

**Install**

# CMS 3.0

## CMS 603DC BM

6" Full Range Ceiling Loudspeaker with Dual Concentric Driver for Installation Applications (Blind Mount)

- Full range ceiling loudspeaker for installation applications
- 80 Watts continuous, 320 Watts peak power
- Next generation 6" Dual Concentric driver featuring Omnimagnet technology
- Torus Ogive waveguide for improved high frequency response and directivity
- Blind Mount version supplied with acoustically enhanced zinc plated steel back can
- Integrated single unit construction for ease of installation
- 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 60 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 603DC BM is a full bandwidth 320-Watt high sensitivity loudspeaker that utilises our third generation Ceiling Monitor System technology (CMS 3.0). Thanks to an all-new proprietary 6" Dual Concentric point-source driver with Omnimagnet technology on a Torus Ogive Waveguide, the UL certified CMS 603DC BM 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 603DC BM features an acoustically enhanced zinc plated steel back can, and a removable locking screw terminal connector with loop-thru functionality. A low-insertion loss 60 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 the U.K.

### LAB GRUPPEN Ready

The CMS 603DC BM 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](#).

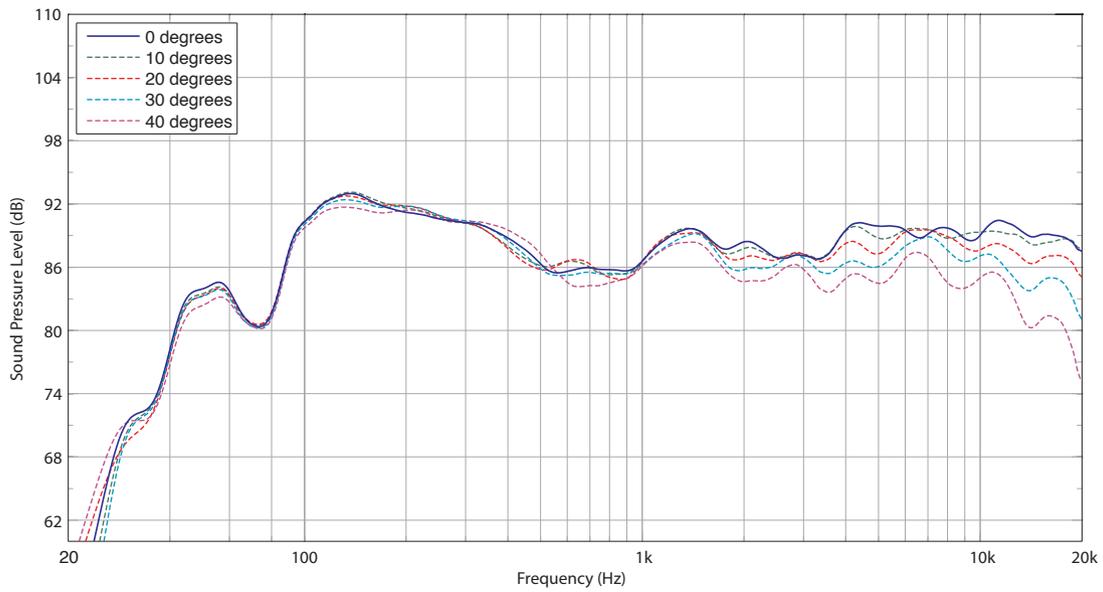
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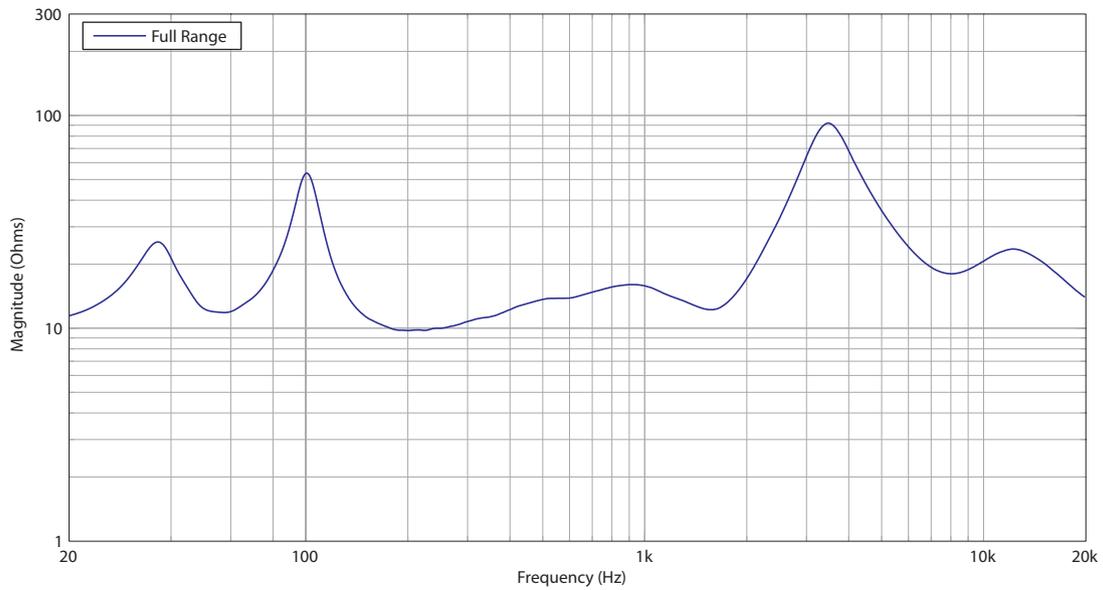
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## Frequency Response Sensitivity 1 W / 1 m



## Impedance



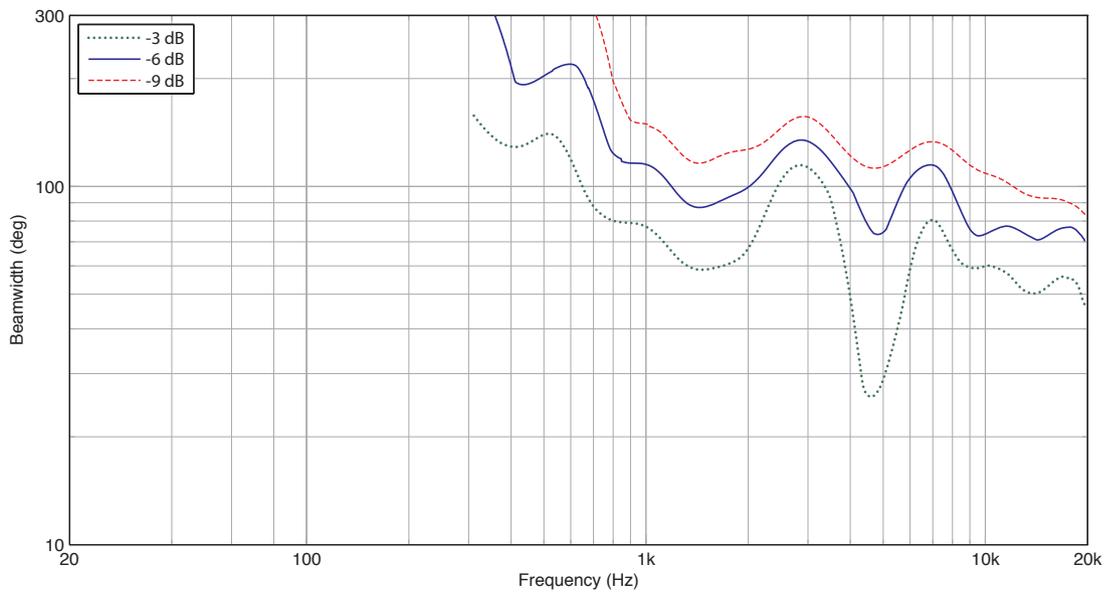
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### Horizontal Beamwidth



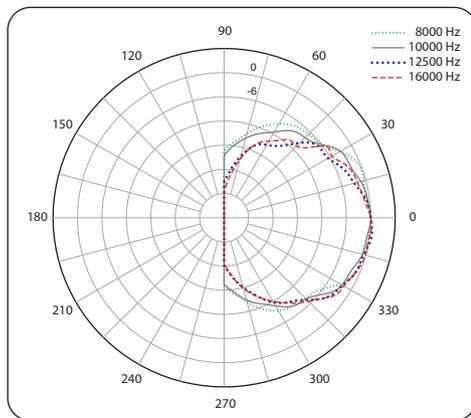
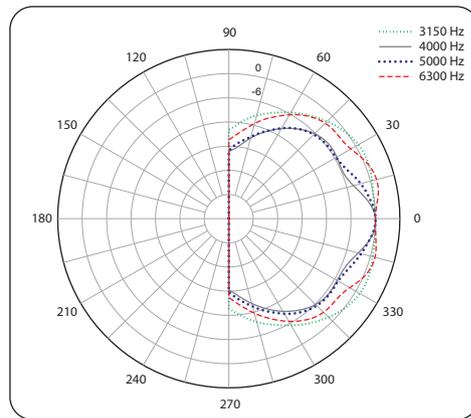
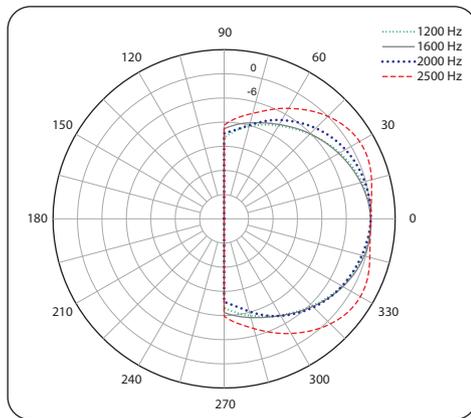
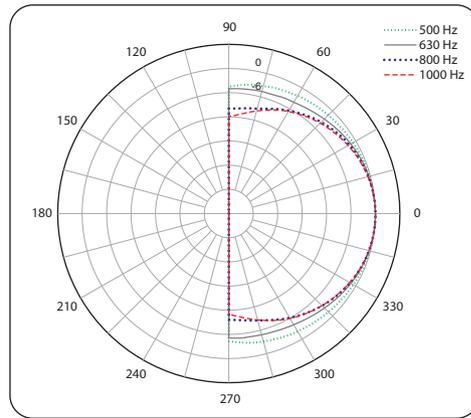
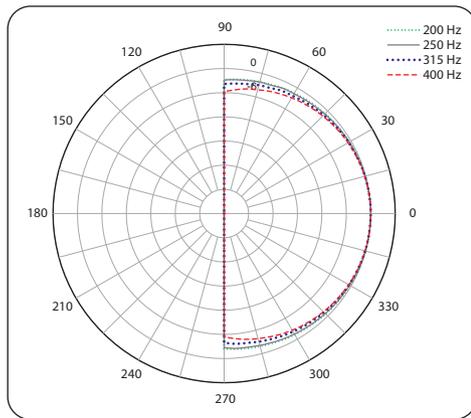
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## Polar Plots



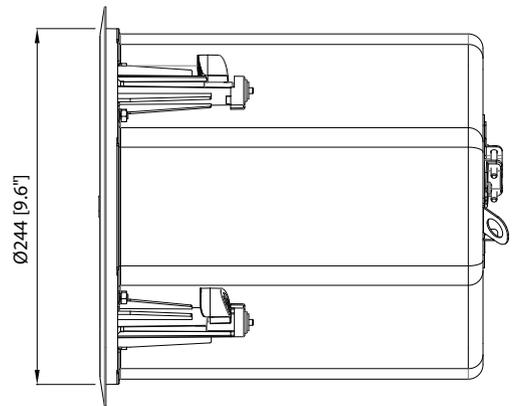
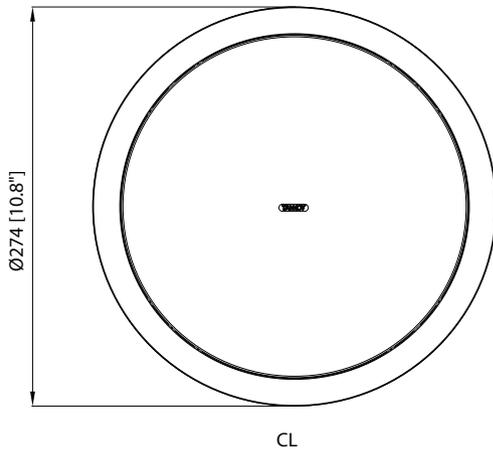
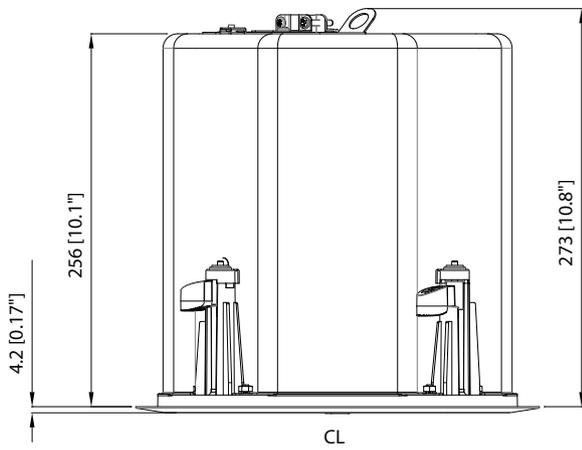
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## Dimensions



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## Technical Specifications

### Performance

Frequency response (-3 dB) <sup>(1)</sup> BM Backcan	75 Hz - 30 kHz
Frequency range (-10 dB) <sup>(1)</sup> BM Backcan	50 Hz - 30 kHz
Frequency range (-10 dB) <sup>(1)</sup> PI Backcan	46 Hz - 30 kHz
System sensitivity (1 W @ 1 m) <sup>(2)</sup>	91 dB (1 W = 4 V for 16 Ohms)
Nominal coverage angle	90 degrees conical
Coverage angle (1 kHz to 6 kHz)	—
Directivity factor (Q)	—
Directivity index (DI)	—
<b>Power handling</b> <sup>(3)</sup>	
Average	80 W
Programme	160 W
Peak	320 W
Recommended amplifier power	160 W @ 16 Ohms
Nominal impedance (Lo, Z)	16 Ohms
<b>Rated maximum SPL</b>	
Average	110 dB
Peak	116 dB
<b>Transformer taps</b> (via front rotary switch)	
70 V	60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / OFF & low impedance operation
100 V	60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) / OFF & low impedance operation
Crossover	—

### Transducers

Dual concentric point source driver	1 x 165 mm (6.5") Dual Concentric driver, using Omnimagnet technology
Low frequency	44 mm (1.75") voice coil, treated multi fiber paper pulp cone
High frequency	25 mm (1.00") PEI dome

### Physical

<b>Enclosure</b>	
Backcan	Zinc plated steel
Baffle	Reflex loaded UL 94V-0 rated ABS
Grille	Steel, with weather resistant coating
<b>Safety features</b>	Safety ring located at rear of enclosure for load bearing safety bond
<b>CMS 603ICT LS</b>	UL 1480 UUMW certification for Life Safety applications
<b>Clamping design</b>	Security toggle clamp Min / Max clamping range 9.5 mm (0.37") / 60 mm (2.36") Recommended clamp torque: 1.5 Nm
<b>Backcan options</b>	
Blind mount (BM)	Complete with fixed backcan
Pre install (PI)	Separate backcan for pre-installation
<b>Cable entry options</b>	Cable clamp & squeeze connector for conduit up to 22 mm
<b>Conduit knockouts on PI Backcan</b>	3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10")
<b>Connectors</b>	Removable locking connector with screw terminals with "loop through" facility
<b>Compliance</b>	UL-1480, UL-2043, CE

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#### Dimensions

Bezel diameter	274.0 mm (10.79")
BM model: Front of ceiling to rear of backcan	255.8 mm (10.07")
BM model: Front of ceiling to top of safety loop	273.3 mm (10.76")
PI model: Front of ceiling surface to rear of speaker unit	100.7 mm (3.96")
PI model: Front of accessory backcan bezel to top of safety loop	168.5 mm (6.60")
Hole cutout diameter (all models)	253 mm (9.96")
<b>Net weight (ea)</b>	
CMS 603DC BM	6.6 kg (14.6 lbs)
CMS 603DC PI	3.8 kg (8.37 lbs)
CMS 603ICT BM	—
CMS 603ICT PI	—
PI Backcan	3.7 kg (8.1 lbs)
<b>Included accessories</b>	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
<b>Optional accessories</b>	Plaster (mud) ring, Arco grille
<b>Packed quantity</b>	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 603DC/CMS 603ICT can be downloaded from [www.tannoypro.com](http://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 603DC BM**

WIRING	PASSIVE
1+ / 2-	INPUT
3- / 4+	LINK
INPUT	POWER
70 V LINE	7.5, 15, 30, 60 W
100 V LINE	15, 30, 60 W
16Ω	160 W PROGRAM

REFER TO INSTALLATION WIRING DIAGRAM IN QUICK START GUIDE

**TANNOY**

DESIGNED AND ENGINEERED IN THE U.K.



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