

## Install

# CMS 503ICT PI

5" Full Range Ceiling Loudspeaker with ICT Driver for Installation Applications (Pre-Install)

- Full range ceiling loudspeaker for installation applications
- 50 Watts continuous, 200 Watts peak power
- 5" ICT (Inductive Coupling Technology) point source driver for extended frequency range
- Pre-install version supplied without back can (available separately)
- High durability design for constant heavy usage in demanding applications
- 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 503ICT PI is a wide bandwidth 200-Watt high sensitivity loudspeaker that utilises our third generation Ceiling Monitor System technology (CMS 3.0). Thanks to an all-new proprietary 5" ICT (Inductive Coupling Technology) point source driver with extended frequency range, the UL certified CMS 503ICT PI delivers consistent broadband directivity with enhanced intelligibility. ICT drivers provide exceptional long-term reliability – and are ideal for constant-usage applications.



## Optimised for Installation

Specifically designed with a self-aligning 3 way clamp system for fast, simple and cost effective installation, CMS 503ICT PI also features extra clamp extension to accommodate thicker ceiling panels, and a locking design that prevents over-tightening. 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, back can, and plaster (mud) ring are available separately.

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- Optional ARCO designer grilles available for minimal architectural impact
- Self-aligning 3 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 503DC PI 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](#).

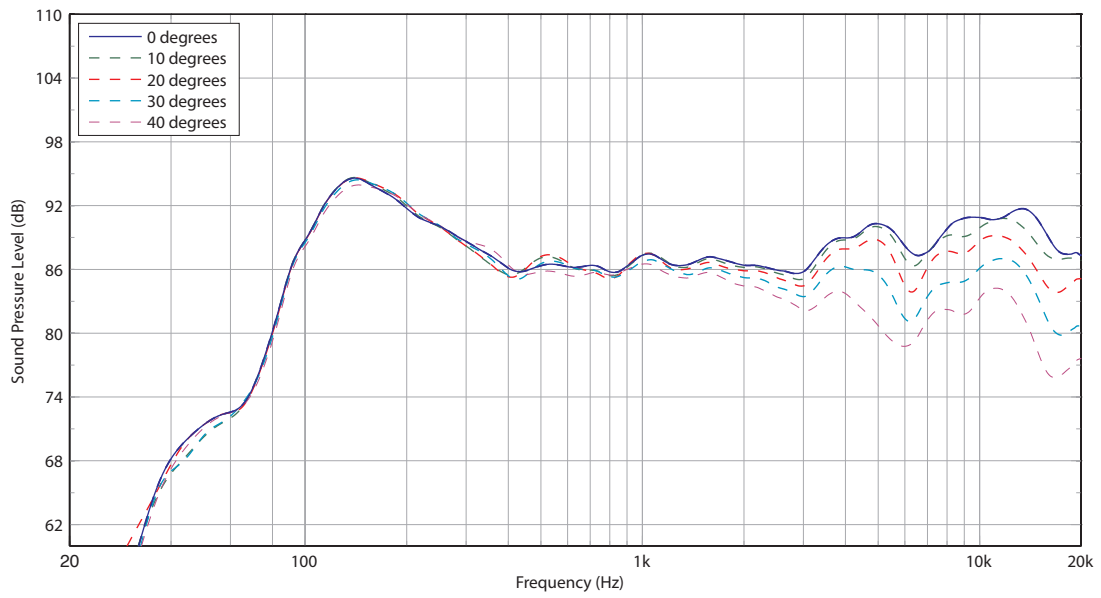


## Install

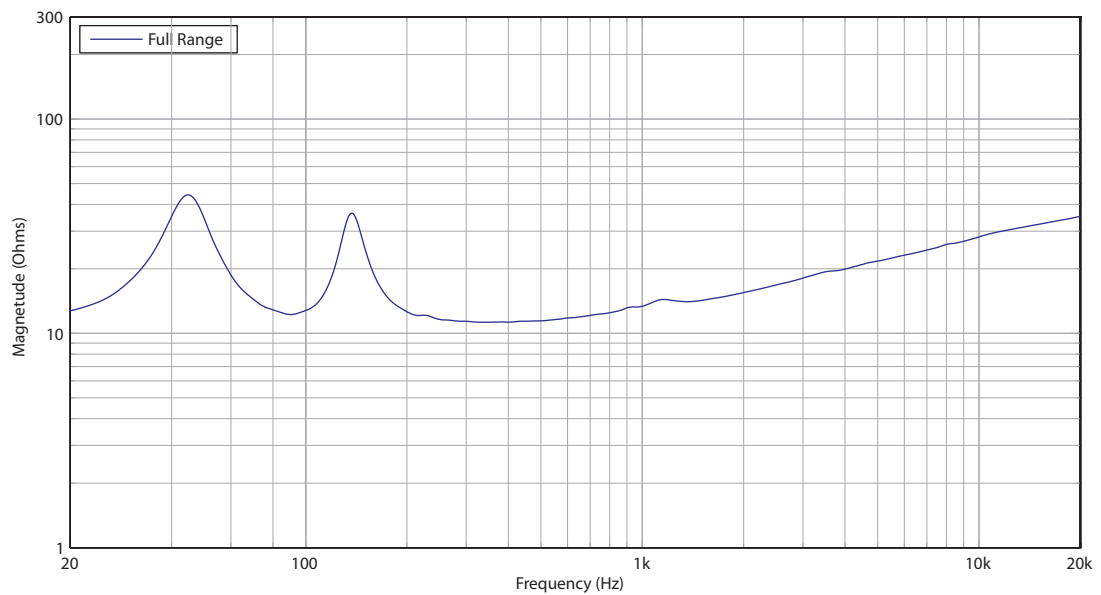
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### Frequency Response Sensitivity 1 W / 1 m



### Impedance

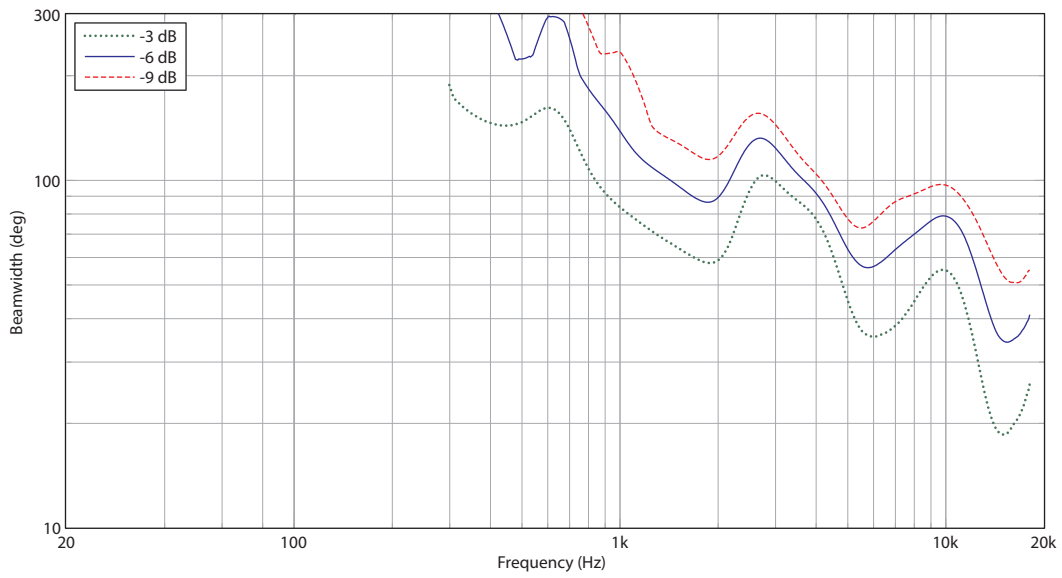


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## Horizontal Beamwidth

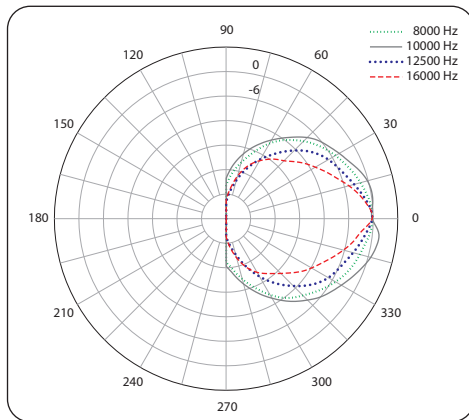
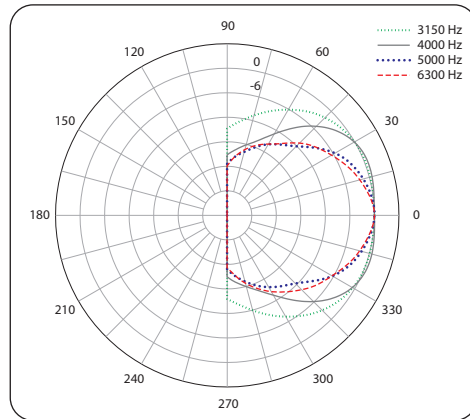
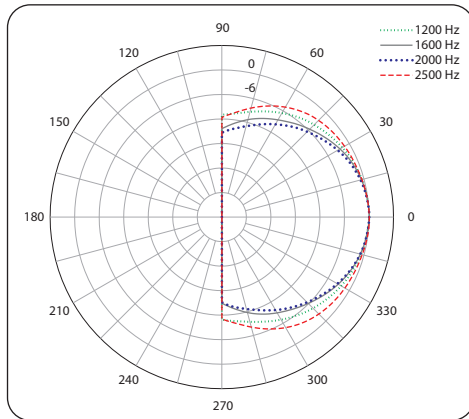
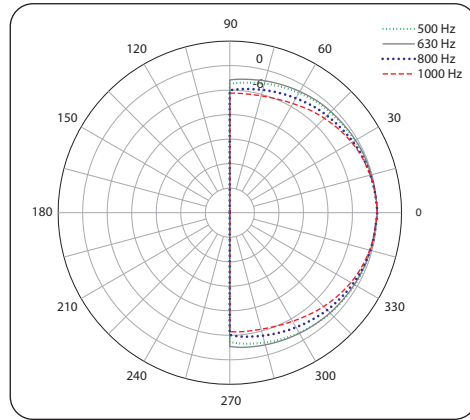
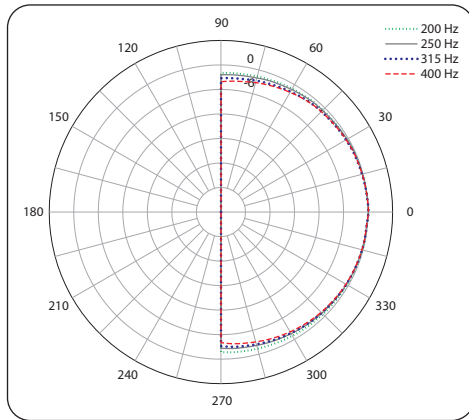


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## Polar Plots

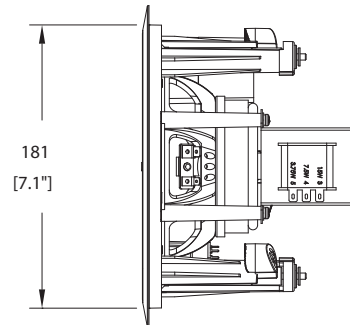
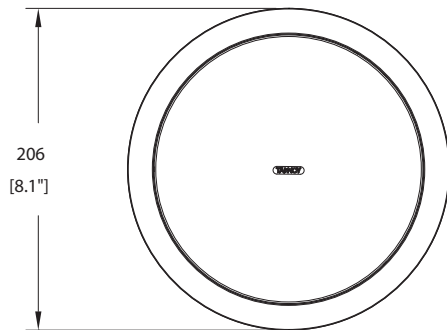
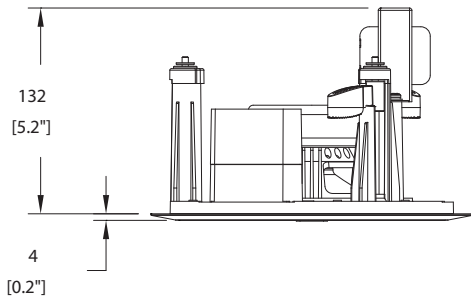


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## Dimensions



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## Technical Specifications

### Performance

Frequency range (-10 dB) <sup>(1)</sup>	71 Hz - 24 kHz PI Backcan
System sensitivity (1 W @ 1 m) <sup>(2)</sup>	89 dB (1 W = 4 V for 16 Ohms)
Nominal Coverage Angle	90 degrees conical
Coverage Angle (1 kHz to 6 kHz)	105 degrees
Directivity Factor (Q)	5.6 averaged 1 kHz to 6 kHz
Directivity Index (DI)	7.0 averaged 1 kHz to 6 kHz
<b>Power Handling</b> <sup>(3)</sup>	
Average	50 W
Programme	100 W
Peak	200 W
Recommended Amplifier Power	100 W @ 16 Ohms
Nominal Impedance (Lo, Z)	16 Ohms
<b>Rated maximum SPL</b>	
Average	106 dB
Peak	112 dB
<b>Transformer Taps</b> (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
Crossover	7 kHz inductively coupled

### Transducers

Low Frequency	130 mm (5.00") mineral loaded polypropylene
High Frequency	ICT aluminium 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>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>	Complete with fixed backcan
<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
<b>Dimensions</b>	
Bezel diameter	205.9 mm (8.11")
Front of ceiling to rear of backcan	188.5 mm (7.42")
Front of ceiling to top of safety loop	205.8 mm (8.10")
<b>Hole cutout diameter (all models)</b>	190 mm (7.48")
<b>Net Weight (ea)</b>	3.95 kg (8.70 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

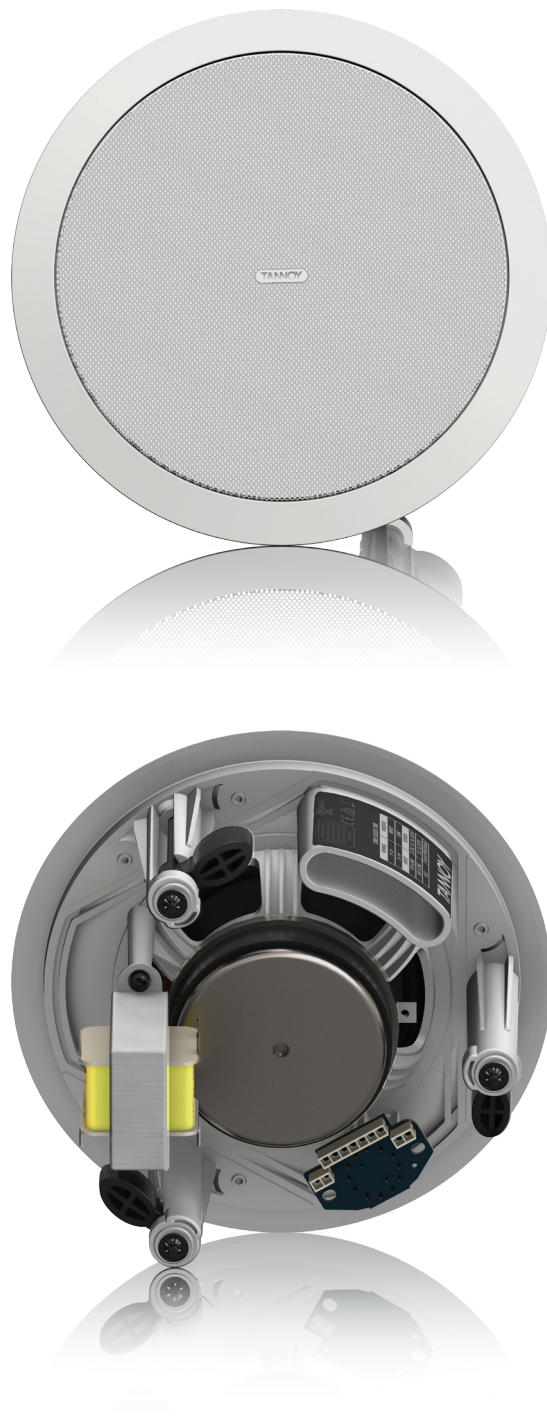
A full range of measurements, performance data, CLF and Ease Data for CMS 503ICT PI can be downloaded from [www.tannoypro.com](http://www.tannoypro.com).

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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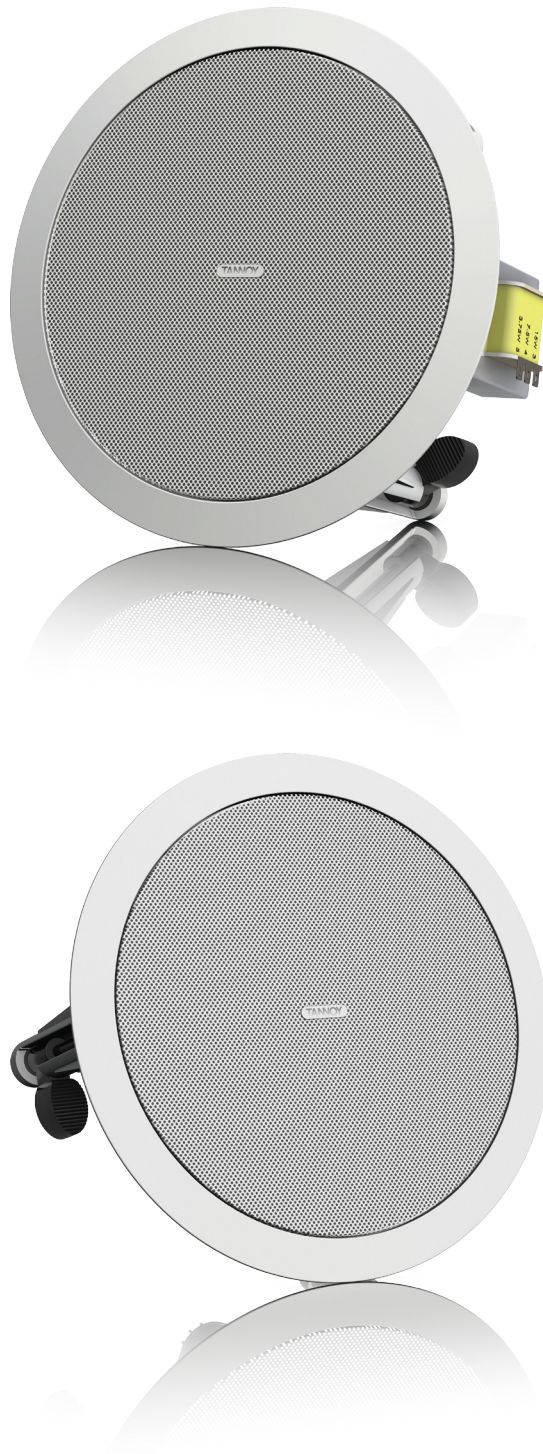




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MADE IN CHINA

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

UL LISTED Type:G 3PHS

**SPEAKER: CMS 503ICT PI**

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

REFER TO INSTALLATION WIRING DIAGRAM IN QUICK START GUIDE

DESIGNED AND ENGINEERED IN THE U.K.

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**TANNOY**



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