



Product description

The Tannoy CMS 503ICT LP is a wide bandwidth, high power-handling and high sensitivity loudspeaker built around CMS 3.0 – the third generation of Tannoy's revolutionary Ceiling Monitor System technology. Based around the standard CMS 503ICT model, but with a greatly reduced back-can depth, the ultra low-profile CMS 503ICT LP has been engineered specifically for applications where ceiling cavity dimensions are a critical limiting factor.

This specialized ceiling device has all the sonic performance of the standard CMS 503ICT, in a much shallower profile package, achieving similar back-can volume by virtue of slightly larger diameter (and hole cut-out size). The point source configuration of the Tannoy ICT™ driver's mid-bass and tweeter sections ensures a wide and controlled dispersion for optimum coverage, avoiding the significant energy losses in the vertical plane at the crossover frequency that are inherent in typical two-way designs.

The CMS 503ICT LP utilizes a 16 ohm driver, making it ideal for use in high performance low-impedance systems (with optimized performance when used in conjunction with Lab.gruppen LUCIA amplifiers). The low-insertion loss 30 W transformer features convenient front bezel switching for taps at 30 W, 15W and 7.5 W, with an additional 3.75 W tap for traditional constant voltage systems.

The CMS 503ICT LP also features extra clamp extension to accommodate thicker ceiling panels, and a locking design that prevents inadvertent over-screwing. Magnetic grille attachment enables easy removal and fitting for custom painting and tapping changes with grilles now available as either traditional style (inset in bezel) or new Arco™ style, which conceals the entire unit for architect-friendly aesthetic appeal.

The CMS 503ICT LP is a blind mount loudspeaker device, supplied with an integral back-can, ready to install as a single unit. The shallow-profile zinc plated steel back-can has an integrated, recessed termination box. The removable locking connector has screw terminals for secure wire termination and loop-thru facility. Strain relief is provided by a clamping mechanism for use with plenum-rated cable or conduit, while new spring-loaded and self-aligning clamps make for even quicker and easier installation. CMS 503ICT LP is supplied with classic grille, two tile support rails and one C-ring; Arco grille and plaster (mud) ring are available as optional accessories.

Features

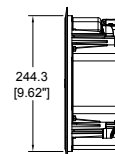
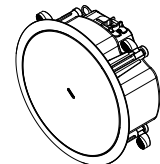
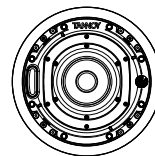
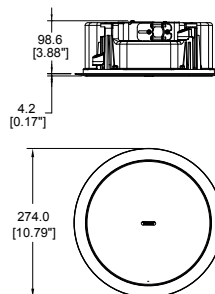
- Newly refined 130 mm (5.0") ICT transducer for greater durability and longevity
- High power & high sensitivity with extended frequency response
- Wide, controlled, constant directivity dispersion for optimum coverage
- Ultra-shallow depth profile for applications where cavity space is restricted
- Low insertion-loss, 30 W line transformer for a more powerful and dynamic performance
- Convenient front-tapping switch for settings
- Magnetically-adhering grille system for easy custom painting and optional Arco designer grilles for minimal architectural impact
- Four-clamp, self-aligning mounting system
- UV resistant baffle and grille
- Packaged with classic grille, tile rails and C-ring for quick and easy installation and simple stocking logistics

Physical data

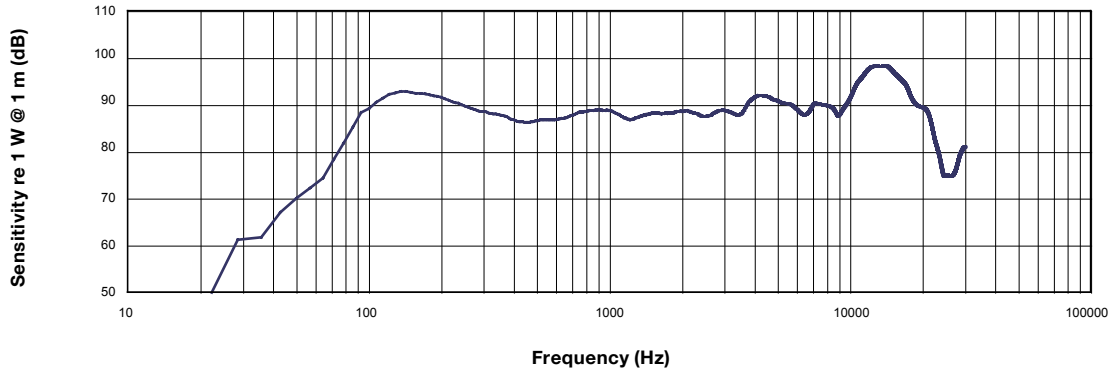
Bezel diameter:	274.0 mm (10.79")	Hole Cutout Diameter:	253.0 mm (9.96")
Front of ceiling to rear of backcan	98.6 mm (3.88")		

Applications

- Voice Alarm Systems
- Multizone Foreground Music & Paging Systems
- Boardrooms & Offices
- Business Music Systems
- Airports, Convention Centres, Hotels
- Reception / Waiting Rooms
- Houses of Worship
- Retail Outlets / Shopping Malls
- Lounges / Bars
- Cruise Ships
- Courtrooms

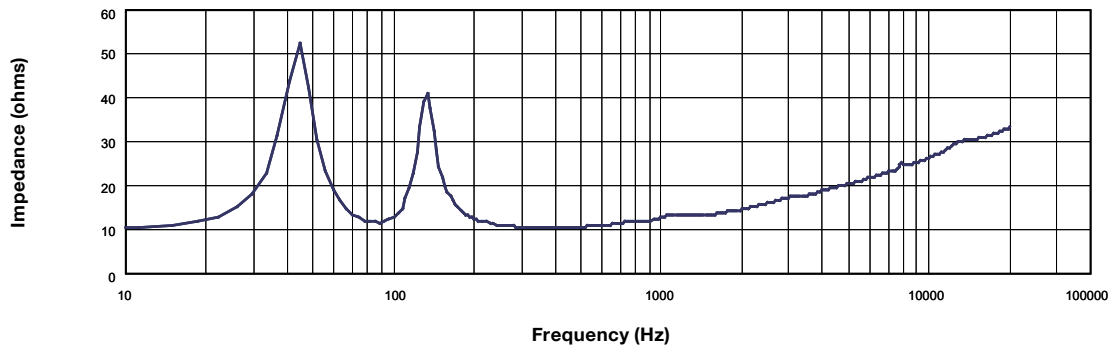


1 m on-axis Frequency Response



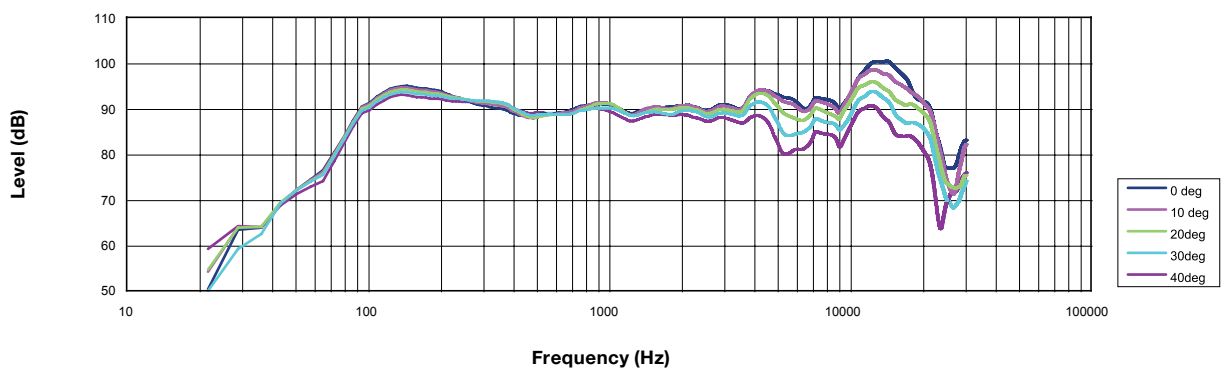
Anechoic Frequency Response

Impedance vs frequency



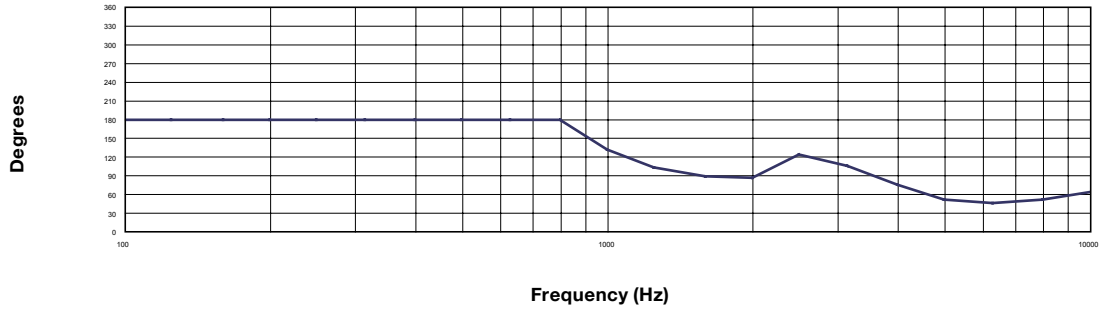
Impedance

Off-axis Frequency Response



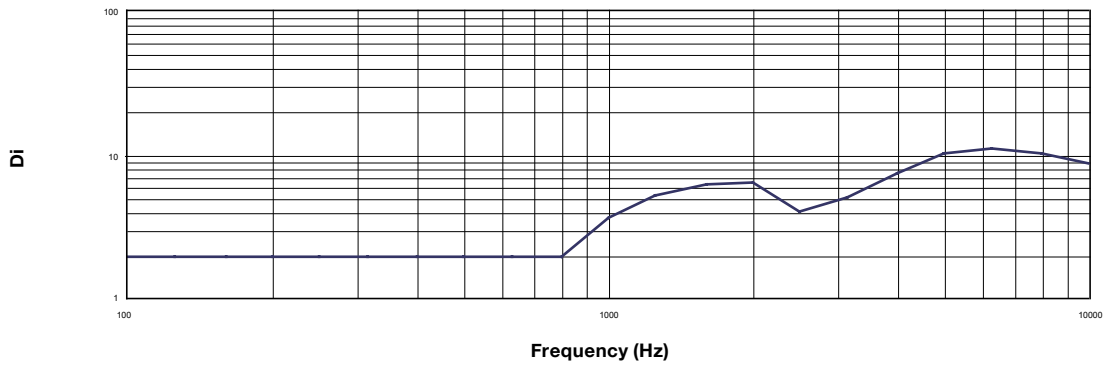
Off Axis Response

Beamwidth vs Frequency



Beamwidth

Directivity Index (DI)

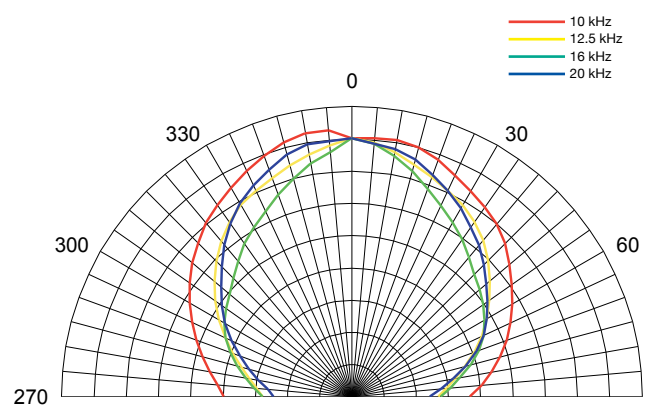
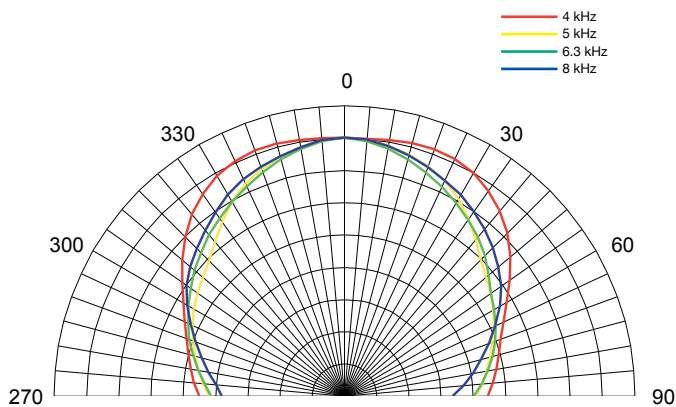
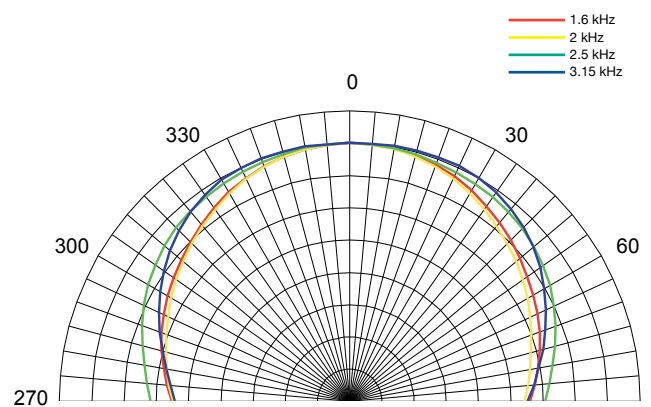
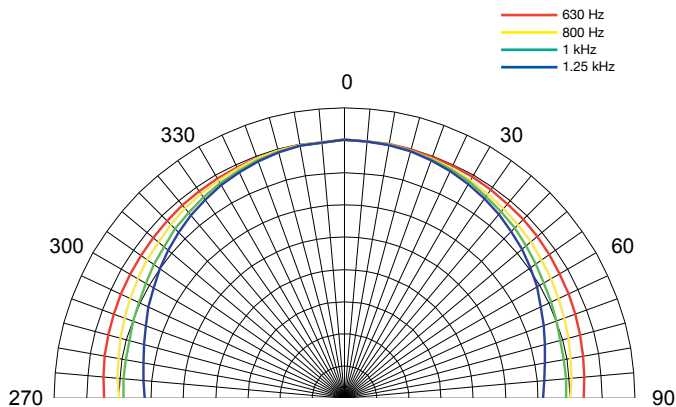
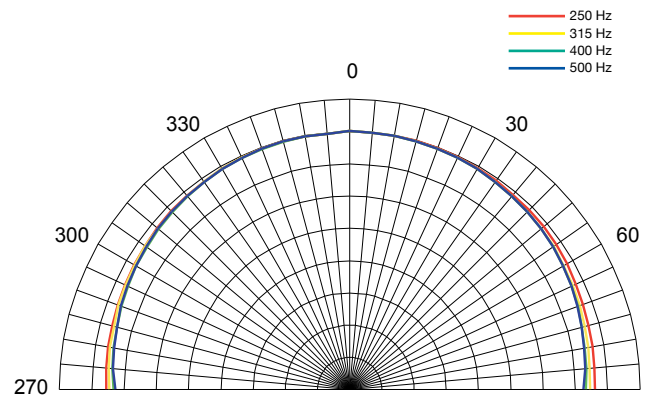
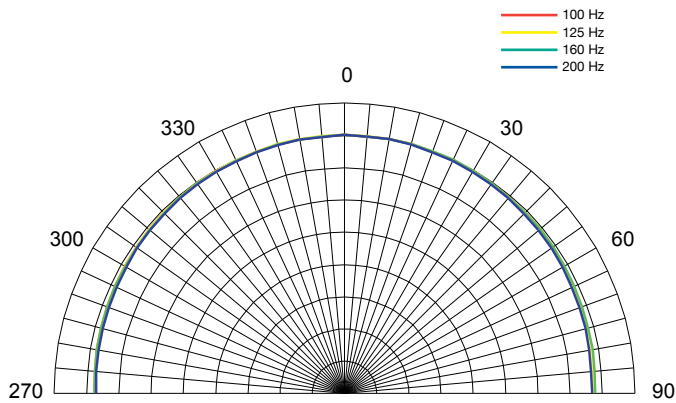


Directivity Index

Technical Data Sheet

Polar plots (1/3 octave)

CMS 503ICT LP



Technical Data Sheet

Specifications

CMS 503ICT LP

Performance

Frequency response (-3 dB) ⁽¹⁾	88 Hz - 50 kHz
Frequency range (-10 dB) ⁽¹⁾	77 Hz - 24 kHz
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	50 W
Programme	100 W
Peak	200 W
Recommended Amplifier Power	100 W @ 16 ohms
Nominal Impedance (Lo, Z)	16 ohms
Rated maximum SPL	
Average	106 dB
Peak	112 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

Low Frequency	1 x 130 mm (5.0") mineral loaded polypropylene
High Frequency	ICT

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
Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22 mm
Connectors	Removable locking connector with screw terminals with "loop through" facility
Compliance	UL-1480, UL-2043, CE
Dimensions	
Bezel diameter	274.0 mm (10.79")
Front of ceiling to rear of backcan	98.6 mm (3.88")
Hole cutout diameter	253.0 mm (9.96")
Net Weight (ea)	3.1 kg (6.83 lbs)
Included Accessories	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
Optional Accessories	Plaster (mud) ring, Arco grille
Packed Quantity	2

Ordering Information

Part Number	Colour
8001 7940 CMS 503ICT LP	White / Paintable
8001 7890 CMS 603 Arco Grille	White / Paintable



LISTED
UL-1480,
UL-2043

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 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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