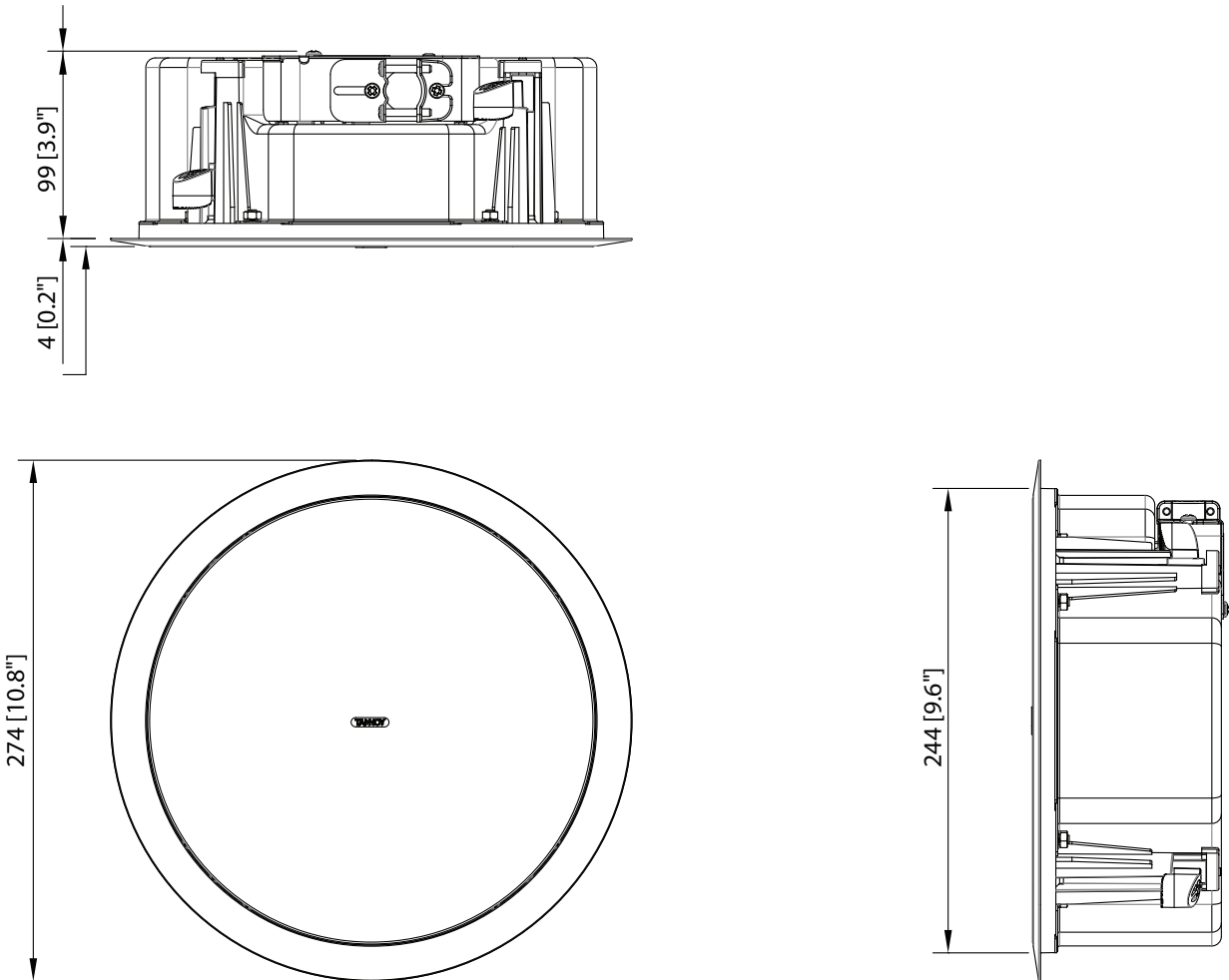
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Dimensions



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Technical Specifications

Performance

Frequency response (-3 dB) ⁽¹⁾	88 Hz - 22 kHz
Frequency range (-10 dB) ⁽¹⁾	77 Hz - 24 kHz
Frequency range (-10 dB) ⁽¹⁾	—
System sensitivity (1 W @ 1 m) ⁽²⁾	89 dB (1 W = 4 V for 16 Ohms)
Nominal coverage angle	90 degrees conical
Power handling ⁽³⁾	
Average	60 W
Programme	120 W
Peak	240 W
Recommended amplifier power	120 W @ 16 Ohms
Nominal impedance (Lo, Z)	16 Ohms
Rated maximum SPL	
Average	107 dB
Peak	113 dB
Transformer taps (via front rotary switch)	
70 V	30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 3.75 W (1320 Ω) / OFF & low impedance operation
100 V	30 W (330 Ω) / 15 W (660 Ω) / 7.5 W (1320 Ω) / OFF & low impedance operation

Transducers

Dual concentric point source driver	1 x 130 mm (5.0") Dual Concentric driver, using Omnimagnet technology
Low frequency	35 mm (1.38") voice coil, treated multi fiber paper pulp cone
High frequency	20 mm (0.79") PEI dome

Physical

Enclosure	
Backcan	Zinc plated steel
Baffle	Reflex loaded UL 94V-0 rated ABS
Grille	Steel, with weather resistant coating
Safety features	Safety ring located at rear of enclosure for load bearing safety bond
Clamping design	Security toggle clamp Min / Max clamping range 9.5 mm (0.37") / 60 mm (2.36") Recommended clamp torque: 1.5 Nm
Backcan options	
Blind mount (BM)	—
Pre install (PI)	—
Cable entry options	Cable clamp & squeeze connector for conduit up to 22 mm
Conduit knockouts on PI Backcan	—
Connectors	Removable locking connector with screw terminals with "loop through" facility
Compliance	UL-1480, UL-2043, CE

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Bezel diameter	274.0 mm (10.79")
Front of ceiling to rear of backcan	98.6 mm (3.88")
BM model: Front of ceiling to rear of backcan	—
BM model: Front of ceiling to top of safety loop	—
PI model: Front of ceiling surface to rear of speaker unit	—
PI model: Front of accessory backcan bezel to top of safety loop	—
Hole cutout diameter (all models)	253.0 mm (9.96")
Net weight (ea)	4.7 kg (10.36 lbs)
CMS 503DC BM	—
CMS 503DC PI	—
PI Backcan	—
Included accessories	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
Optional accessories	Plaster (mud) ring, Arco grille
Packed quantity	2

Notes

- (1) Average over stated bandwidth. Measured in an IEC baffle in an Anechoic Chamber
- (2) Unweighted pink noise input, measured at 1 metre on axis
- (3) Long term power handling capacity as defined in EIA - 426B test

A full range of measurements, performance data, CLF and Ease Data for CMS 503DC/CMS 503DC LP can be downloaded from www.tannoypro.com.

TANNOY operates a policy of continuous research and development. The introduction of new materials or manufacturing methods may introduce variations in actual performance; however, actual performance always will equal or exceed the published specifications, which TANNOY reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

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MADE IN CHINA

SUSPENDING THIS SYSTEM SHOULD ONLY BE DONE BY QUALIFIED PERSONS FOLLOWING SAFE INSTALLATION STANDARDS

UL LISTED Type:G US 3PHS

CE, RoHS, WEEE, and other compliance icons

SPEAKER: CMS 503DC LP

WIRING	PASSIVE
1+ / 2-	INPUT
3- / 4+	LINK
INPUT	POWER
70 V LINE	3.75, 7.5, 15, 30 W
100 V LINE	7.5, 15, 30 W
16 Ω	120 W PROGRAM

REFER TO INSTALLATION WIRING DIAGRAM IN QUICK START GUIDE

TANNOY

DESIGNED AND ENGINEERED IN THE U.K.



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