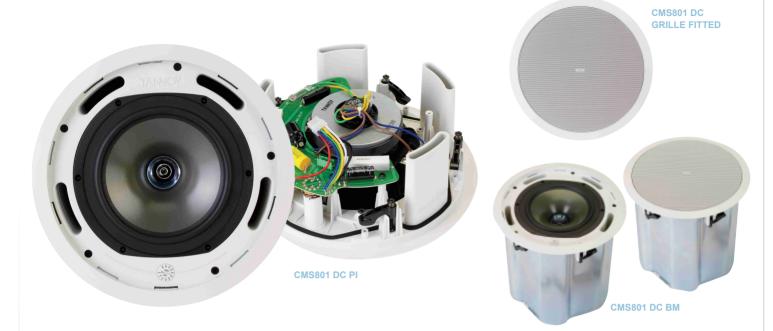
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Product Description

The Tannoy CMS801 DC is a full bandwidth; high power and high sensitivity ceiling monitor system. The 200mm (8.00") Tannoy Dual Concentric™ is a point source drive unit design comprising a multi fibre paper pulp mid bass cone and a 25mm (1.00") ferrofluid cooled, titanium dome HF unit with neodymium magnet system. The driver and passive frequency dividing network are mounted in a vented, injection moulded, paintable front baffle manufactured from UV/weather resistant UL94V-0 ABS material.

The mid-bass and tweeter sections of the Tannoy Dual Concentric[™] constant directivity driver are coincidentally aligned to a true point source; ensuring a wide and controlled dispersion for optimum coverage; this while avoiding the massive loss of energy, in the vertical plane at the crossover frequency, inherent in two-way discreet designs. This high power and high sensitivity design, with extended frequency response and very low distortion, is equipped with dynamic high frequency protection.

This compact unit is specifically designed for applications requiring the combination of premium sonic quality for music and speech reinforcement and exceptional reliability and intelligibility.

Two CMS801 DC model versions and a separate back can are available to satisfy the vast majority of installation application requirements:

CMS801 DC BM (Blind Mount) - supplied with an integral back can. CMS801 DC PI (Pre-Install) - supplied without a back can. CMS801 PI Back Can (Pre-wire back can) - use with the CMS801 DC PI.

The CMS801 DC BM model is equipped with a low insertion loss 60W line transformer mounted within the back can. This is easily configurable to the following settings via front baffle mounted rotary tapping switch:

70V systems: 60W / 30W / 15W / 7.5W / OFF & low Impedance operation 100V systems: 60W / 30W / 15W / OFF & low Impedance operation

The CMS801 DC PI is supplied without a transformer. If the product is to be used without a back can a 60W line transformer (7600 1658) is available as an optional accessory for easy connection to the baffle mounted control switch circuit. Installing the transformer in this manner (flying) requires installation in accordance with local building regulations.

NOTE: For optimum performance and full compliance with safety ratings Tannoy recommends using the CMS801 PI Back Can (8001 4570) accessory option in which the transformer is pre-fitted.

The zinc plated steel back cans have an integrated, recessed termination box. The removable locking connector has screw terminals for secure wire termination and "loop through" facility. Strain relief is provided by a clamping mechanism for use with plenum rated cable or conduit.

Spring loaded self-aligning clamps make for quick and easy installation, while all models are also supplied with two tile support rails and one C-ring included in the package.

A plaster (mud) ring is available as an optional accessory.

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Features

- 200mm (8.00") point source Dual Concentric™ driver
- High power & high sensitivity with extended frequency response and very low distortion
- Wide, controlled constant directivity dispersion for optimum coverage.
- Does not suffer from massive loss of energy in the vertical plane at crossover caused by two way discreet designs
- UV/weather resistant UL94V-0 ABS front baffle
- Blind Mount & Pre Install options
- Dynamic high frequency protection
- · Easily accessible tapping switch on front baffle.
- Low insertion loss 60W line transformer
- Ferrofluid cooled neodymium HF
- Packaged with tile rails and C-ring for quick & easy installation and simple stocking logistics
- Five year warranty

Applications

- Multi-zone 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

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TECHNICAL SPECIFICATIONS

System	CMS801 DC		
Frequency Response (-3dB) ⁽¹⁾ BM Back can	47Hz - 30kHz		
F requency Range (-10dB) ⁽¹⁾ 3M Back can	40Hz - 35kHz		
Frequency Range (-10dB) ⁽¹⁾ PI Back can	41Hz - 35kHz		
System Sensitivity (1W @ 1m) ⁽²⁾	92dB (1W = 2.8	3V for 8 Ohms)	
Nominal Coverage Angle	90 degrees conical		
Coverage Angle (1kHz to 6kHz)	100 degrees conical		
Directivity Factor (Q)	5.5 averaged 1kHz to 6kHz		
Directivity Index (DI)	7.2 averaged 1kHz to 6kHz		
Rated Maximum SPL	112dB (average)		
with THP60	118dB (peak) 110 (average)		
Power Handling ⁽³⁾			
Verage	90W		
rogramme eak	180W 360W		
Recommended Amplifier Power	180W @ 8 Ohms		
Nominal Impedance	8 Ohms		
Fransformer Taps via front rotary switch)			
70V	60W / 30W / 15W / 7.5W / OFF & Low Impedance operation		
100V	60W / 30W / 15W / OFF & Low Impedance operation		
Distortion	0		
10% Full Power	2nd Harmonic	3rd Harmonic	
50Hz	0.65%	0.39%	
kHz	1.36%	0.29%	
OkHz	1%	0.03%	
% Full Power	2nd Harmonic	3rd Harmonic	
50Hz	0.20%	0.43%	
kHz	0.49%	0.28%	
0kHz	0.42%	0.03%	
Crossover	2kHz - 2nd order LF, 2nd order H (with dynamic HF protection)		

Low Frequency High Frequency	1 x 200mm (8.00") Dual Concentric™ constant directivity driver with multi fibre paper pulp cone		
High Frequency			
	1 x 25mm (1.00") titanium dome with neodymium magnet system		
Physical			
Enclosure			
Back can Baffle Grille	Zinc plated steel 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 Min / Max Clamping Range Recommended Clamp Torque	Security toggle clamp 0.0mm (0.0") / 20.0mm (0.79") 1.5Nm		
Back Can Options Blind Mount (BM) Pre Install (PI)	Complete with fixed backcan Separate backcan for Pre Installation		
Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22mm		
Conduit Knockouts	3 Sets of horizontal positions 19/22/28mr 0.75/0.87/1.1"		
Connectors	Removable locking connector with screw terminals with "loop through" facility		
Safety Agency Ratings (pending)	UL-1480, UL-2043, CE		
BM Hole Cutout Diameter	295mm (11.61")		
PI Hole Cutout Diameter	295mm (11.61")		
Dimensions Bezel diameter	325mm (12.80")		
Front of ceiling to rear of back can (BM)	310.5mm (12.22")		
Front of ceiling to top of safety loop (BM)	327.8mm (12.90")		
Back of ceiling surface to rear of back can (PI)	151.2mm (5.95")		
Back of ceiling surface to top of safety loop (PI)	168.5mm (6.63")		
Front of Ceiling to rear of Bass ports (no back can) Pl	123.7mm (4.87")		
Net Weight (ea) CMS801 DC BM CMS801 DC PI CMS801 Plaster (Mud) Ring CMS801 PI 8ohm BACKCAN CMS801 DC 60W transformer kit 8 ohm	6.5kg (14.33lbs) 2.5kg (5.51lbs) 0.3685kg (0.81lbs) 4kg (8.81lbs) 1.095kg (2.41lbs)		
Included Accessories	C Ring, tile bridge, paint mask, cutout template, grille		
Optional Accessories	Plaster (Mud) Ring		

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Part numberModel nameBaffle / Grille Colour8001 4550CMS801 DC BMWhite / paintable8001 4560CMS801 DC PIWhite / paintable8001 4650CMS801 Plaster (Mud) RingZinc plated steel8001 4570CMS801 PI 8ohm BACKCANZinc plated steel7600 1658CMS801 DC 60W transformer kit 8 ohmN/A	Packed Quantity 2 1 1 1	Packed Weight Kg (Lbs) 14 (30.86) 6 (14.33) 0.4535 (1.00) 4.5 (9.92) 2.1 (0.95)
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(1) Average over stated Bandwidth. Measured in an IEC baffle in an Anechoic Chamber

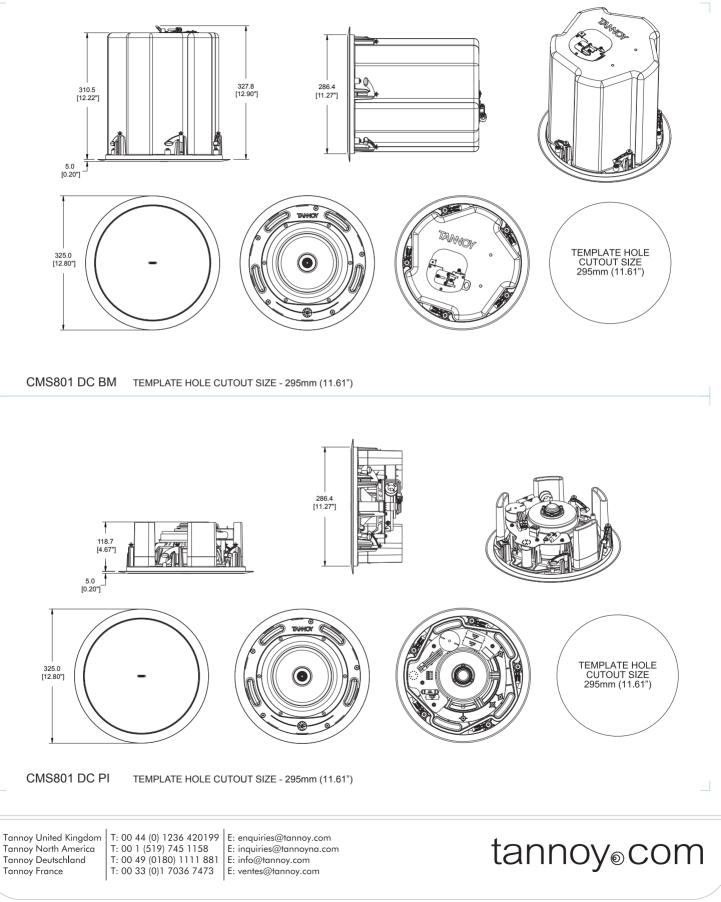
(2) Unweighted Pink noise input, measured at 1m on axis
(3) Long term power handling capacity as defined in EIA - 426B test

Ordering Information

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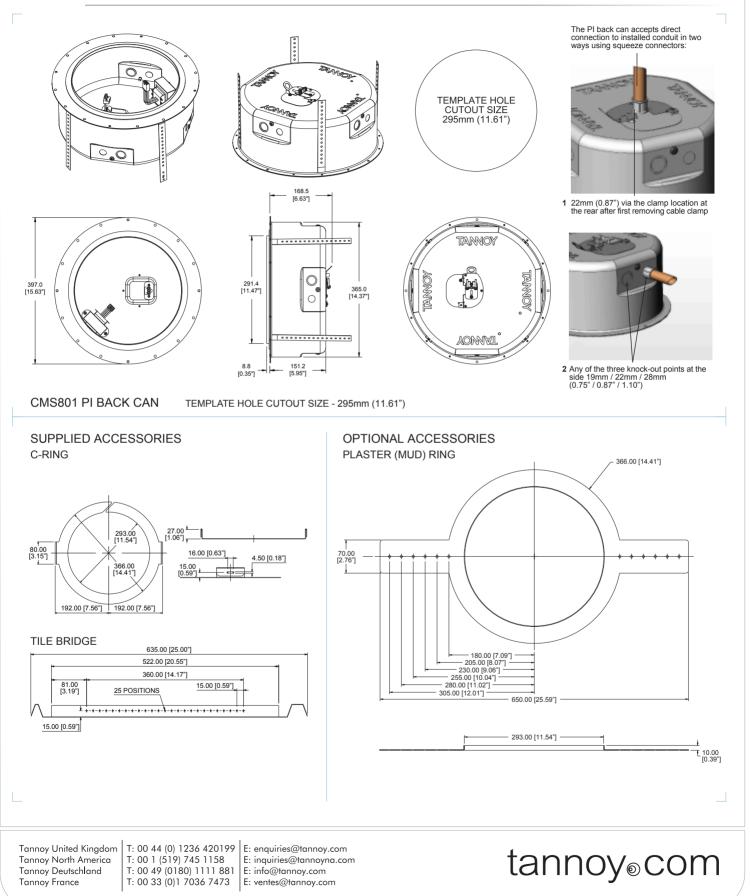
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DIMENSIONAL SKETCHES



DIMENSIONAL SKETCHES



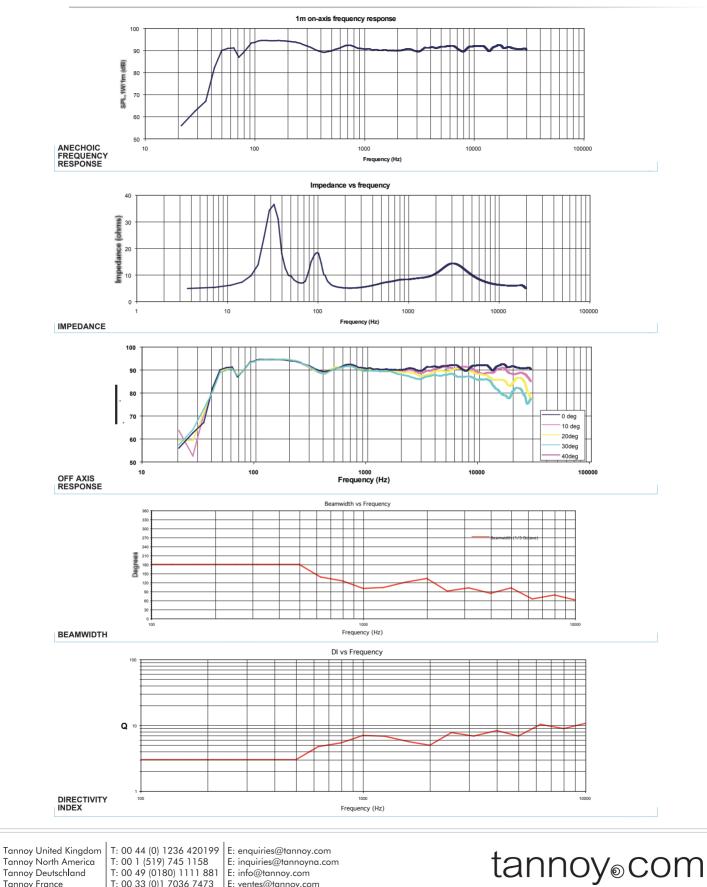


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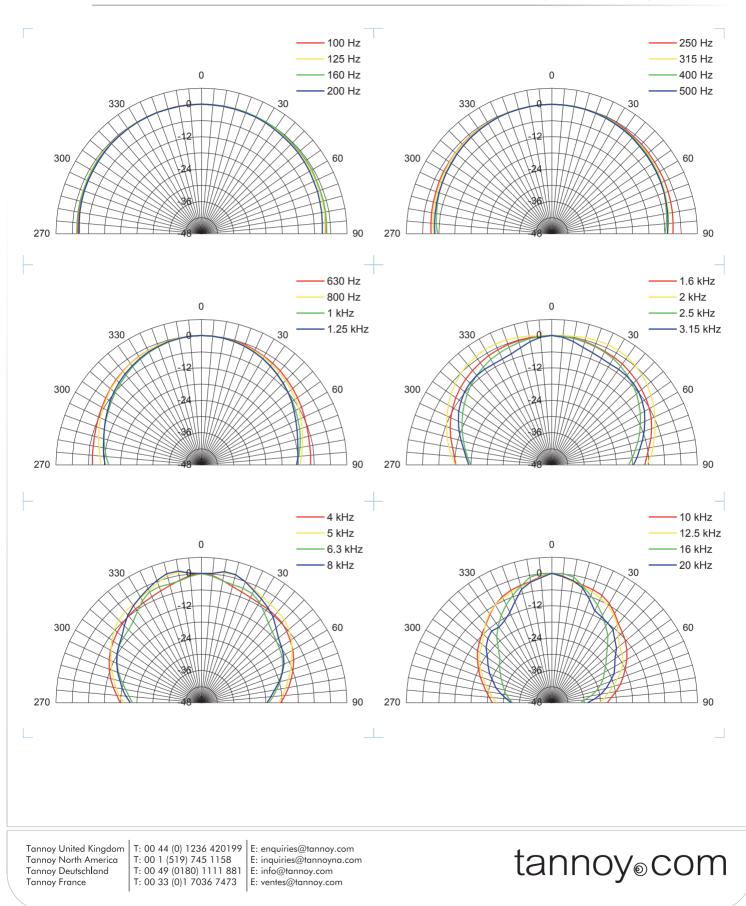
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PERFORMANCE MEASUREMENTS



TANNOY_®

PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



Architectural Specifications

The Ceiling Monitor System shall consist of a 200mm (8.00") full range, point source, constant directivity Dual Concentric™ transducer and passive frequency dividing network mounted in a vented, injection moulded, paintable front baffle in UL94V-0 ABS material.

The backcan in both PI (pre-install) & BM (Blind-mount variants) shall be constructed of zinc plated steel. A recessed termination box shall be integrated with the backcan, a removable locking connector with screw terminals for secure wire termination with "loop through" facility shall be provided. Strain relief will be provided by a clamping mechanism for use with plenum rated cable or conduit.

For pre-wiring the PI (pre-install) backcan is provided with conduit knockouts (19mm/22mm/28mm, 0.75"/0.87"/1.14"). A safety ring is located on the rear of the backcan for a load bearing safety bond.

Performance of the Ceiling Monitor System shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 100 degrees (1kHz to 6kHz). Frequency response measured on axis shall be 40 Hz - 35kHz (-10dB from rated sensitivity, measured in an IEC baffle in an anechoic chamber) with no equalization. Sensitivity shall be 92dB (1W @ 1m). Long term power handling capacity as defined in EIA-426B test shall be 90W, recommended amplifier power 180W. Dynamic high frequency protection is provided for occasional overpowering. The nominal system impedance shall be 8 Ohms (in low impedance setting).

The Ceiling Monitor System shall be equipped with a 60W high performance line transformer for use in 70.7 or 100 Volt distributed audio systems with 60, 30, 15, 7.5* Watt taps available. An easily accessible rotary switch located on the front baffle shall be available for selecting transformer and low impedance settings. A weather resistant perforated steel grille covers the transducer and switch.

Two support rails and one C-Ring shall be included with the ceiling monitor system. The front face diameter shall not exceed 325mm (12.80"), overall depth from the front of the ceiling to the top of the safety loop shall not exceed 327.80mm (12.90") for the blind mount variant, and 168.50mm (6.63") for the pre install variant.

The Ceiling Monitor System shall be the CMS801 DC.

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