Technical Data Sheet

CMS 603ICT PI



Features

- Newly refined 165 mm (6.5") ICT transducer for greater durability and longevity
- High power & high sensitivity with extended frequency response
- Wide, controlled, constant directivity dispersion for optimum coverage
- Does not suffer from energy loss in the vertical plane at crossover as with two-way discrete designs
- Low insertion-loss, 60 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

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

Product description

The Tannoy CMS 603ICT PI 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. Incorporating a newly refined version of Tannoy's proprietary ICT™ point-source driver, the CMS 603ICT PI has been re-engineered for optimum compatibility with Lab.gruppen commercial amplifiers while also delivering consistent broadband directivity, precise articulation for voice and music, and exceptional long-term reliability.

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 significant energy losses in the vertical plane at the crossover frequency, a flaw inherent in typical two-way designs. The ICT (Inductive Coupling Technology) drive unit also addresses two common component failures in background music systems: the tweeter and the crossover. Use of wireless electromagnetic coupling to drive the tweeter means that no crossover is required, making the ICT drive unit exceptionally reliable and ideal for applications where constant heavy usage is the norm. The mineral-loaded polypropylene cone material and nitrile rubber surround further enhance durability and long-term reliability.

The CMS 603ICT PI utilizes a 16 ohm driver, making it ideal for use in high performance lowimpedance systems (with optimized performance when used in conjunction with Lab.gruppen LUCIA amplifiers). The low-insertion loss 60 W transformer features convenient front bezel switching for taps at 60 W, 30 W and 15 W, with an additional 7.5 W tap for traditional constant voltage systems.

The CMS 603ICT PI 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.

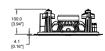
The CMS 603ICT PI is supplied without a back-can. All models are supplied with classic grille, two tile support rails and one C-ring; Arco grille back-can and plaster (mud) ring are available as optional accessories.

Physical data

Bezel diameter: Front of ceiling surface to rear of speaker unit: 274.0 mm (10.79")

100.0 mm (3.94")

Hole Cutout Diameter: 253.0 mm (9.96") Front of accessory backcan bezel to top 168.5 mm (6.60") of safety loop:









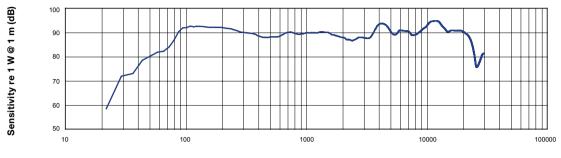




Technical Data Sheet Performance measurements

CMS 603ICT PI

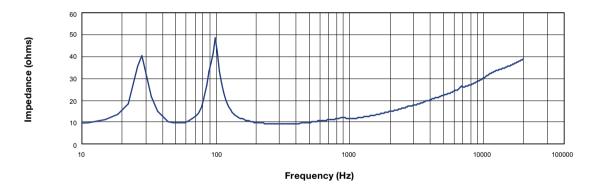
1 m on-axis Frequency Response



Frequency (Hz)

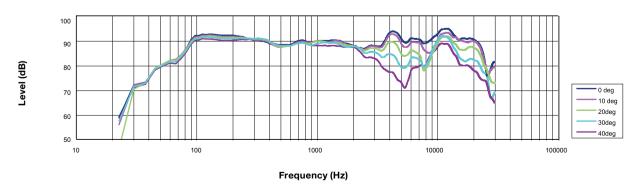
Anechoic Frequency Response

Impedance vs frequency



Impedance

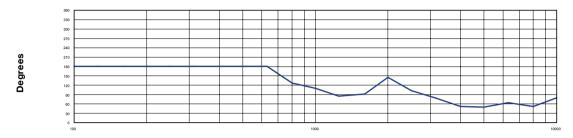
Off-axis Frequency Response





CMS 603ICT PI

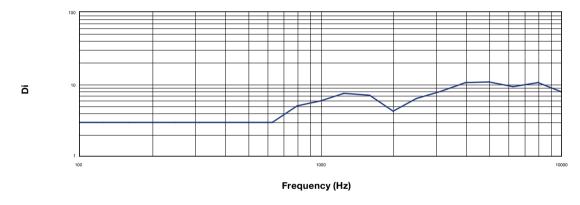
Beamwidth vs Frequency



Frequency (Hz)

Beamwidth

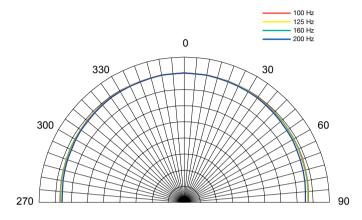
Directivity Index (DI)

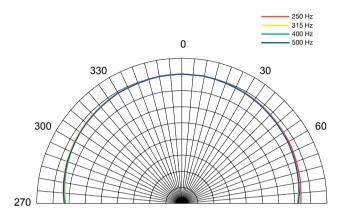


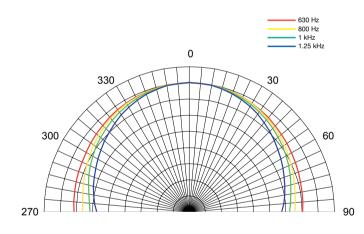
Directivity Index

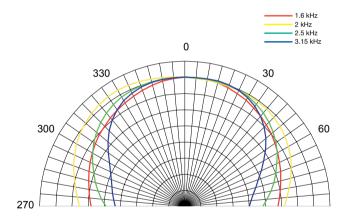
Technical Data Sheet Polar plots (1/3 octave)

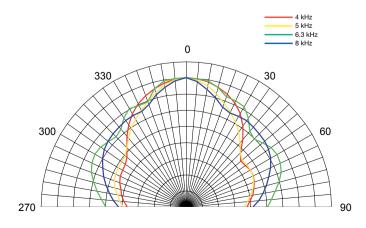
CMS 603ICT PI

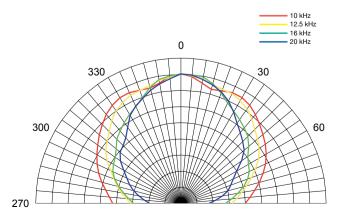












Technical Data Sheet Specifications

CMS 603ICT PI

Performance

Frequency range (-10 dB) (1) System sensitivity (1 W @ 1 m) (2) Nominal Coverage Angle Coverage Angle (1 kHz to 6 kHz) **Directivity Factor (Q)** Directivity Index (DI) Power Handling (3) Average Programme Peak **Recommended Amplifier Power** Nominal Impedance (Lo, Z) Rated maximum SPI Average Peak Transformer Taps (via front rotary switch) 70 V 100 V

46 Hz - 24 kHz 91 dB (1 W = 4 V for 16 Ohms) 90 degrees conical 92 degrees 7.1 averaged 1 kHz to 6 kHz 7.9 averaged 1 kHz to 6 kHz 60 W 120 W 240 W 120 W @ 16 ohms 16 ohms

109 dB 115 dB

60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / OFF & low impedance operation 60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) / OFF & low impedance operation 7 kHz inductively coupled

165 mm (6.50") mineral loaded polypropylene

ICT aluminium dome

Crossover Transducers

Low Frequency High Frequency

Physical

Enclosure Backcan Baffle Grille Safety Features Clamping Design **Backcan Options Cable Entry Options Conduit Knockouts on PI Backcan** Connectors Compliance Dimensions Bezel diameter Front of ceiling surface to rear of speaker unit Front of accessory backcan bezel to

Front of accessory backcan bezel to top of safety loop Hole cutout diameter (all models) Net Weight (ea)

CMS 603ICT PI PI Backcan Included Accessories Optional Accessories

Packed Quantity

Zinc plated steel Reflex loaded UL 94V-0 rated ABS Steel, with weather resistant coating Safety ring located at rear of enclosure for load bearing safety bond Security toggle clamp Min / Max clamping range 9.5 mm (0.37") / 60 mm (2.36") Recommended clamp torque: 1.5 Nm Separate backcan for pre-installation Cable clamp & squeeze connector for conduit up to 22 mm 3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10") Removable locking connector with screw terminals with "loop through" facility UL-1480, UL-2043, CE 274.0 mm (10.79") 100.0 mm (3.94") 168.5 mm (6.60") 253 mm (9.96") 2.64 kg (5.82 lbs) 3.68 kg (8.11 lbs)

C-Ring, tile-bridge kit, paint mask, cut-out template, grille Plaster (mud) ring, Arco grille

Ordering Information Part Number	Colour
8001 7530	
CMS 603ICT PI	White / Paintable
8001 4181	
CMS 603	Zinc Plated
Plaster (Mud) Ring	Steel
8001 7560	
CMS 603 PI Backcan	Zinc Plated Steel
8001 7890	
CMS 603 Arco Grille	White / Paintable

CE



Notes:

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

A full range of measurements, performance data, CLF and Ease™ Data for CMS 603ICT PI 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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