CMS 3.0 Series

In-Ceiling **Loudspeakers**







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1. Introduction

Thank you for purchasing this Tannoy Ceiling Monitor System product. Designed for both speech and music program material, the Tannoy CMS range provides exceptional sonic quality and long-term reliability in all ceiling-mount applications. The CMS 3.0 DC series features new 16 ohm Dual Concentric[™] drivers for improved performance and prolonged service life.

2. Unpacking

Every Tannoy product is carefully inspected before shipment. After unpacking, please inspect your product to ensure no damage has occurred in transit. In the unlikely event of damage, please notify your dealer and retain all shipping materials as your dealer may require return shipment.

All CMS loudspeakers are shipped in pairs and provided with the following accessories as standard: C-ring, tile-bridge kit, cut-out template and paint mask. A plaster (mud) ring is available as an optional accessory.

3. Safety Notices

Some regional construction codes require the use of a secondary method of securing loudspeakers in the ceiling to provide security of a back-up support. A secondary support line should be attached from the safety loop on the rear of the product to a source point on the ceiling. For PI models, the secondary support line should be attached from the back of the driver chassis to a source point on the ceiling. Please consult the relevant construction codes in your region.

When using a power driver to install the product, it is essential to use the correct torque level settings to avoid over-tightening and damage to the ceiling material or clamps. Recommended torque setting: 1.5 Nm

Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers.

The CMS 603 ICT LS is UL-1480, category UUMW, for use with non-DC supervised systems.

Electrical Safety Notice: To comply with the standard UL-1480, metal-clad flexible conduit (BX) is required for connection to the terminal block for proper earth grounding.

In order to comply with UL regulations, the PI backcan must always be used with the CMS PI models. SAFETY NOTE:

In order to comply with the relevant fire safety regulations (ie. BS 5839:1998), it is required that in the event of fire, that failure of the circuit to which the loudspeaker is connected does not occur before evacuation of the building is complete. Suitable measures include:

- a) use of terminal blocks (for connection to primary) with a melting point of not less than 650°C, for example constructed from ceramic materials;
- b) use of terminal blocks of a lower melting point but protected with thermal insulation;
- c) use of terminal blocks such that, on melting, an open-circuit or a short-circuit does not occur.

4. Product Feature Identification

IMPORTANT NOTE: Drawings for each loudspeaker below are generic and apply to the loudspeaker types specified. Some variations will be apparent in some models, but differences are not critical for installation purposes except as noted.

4.1. Blind Mount



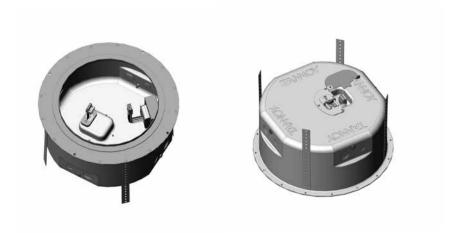
The blind-mount models are supplied with a pre-fitted backcan. Above applies to all models with a "BM" suffix as well any others that do NOT have a "PI" suffix.

4.2. Pre-install



A pre-install (PI) unit is shown without the optional pre-install backcan.

4.3. Pre-install backcan

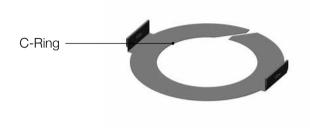


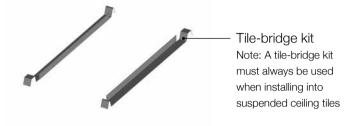
Optional pre-install (PI) backcan for PI models.

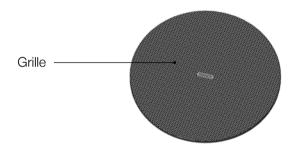
NOTE: The CMS 603DC/ICT and CMS 803DC models have the transformer pre-attached to the inside of the backcan. The CMS 503DC/ICT has the transformer pre-attached to the loudspeaker assembly.

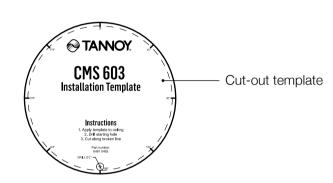
5. Accessories

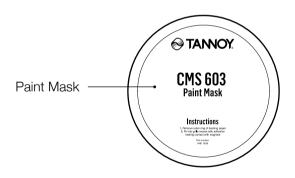
Standard Accessories



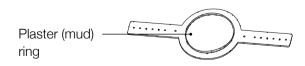








Optional Accessories





60 W Transformer Note: For use with CMS 803 PI in distributed lines without backcans.

6. Installation

6.1. Installation Guide for Suspended Ceilings

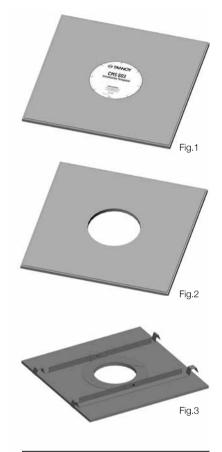
- 1. Remove the ceiling tile from its frame and place it on a flat surface. Position the cutout template (self adhesive backed) on the tile. (Fig.1)
- 2. Cut out the hole in the ceiling tile using a pad saw following the broken line indicated on the template (Fig.2)
- 3. Place the C-Ring and tile-bridge on top of the ceiling panel, aligning the C-Ring over the hole, and screw the C-Ring to the tile bridge using the fixings provided. (Fig.3)
- 4. Go to section 7 for instructions on wiring and set-up instructions.
- 5. Slide the speaker assembly through the hole. Turn the screws (denoted "Screw Fix") clockwise on the front of the speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved. (NOTE: Screws have a PoziDriv head; use of a PoziDriv driver is recommended). If using a power driver, Tannoy recommends a torque setting of 1.5 Nm. (Fig.4)

DO NOT OVERTIGHTEN!

6. Attach the nylon safety to the hooks on the front baffle before attaching the grille by presenting it to the speakers and allowing the magnets to pull it into position (Fig.5). (With the CMS 403DCe/ICTe, the grille is already fitted to the product.)

NOTE ON INSTALLATION OF CMS 403DCe/ICTe:

Before tightening the screws in step 5, swivel the speaker in the desired direction. When the screws are tightened, the speaker will lock into position. Replace the front trim to conceal the mounting screws.







6.2. Installation Guide for Sheetrock Ceilings

- 1. Position the cutout template (self adhesive backed) on the ceiling. (Fig.1)
- 2. Cut out the hole in the ceiling using a pad saw following the broken line indicated on the template then slide the C-Ring into the ceiling, aligning it over the cut-out hole. (Fig.2)
- 3. Go to section 7 for wiring and set-up instructions then return to point 4 below.
- 4. Slide the speaker assembly through the hole. Turn the screws (denoted "Screw Fix") clockwise on the front of the speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved. (NOTE: Screws have a PoziDriv head; use of a PoziDriv driver is recommended). If using a power driver, Tannoy recommends a torque setting of 1.5 Nm. (Fig.3)

DO NOT OVERTIGHTEN!

5. Attach the nylon safety to the hooks on the front baffle before attaching the grille by presenting it to the speakers and allowing the magnets to pull it into position (Fig.4). (With the CMS 403DCe/ICTe, the grille is already fitted to the product.)

NOTE ON INSTALLATION OF CMS 403DCe/ICTe:

Before tightening the screws in step 4, swivel the speaker in the desired direction. When the screws are tightened, the speaker will lock into position. Replace the front trim to conceal the mounting screws.









6. Installation

6.3. Installation Guide for Optional Plaster Ring

An optional plaster (mud) ring bracket is available from Tannoy. This bracket is designed to be pre-installed into newly constructed, non-suspended ceilings.

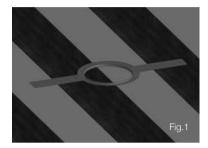
- 1. Nail or screw the plaster ring to the joists. (Fig.1)
- 2. Lay the speaker wiring to where the speaker will be fitted and complete the plastering work on the ceiling. (Fig.2)
- 3. Go to section 7 for instructions on wiring then return to point 4 below.
- 4. Slide the speaker assembly through the hole. Turn the screws (denoted "Screw Fix") clockwise on the front of the speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved. (Note: Screws have a PoziDriv head; use of a PoziDriv driver is recommended). If using a power driver, Tannoy recommends a torque setting of 1.5 Nm. (Fig.3)

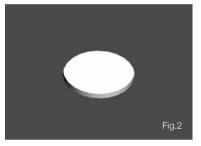
DO NOT OVERTIGHTEN!

5. Attach the nylon safety to the hooks on the front baffle before attaching the grille by presenting it to the speakers and allowing the magnets to pull it into position (Fig.4). (With the CMS 403DCe/ICTe, the grille is already fitted to the product.)

NOTE ON INSTALLATION OF CMS 403DCe/ICTe:

Before tightening the screws in step 4, swivel the speaker in the desired direction. When the screws are tightened, the speaker will lock into position. Replace the front trim to conceal the mounting screws.









6.4. Installation Guide for Optional Pre-Installation Backcan (PI Models Only)

An optional pre-install backcan is available for all pre-install (PI) models. The backcan is designed for pre-installation in newly constructed, non-suspended ceilings.

NOTE: The CMS 603DC/ICT and CMS 803DC models have the transformer pre-attached to the inside of the backcan; the CMS 503DC/ICT models have the transformer pre-attached to the loudspeaker assembly.

1. Attach the backcan to a safe and secure fixing point. This can be done in a number of ways:

METHOD 1: Fix the backcan to a secure fixing point by using suitable fixings with the 4 fixing holes provided on the PI backcan. (Fig.1)

METHOD 2: Secure the backcan to a safe and secure fixing point using suitable fixings with the flexible straps that are attached to the PI backcan. (Fig.2)



Fig.



Fig.2

METHOD 3:

a. Attach the PI backcan to the optional pre-mount ring (plaster ring) using the fixings provided with the pre-mount ring. (Fig.3)



Fig.3



Fig.4

b. Next, secure the wings of the pre-mount ring to a safe and secure fixing point by using suitable fixings. (Fig.4)

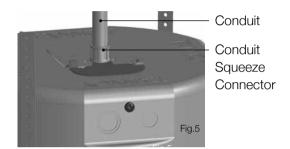
Please turn over

6. Installation

6.4. Installation Guide for Optional Pre-Installation Backcan (PI Models Only)

2. Attach the conduit to the installed backcan. This can be done in two ways:

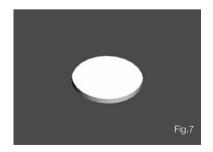
METHOD 1: You can use the clamp at the back of the pre-install backcan. The product will accept a squeeze connector with a thread size of up to 22 mm: To remove the cable clamp, simply unscrew the threaded washer (under the wiring cover) which holds the cable clamp in place and replace it with a conduit squeeze connector. (Fig.5)



METHOD 2: You can use any of the three knock-out points at the sides of the PI backcan (19 mm, 22 mm or 28 mm diameter). (Fig.6)



- 3. If conduit is not chosen as the wiring method, run an approved speaker cable to the installed can. Terminate in the top mounted cable clamp or with an approved cable connector in one of the three knock-out points at the sides of the PI backcan.
- 4. Cut hole in the proper location in the ceiling using a pad saw. Place the pre-install backcan over the hole. (Fig.7)



6.4. Installation Guide for Optional Pre-Installation Backcan (PI Models Only)

- 5. Go to section 7 for instructions on wiring and setting up then return to point 6 below.
- 6. Slide the speaker assembly through the hole. Turn the screws (denoted "Screw Fix") clockwise on the front of the speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved. (NOTE: Screws have a PoziDriv head; use of a PoziDriv driver is recommended). If using a power driver, Tannoy recommends a torque setting of 1.5 Nm. (Fig.8)



DO NOT OVERTIGHTEN!

7. Attach the nylon safety to the hooks on the front baffle before attaching the grille by presenting it to the speakers and allowing the magnets to pull it into position. (Fig.9)



7. Wiring and Setting Up

- 1. Open the wiring cover (if applicable) and locate the Euro-type connector plug and socket at the back of the speaker. (Fig.1)
- 2. For connection to an amplifier, use Pins 1 and 2 (Fig.2):
 - Pin 1 is positive
 - Pin 2 is negative

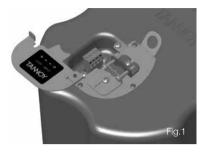
For connection to additional speakers in a distributed line, Pins 3 and 4 are in parallel where:

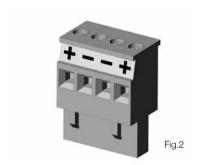
- Pin 3 is negative
- Pin 4 is positive
- 3. Close the wiring cover and tighten both screws on the cable clamp (if applicable).
- 4. Use the rotary switch on the front of the unit to select low impedance (LoZ) mode or high impedance (70 V or 100 V) for distributed applications.

THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

CMS 403DCe/ICTe and CMS 503DC/ICT models (all variants) use a 30 W transformer. In distributed line applications, the transformer can be tapped at 30 W, 15 W and 7.5 W, with an additional 3.75 W tap for 70 V line systems. (Fig.3)

CMS 603DC/ICT and CMS 803DC models (all variants) use a 60 W transformer. In distributed line applications, the transformer can be tapped at 60 W, 30 W and 15 W, with an additional 7.5 W tap for 70 V line systems. (Fig.4)



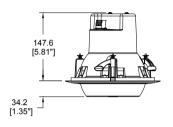


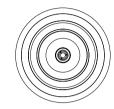




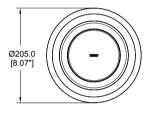
CMS 403DCe

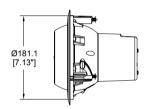
Hole Cut-out Size: 187 mm

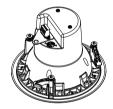






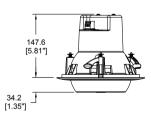


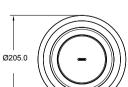


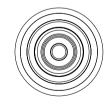


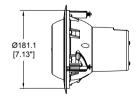
CMS 403ICTe

Hole Cut-out Size: 187 mm







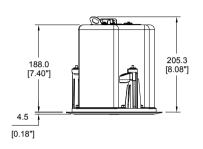






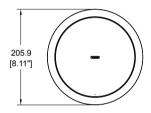
CMS 503DC BM

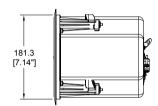
Hole Cut-out Size: 190 mm







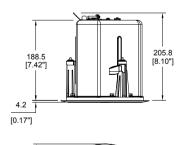


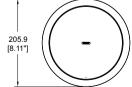




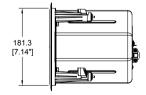
CMS 503ICT BM

Hole Cut-out Size: 190 mm







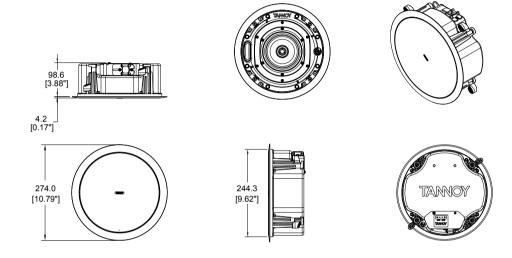






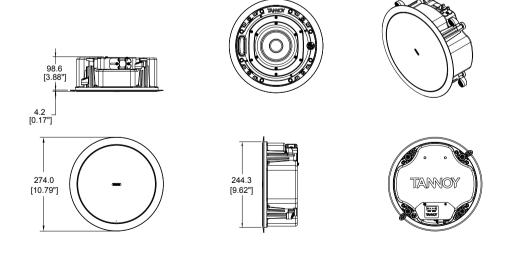
CMS 503DC LP

Hole Cut-out Size: 253 mm



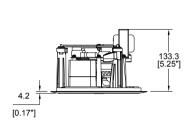
CMS 503ICT LP

Hole Cut-out Size: 253 mm



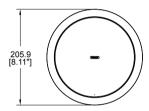
CMS 503DC PI

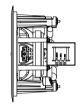
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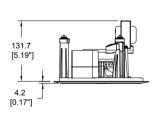






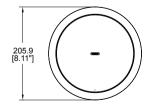
CMS 503ICT PI

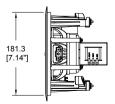
Hole Cut-out Size: 190 mm





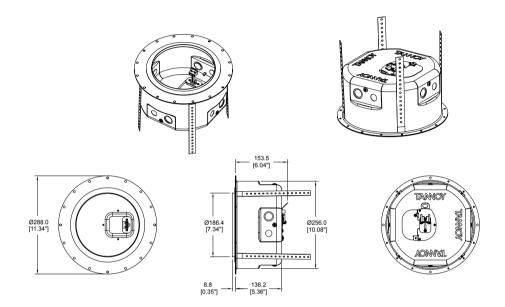




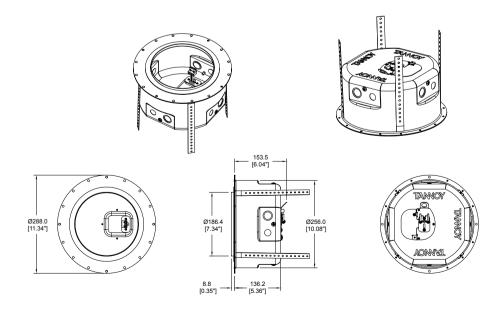




CMS 503DC PI BACKCAN Hole Cut-out Size: 190 mm

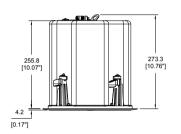


CMS 503ICT PI BACKCAN Hole Cut-out Size: 190 mm



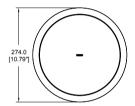
CMS 603DC BM

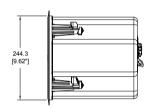
Hole Cut-out Size: 253 mm







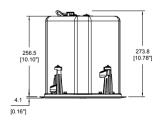


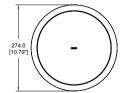




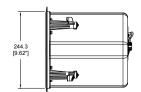
CMS 603ICT BM

Hole Cut-out Size: 253 mm







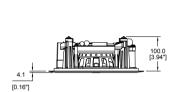






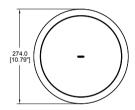
CMS 603DC PI

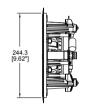
Hole Cut-out Size: 253 mm







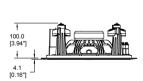






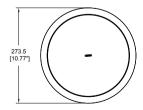
CMS 603ICT PI

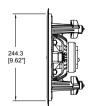
Hole Cut-out Size: 253 mm





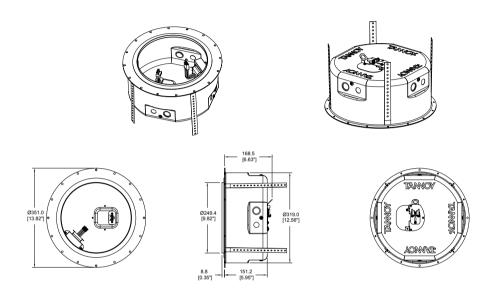




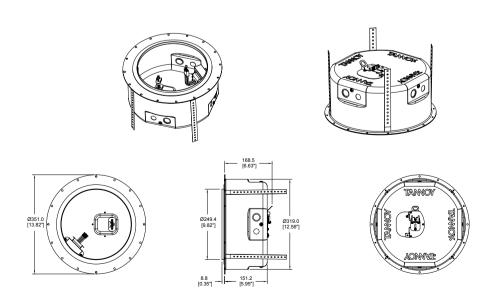




CMS 603DC PI BACKCAN Hole Cut-out Size: 253 mm

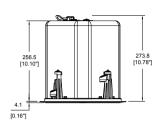


CMS 603ICT PI BACKCAN Hole Cut-out Size: 253 mm



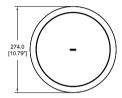
CMS 603ICT LS

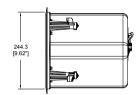
Hole Cut-out Size: 253 mm







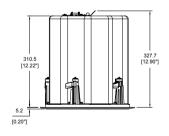


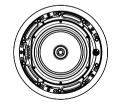


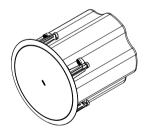


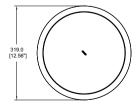
CMS 803DC BM

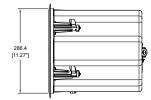
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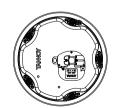






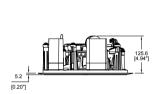






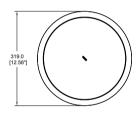
CMS 803DC PI

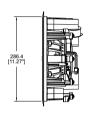
Hole Cut-out Size: 295 mm





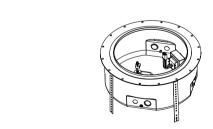


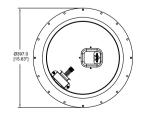


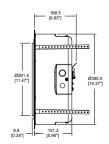


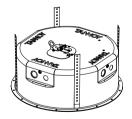


CMS 803DC PI BACKCAN Hole Cut-out Size: 295 mm





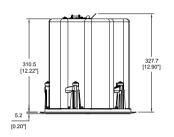




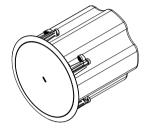


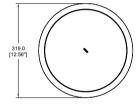
CMS 803DCQ

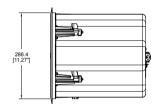
Hole Cut-out Size: 295 mm

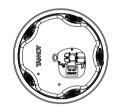












CMS 403DCe Model

Performance Frequency response (-3 dB) (1) 110 Hz - 50 kHz Frequency range (-10 dB) (1) 80 Hz - 54 kHz System sensitivity (1 W @ 1 m) (2) 88 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 106 dB Average Peak 112 dB Transformer Taps (via front rotary switch) 30 W (165 $\Omega)$ / 15 W (330 $\Omega)$ / 7.5 W (660 $\Omega)$ / 3.75 W (1320 $\Omega)$ / 70 V OFF & low impedance operation 100 V 30 W (330 $\Omega)$ / 15 W (660 $\Omega)$ / 7.5 W (1320 $\Omega)$ / OFF & low impedance operation

Transducers	
Dual Concentric point source driver	1 x 100 mm (4.0") 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

nclosure	
Backcan	Reflex loaded UL 94V-0 rated ABS
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	Min / Max clamping range: 0.0 mm (0.0") / 20.0 mm (0.79") Recommended clamp torque: 1.5 Nm
Backcan	
Blind Mount (BM)	Complete with fixed backcan
Connectors	Removable locking connector with screw terminals with "loop through" facility
Compliance	UL-1480, UL-2043, CE
Dimensions	
Bezel diameter	205.0 mm (8.07")
Front of ceiling to rear of pod	147.6 mm (5.81")
Hole cutout diameter	187 mm (7.36")
Net Weight (ea)	2.75 kg (6.06 lbs)
Included Accessories	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
Optional Accessories	Plaster (mud) ring
Packed Quantity	2

Ordering Information
Part Number Colour

8001 7410
CMS 403DCe White /
Paintable

8001 4180
CMS 403e Zinc Plated
Plaster (Mud) Ring Steel



Notes

- Average over stated bandwidth. Measured in an IEC baffle in an Anechoic Chamber
- Unweighted pink noise input, measured at
 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 403DCe 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

CMS 403ICTe Model

Crossover

Performance Frequency response (-3 dB) (1 110 Hz - 22 kHz 80 Hz - 24 kHz Frequency range (-10 dB) (1) System sensitivity (1 W @ 1 m) (2) 88 dB (1 W = 4 V for 16 Ohms) Nominal Coverage Angle 90 degrees conical Coverage Angle (1 kHz to 6 kHz) 120 degrees 5.26 averaged 1 kHz to 6 kHz Directivity Factor (Q) Directivity Index (DI) 6.30 averaged 1 kHz to 6 kHz Power Handling (3) Average 100 W Programme Peak 200 W **Recommended Amplifier Power** 100 W @ 16 ohms Nominal Impedance (Lo, Z) Rated maximum SPL 105 dB Average Peak 111 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
100 mm (4.00") mineral loaded polypropylene
High Frequency
19 mm (0.75") ICT aluminium dome

7 kHz inductively coupled

Physical Enclosure Reflex loaded UL 94V-0 rated ABS Backcan Baffle Reflex loaded UL 94V-0 rated ABS Steel, with weather resistant coating Safety Features Safety ring located at rear of enclosure for load bearing safety bond Min / Max clamping range: 0.0 mm (0.0") / Clamping Design Recommended clamp torque: 1.5 Nm Connectors Removable locking connector with screw terminals with "loop through" facility Compliance UL-1480, UL-2043, CE **Dimensions** Bezel diameter 205.0 mm (8.07") Front of ceiling to rear of pod 147.6 mm (5.81") Hole cutout diameter 187 mm (7.36") Net Weight (ea) 2.86 kg (6.31 lbs) **Included Accessories** C-Ring, tile-bridge kit, paint mask, cut-out template, grille **Optional Accessories** Plaster (mud) ring Packed Quantity

Ordering Information
Part Number Colour

8001 7760
CMS 403ICTe White /
Paintable

8001 4180
CMS 403e Zinc Plated
Plaster (Mud) Ring



Notes

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

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CMS 503DC Models

Performance Frequency response (-3 dB) (1) 85 Hz - 50 kHz Frequency range (-10 dB) (1) 74 Hz - 54 kHz Frequency range (-10 dB) (1) 70 Hz - 54 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) Programme 120 W Peak 240 W Recommended Amplifier Power 120 W @ 16 ohms Nominal Impedance (Lo, Z) 16 ohms Rated maximum SPL 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 30 W (330 Ω) / 15 W (660 Ω) / 7.5 W (1320 Ω) / 100 V 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 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) Complete with fixed backcan Pre Install (PI) Separate backcan for pre-installation **Cable Entry Options** Cable clamp & squeeze connector for conduit up to 22 mm Conduit Knockouts on PI Backcan 3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10") Connectors Removable locking connector with screw terminals with "loop through" facility Compliance UL-1480, UL-2043, CE Bezel diameter 205.9 mm (8.11") BM Model: Front of ceiling to rear of backcan 188 0 mm (7 40") BM Model: Front of ceiling to top of safety loop 205.3 mm (8.08") PI Model: Front of ceiling surface to rear of 133.3 mm (5.25") speaker unit PI Model: Front of accessory backcan bezel to 153.5 mm (6.04") top of safety loop Hole cutout diameter (all models) 190 mm (7.48") Net Weight (ea) CMS 503DC BM 4.1 kg (9.04 lbs) CMS 503DC PI 3.1 kg (6.83 lbs) PI Backcan 2.6 kg (5.73 lbs) **Included Accessories** C-Ring, tile-bridge kit, paint mask, cut-out template, grille **Optional Accessories** Plaster (mud) ring, Arco grille

Ordering Information Colour Part Number 8001 7420 CMS 503DC BM White / **Paintable** 8001 7430 CMS 503DC PI White / Paintable 8001 4180 Zinc Plated CMS 503 Plaster (Mud) Ring Steel 8001 7550 CMS 503 PI Backcan Zinc Plated Steel 8001 7880 CMS 503 Arco Grille White / **Paintable**





Notes

- 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 503DC can be downloaded from www.tannoypro.com.

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Packed Quantity

CMS 503DC LP Model

Performance Frequency response (-3 dB) (1 88 Hz - 22 kHz 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)

90 degrees conical **Nominal Coverage Angle**

Power Handling (3)

60 W Average Programme 120 W 240 W

Recommended Amplifier Power 120 W @ 16 ohms

Nominal Impedance (Lo, Z) 16 ohms

Rated maximum SPI Average 107 dB 113 dB

Transformer Taps (via front rotary switch)

30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 3.75 W (1320 Ω) /

OFF & low impedance operation

30 W (330 Ω) / 15 W (660 Ω) / 7.5 W (1320 Ω) /

OFF & low impedance operation

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

20 mm (0.79") PEI dome **High Frequency**

Backcan Zinc plated steel

Reflex loaded UL 94V-0 rated ABS Raffle 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

UL-1480, UL-2043, CE Compliance

Dimensions

Physical

274.0 mm (10.79") Bezel diameter Front of ceiling to rear of backcan 98.6 mm (3.88") Hole cutout diameter 253.0 mm (9.96") Net Weight (ea) 3.3 kg (7.27 lbs)

Included Accessories C-Ring, tile-bridge kit, paint mask, cut-out template, grille

Optional Accessories Plaster (mud) ring, Arco grille

Packed Quantity

Ordering Information Part Number Colour 8001 7930 CMS 503DC LP White /

8001 7890 CMS 603 Arco Grille

Paintable White / Paintable





- 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 503DC LP can be downloaded from www.tannoypro.com

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CMS 503ICT Models

Performance Frequency response (-3 dB) (1) 85 Hz - 22 kHz Frequency range (-10 dB) (1) 74 Hz - 24 kHz Frequency range (-10 dB) (1) 71 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 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 Power Handling (3) Average 50 W Programme 100 W 200 W Peak **Recommended Amplifier Power** 100 W @ 16 ohms Nominal Impedance (Lo, Z) 16 ohms Rated maximum SPL 106 dB Average Transformer Taps (via front rotary switch) 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 3.75 W (1320 Ω) / 70 V OFF & low impedance operation 100 V 30 W (330 Ω) / 15 W (660 Ω) / 7.5 W (1320 Ω) / OFF & low impedance operation 7 kHz inductively coupled Crossover

Transducers	
Low Frequency	130 mm (5.00") mineral loaded polypropylene
High Frequency	ICT aluminium 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)	Complete with fixed backcan
Pre Install (PI)	Separate backcan for pre-installation
Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22 mm
Conduit Knockouts on PI Backcan	3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10")
Connectors	Removable locking connector with screw terminals with "loop through" facility
Compliance	UL-1480, UL-2043, CE
Dimensions	
Bezel diameter	205.9 mm (8.11")
BM Model: Front of ceiling to rear of backcan	188.5 mm (7.42")
BM Model: Front of ceiling to top of safety loop	205.8 mm (8.10")
PI Model: Front of ceiling surface to rear of speaker unit	131.7 mm (5.19")
PI Model: Front of accessory backcan bezel to top of safety loop	153.5 mm (6.04")
Hole cutout diameter (all models)	190 mm (7.48")
Net Weight (ea)	
CMS 503ICT BM	3.85 kg (8.49 lbs)
CMS 503ICT PI	2.85 kg (6.28 lbs)
PI Backcan	2.6 kg (5.73 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 7500 CMS 503ICT BM White / Paintable 8001 7510 CMS 503ICT PI White / Paintable 8001 4180 Zinc Plated CMS 503 Plaster (Mud) Ring Steel 8001 7550 CMS 503 PI Backcan Zinc Plated Steel 8001 7880 CMS 503 Arco Grille White / Paintable





Notes

- Average over stated bandwidth. Measured in an IFC 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 503ICT can be downloaded from www.tannoypro.com.

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CMS 503ICT LP Model

Performance Frequency response (-3 dB) (1 88 Hz - 50 kHz 77 Hz - 54 kHz Frequency range (-10 dB) (1) 89 dB (1 W = 4 V for 16 Ohms) System sensitivity (1 W @ 1 m) (2) Nominal Coverage Angle 90 degrees conical Power Handling (3) 50 W Average Programme 100 W 200 W Recommended Amplifier Power 100 W @ 16 ohms Nominal Impedance (Lo, Z) 16 ohms Rated maximum SPI Average 106 dB 112 dB Transformer Taps (via front rotary switch) 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 3.75 W (1320 Ω) / OFF & low impedance operation 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 Backcan 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 274.0 mm (10.79") Bezel diameter Front of ceiling to rear of backcan 98.6 mm (3.88") Hole cutout diameter 253.0 mm (9.96") Net Weight (ea) Included Accessories C-Ring, tile-bridge kit, paint mask, cut-out template, grille Plaster (mud) ring, Arco grille Optional Accessories Packed Quantity

Ordering Information
Part Number

Colour

8001 7940
CMS 503ICT LP

White /
Paintable

8001 7890
CMS 603 Arco Grille

White /
Paintable





Notes

- 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 436B toot

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

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CMS 603DC Models

Performance Frequency response (-3 dB) (1) 75 Hz - 30 kHz Frequency range (-10 dB) (1) 50 Hz - 30 kHz Frequency range (-10 dB) (1) 46 Hz - 30 kHz System sensitivity (1 W @ 1 m) (2) 91 dB (1 W = 4 V for 16 Ohms) **Nominal Coverage Angle** 90 degrees conical Power Handling (3) Programme 160 W 320 W Peak Recommended Amplifier Power 160 W @ 16 ohms Nominal Impedance (Lo, Z) 16 ohms Rated maximum SPL 110 dB Peak 116 dB Transformer Taps (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

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 Backcan Zinc plated steel Baffle Reflex loaded UL 94V-0 rated ABS 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) Complete with fixed backcan Pre Install (PI) Separate backcan for pre-installation **Cable Entry Options** Cable clamp & squeeze connector for conduit up to 22 mm Conduit Knockouts on PI Backcan 3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10") Connectors Removable locking connector with screw terminals with "loop through" facility Compliance UL-1480, UL-2043, CE **Dimensions** 274.0 mm (10.79") Bezel diameter 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 100.7 mm (3.96") PI Model: Front of accessory backcan bezel to 168.5 mm (6.60") top of safety loop 253 mm (9.96") Hole cutout diameter (all models) Net Weight (ea) CMS 603DC BM 6.6 kg (14.56 lbs) CMS 603DC PI 3.65 kg (8.05 lbs) PI Backcan 3.68 kg (8.11 lbs) **Included Accessories** C-Ring, tile-bridge kit, paint mask, cut-out template, grille **Optional Accessories** Plaster (mud) ring, Arco grille **Packed Quantity**

Ordering Information Colour Part Number 8001 7440 CMS 603DC BM White / **Paintable** 8001 7450 CMS 603DC PI White / Paintable 8001 4181 Zinc Plated CMS 603 Plaster (Mud) Ring Steel 8001 7560 CMS 603 PI Backcan Zinc Plated Steel 8001 7890 CMS 603 Arco Grille White / **Paintable**





Notes

- 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 603DC can be downloaded from www.tannoypro.com.

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CMS 603ICT Models

Performance Frequency response (-3 dB) (1) 78 Hz - 22 kHz Frequency range (-10 dB) (1) 51 Hz - 24 kHz Frequency range (-10 dB) (1) 46 Hz - 24 kHz System sensitivity (1 W @ 1 m) (2) 91 dB (1 W = 4 V for 16 Ohms) 90 degrees conical Nominal Coverage Angle Coverage Angle (1 kHz to 6 kHz) 92 degrees Directivity Factor (Q) 7.1 averaged 1 kHz to 6 kHz Directivity Index (DI) 7.9 averaged 1 kHz to 6 kHz Power Handling (3) Average 60 W Programme 120 W 240 W Peak 120 W @ 16 ohms **Recommended Amplifier Power** Nominal Impedance (Lo, Z) 16 ohms Rated maximum SPL 109 dB Average Transformer Taps (via front rotary switch) 60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / 70 V OFF & low impedance operation 100 V 60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) / OFF & low impedance operation Crossover 7 kHz inductively coupled

Transducers	
Low Frequency	165 mm (6.50") mineral loaded polypropylene
High Frequency	ICT aluminium 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)	Complete with fixed backcan
Pre Install (PI)	Separate backcan for pre-installation
Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22 mm
Conduit Knockouts on PI Backcan	3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10")
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")
BM Model: Front of ceiling to rear of backcan	256.5 mm (10.10")
BM Model: Front of ceiling to top of safety loop	273.8 mm (10.78")
PI Model: Front of ceiling surface to rear of speaker unit	100.0 mm (3.94")
PI Model: Front of accessory backcan bezel to top of safety loop	168.5 mm (6.60")
Hole cutout diameter (all models) Net Weight (ea)	253 mm (9.96")
CMS 603ICT BM	TBA
CMS 603ICT PI	TBA
PI Backcan	3.68 kg (8.11 lbs)
Included Accessories	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
Illiciaded Accessories	O Tillig, tilo bridge kit, palit mask, cut-out template, grille
Optional Accessories	Plaster (mud) ring, Arco grille

Ordering Information Part Number Colour 8001 7520 CMS 603ICT BM White / Paintable 8001 7530 CMS 603ICT PI White / Paintable 8001 4181 Zinc Plated CMS 603 Plaster (Mud) Ring Steel 8001 7560 CMS 603 PI Backcan Zinc Plated Steel 8001 7890 CMS 603 Arco Grille White / Paintable





Notes

- 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

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CMS 803DC Models

Performance	
Frequency response (-3 dB) (1) BM Backcan	47 Hz - 30 kHz
Frequency range (-10 dB) (1) BM Backcan	40 Hz - 35 kHz
Frequency range (-10 dB) (1) PI Backcan	41 Hz - 35 kHz
System sensitivity (1 W @ 1 m) (2)	92 dB (1 W = 4 V for 16 Ohms)
Nominal Coverage Angle	90 degrees conical
Power Handling (3)	
Average	90 W
Programme	180 W
Peak	360 W
Recommended Amplifier Power	180 W @ 16 ohms
Nominal Impedance (Lo, Z)	16 ohms
Rated maximum SPL	
Average	112 dB
Peak	118 dB
With THP60 - Average	110 dB
Transformer Taps (via front rotary switch)	
70 V	60 W (83 $\Omega)$ / 30 W (165 $\Omega)$ / 15 W (330 $\Omega)$ / 7.5 W (660 $\Omega)$ / OFF & low impedance operation
100 V	60 W (165 $\Omega)$ / 30 W (330 $\Omega)$ / 15 W (660 $\Omega)$ / OFF & low impedance operation

Transducers	
Dual Concentric point source driver	1 x 200 mm (8.0") 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	
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) Complete with fixed backcan	
Pre Install (PI) Separate backcan for pre-installation	
Cable Entry Options Cable clamp & squeeze connector for conduit up to 22 mm	
Conduit Knockouts on PI Backcan 3 Sets of horizontal positions 19 / 22 / 28 mm (0.75" / 0.87" / 1.10'	
Connectors Removable locking connector with screw terminals with "loop through" facility	
Compliance UL-1480, UL-2043, CE	
Dimensions	
Bezel diameter 319.0 mm (12.56")	
BM Model: Front of ceiling to rear of backcan 310.5 mm (12.22")	
BM Model: Front of ceiling to top of safety loop 327.7 mm (12.90")	
PI Model: Front of ceiling surface to rear of 125.6 mm (4.94") speaker unit	
PI Model: Front of accessory backcan bezel to 168.5 mm (6.63") top of safety loop	
Hole cutout diameter (all models) 295 mm (11.61") Net Weight (ea)	
CMS 803DC BM 8.5 kg (18.74 lbs)	
CMS 803DC PI 4.9 kg (10.80 lbs)	
PI Backcan 4.0 kg (8.81 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 7470 CMS 803DC BM White / Paintable 8001 7480 CMS 803DC PI White / Paintable 8001 4650 Zinc Plated Steel CMS 803 Plaster (Mud) Ring 8001 7570 CMS 803 PI Backcan Zinc Plated Steel 8001 7900 CMS 803 Arco Grille White / **Paintable**





Notes

- 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 803DC 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.

CMS 803DCQ Model

Deufermen er	
Performance Frequency response (-3 dB) (1)	47 Hz - 30 kHz
Frequency range (-10 dB) (1)	40 Hz - 35 kHz
BM Backcan	40 1 12 00 10 12
Frequency range (-10 dB) (1)	41 Hz - 35 kHz
Pl Backcan	7771 <u>2</u> 00 10 12
System sensitivity (1 W @ 1 m) (2)	93 dB (1 W = 4 V for 16 Ohms)
Nominal Coverage Angle	60 degrees conical
Power Handling (3)	
Average	90 W
Programme	180 W
Peak	360 W
Recommended Amplifier Power	180 W @ 16 ohms
Nominal Impedance (Lo, Z)	16 ohms
Rated maximum SPL	
Average	113 dB
Peak	119 dB
With THP60 - Average	111 dB
Transformer Taps (via front rotary switch)	
70 V	60 W (83 $\Omega)$ / 30 W (165 $\Omega)$ / 15 W (330 $\Omega)$ / 7.5 W (660 $\Omega)$ / OFF & low impedance operation
100 V	60 W (165 $\Omega)$ / 30 W (330 $\Omega)$ / 15 W (660 $\Omega)$ / OFF & low impedance operation

Transducers	
Dual Concentric point source driver	1 x 200 mm (8.0") 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	
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	319.0 mm (12.56")
Front of ceiling to rear of backcan	310.5 mm (12.22")
Front of ceiling to top of safety loop	327.7 mm (12.90")
Hole cutout diameter (all models)	295 mm (11.61")
Net Weight (ea)	8.5 kg (18.74 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 7490
CMS 803DCQ
White /
Paintable

8001 4650
CMS 803
Plaster (Mud) Ring

Steel

8001 7900
CMS 803 Arco Grille
White /
Paintable



Note:

- . Average over stated bandwidth. Measured in an IEC baffle in an Anechoic Chamber
- Unweighted pink noise input, measured at
 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 803DCQ can be downloaded from www.tannoypro.com.

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10. Painting

If desired, the grille and baffle panel may be painted to match the surrounding décor.

Painting the baffle:

- Carefully mask off the driver assembly using the paint mask provided to ensure that the paint does not come into contact with the cone and roll surround.
- Apply several thin coats of paint this will provide a better finish than one overly thick coat.

Painting the grille:

- Carefully remove the acoustically transparent grille cloth from the reverse side of the grille.
- Paint the grille and then replace the grille cloth several thin coats of paint will provide a better finish than one overly thick coat.
- Re-bond the grille cloth to the grille over the entire area using a light spray-adhesive to avoid audible resonances.

11. Warranty

No maintenance of the CMS Series loudspeaker is necessary.

As part of the MUSIC Group, Tannoy is committed to providing the highest quality products, service and user experience for our customers. One element of this commitment is our after sales support which now incorporates our extended Limited Warranty. In the event of any concern that is not addressed by this extended Limited Warranty we would ask you to contact us at care@music-group.com

For full warranty details including the extended Limited Warranty, please visit http://www.music-group.com/warranty.aspx and register your purchase online at www.music-group.com or www.tannoy.com

12. Declaration of conformity

(in accordance with ISO/IEC 1750-1)

Document No: CE-CMS3-1

We: Music Group Innovation SC Ltd

Rosehall Industrial Estate, Coatbridge, ML5 4TF, United Kingdom

In accordance with the following Directive(s):

2004/108/RC Electromagnetic Compatibility (EMC)

2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

Hereby declare that:

Type of equipment In-Ceiling Loudspeakers

Models CMS 403DCe, CMS 403ICTe, CMS 503DC BM, CMS 503ICT BM,

CMS 503DC PI, CMS 503ICT PI, CMS 503DC PI BACKCAN, CMS 503ICT PI BACKCAN, CMS 603DC BM, CMS 603ICT BM, CMS 603DC PI, CMS 603ICT PI, CMS 603DC PI BACKCAN, CMS 603ICT PI BACKCAN, CMS 603ICT PI BACKCAN, CMS 603ICT PI BACKCAN, CMS 803DC PI BACKCAN, CMS 803DC PI, CMS 803DC PI BACKCAN, CMS 803DCQ

Is/are in conformity with the requirements of the following documents:

Ref. No Title Edition

BS EN 55103-1 Electromagnetic compatibility. Product family standard for audio,

video, audio-visual and entertainment lighting control apparatus 2009

2009

for professional use. Emissions

BS EN 55103-2 Electromagnetic compatibility. Product family standard for audio,

video, audio-visual and entertainment lighting control apparatus

for professional use. Immunity

Name: Philippe Robineau
Position: Director of Engineering

Done at: Coatbridge Date: 23/11/2015

Director of Engineering

Tannoy

23 November 2015

Notes

tannoypro.com