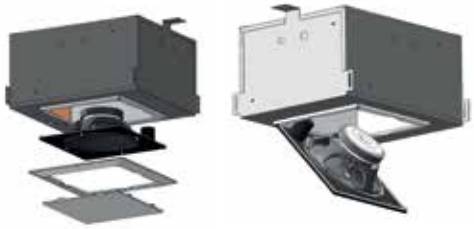
Technical Data Sheet

CMS 1201SW



Product description

The CMS 1201SW is a powerful large format in-ceiling subwoofer loudspeaker device conceived, designed and built to complement Tannoy's existing class-leading CMS range, or any full range system requiring extended bass response. The CMS 1201SW is intended for systems utilizing an external active crossover and separate amplifier channel for the subwoofer loudspeaker(s). From the pioneers of point source and large format ceiling speakers the CMS 1201SW is engineered from the ground up with superior full-range performance in mind to handle demanding distributed sound applications such as ballrooms, shopping malls, sports halls, airports and other high ceiling installations. The CMS 1201SW features a high power handling 12" (300mm) bass driver featuring a 3" Copper Sandwich Voice Coil for low Power Compression and Triple Aluminum demodulating Rings for ultra-low Distortion. Tannoy has again raised the bar to give the absolute cutting edge performance in ceiling mounted loudspeaker technology.

The custom engineered powder coated steel back-can has been designed to cater for all conceivable installation possibilities making the CMS 1201SW extremely versatile. The internally dampened 79 litre (2.8 cubic feet) back-can provides exceptional LF performance on a par with conventional wooden enclosure loudspeakers. Steel mounting lugs allow for fitting to a Unistrut roof rail system or be hung via 4 top-mounted eye bolts. Alternatively, the design caters for a single point hang via M10 or 3/8 UNC screwed rod. Mounting of the loudspeaker assembly to the pre-installed back-can is a one man job thanks to the common sense design approach. One edge of the baffle clips onto the steel box to hold it in place while the installer secures the assembly in place. Connection is simple via terminal barrier strips inside the can, easily accessible via 20mm and 29mm conduit knockouts on all 5 sides of the can. The CMS 1201SW is available in both standard low-Z variant (CMS 1201SW) and 150 W line transformer-equipped version (CMS 1201SWT) for use on 70 V or 100 V distributed lines.

The following tappings are configurable on the transformer before screwing driver assembly into the back can:

70 V systems: 150 W / 75 W / 38 W / 19 W / OFF
100 V systems: 150 W / 75 W / 38 W / OFF

If later adjustment to the level is required the baffle can be hung from the can via a hinged edge, leaving both hands free to make the required adjustment.

Warranty details can be found at music-group.com.

Features

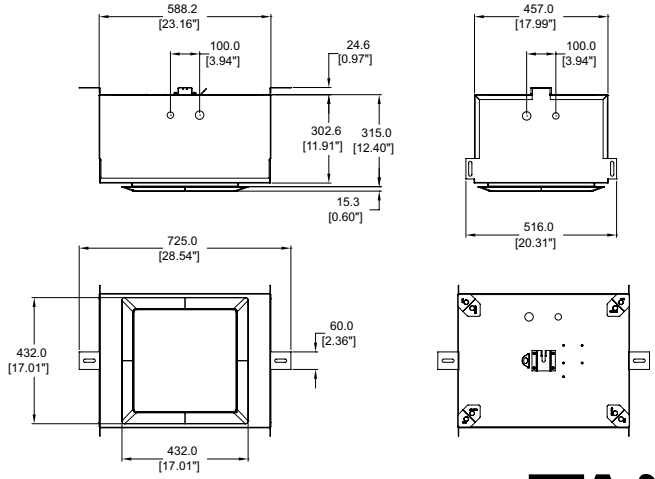
- 12" (300 mm) Heavy Duty Bass Driver
- 3" Copper Sandwich Voice Coil for low Power Compression
- Triple Aluminium demodulating Rings for ultra-low Distortion
- High power & high sensitivity with extended LF response and very low distortion
- High power handling (800 W rec. power), high SPL (120 dB sustained average)
- Highly versatile back-can installation options
- 79 litre Back-can lined with OSB2 board and bracing for optimum acoustic performance
- One-man install thanks to quick-fix baffle fitmen
- Available with optional low insertion loss 150 W line transforme

Applications

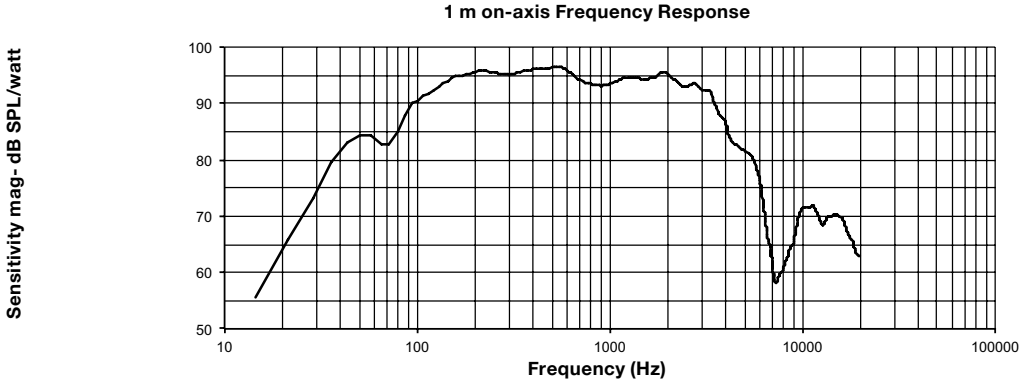
- Multizone Foreground Music & Paging Systems
- Business Music Systems
- Airports, Convention Centres, Hotels
- Houses of Worship
- Retail Outlets / Shopping Malls
- Lounges / Bars
- Cruise Ships

Physical data

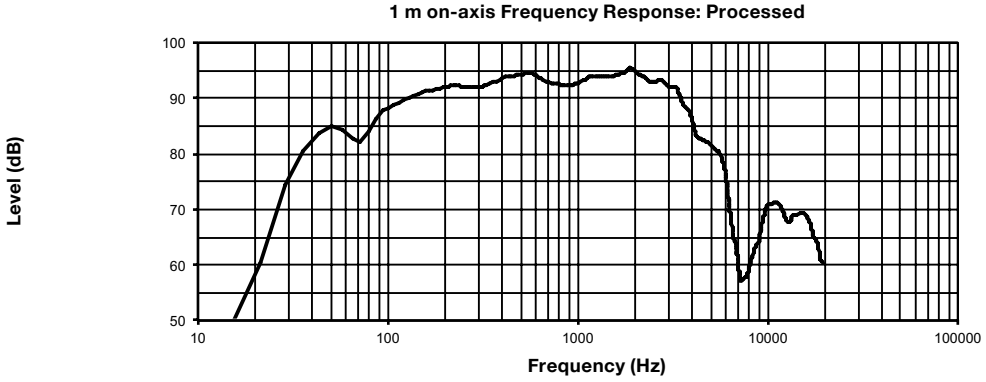
Dimensions HxWxD**:** 1460.5 x 121 x 146 mm (57.5 x 4.8 x 5.7")
Net Weight (Baffle)**:** 9 kg (19.8 lbs)



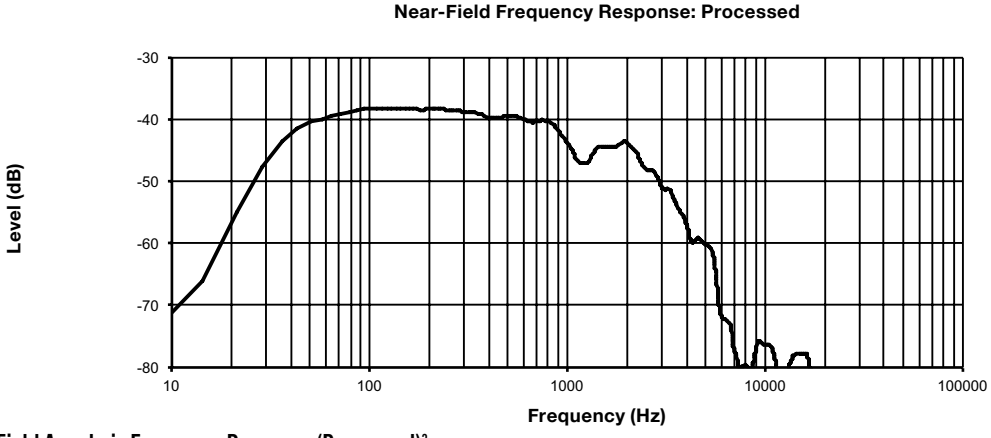
TANNOY



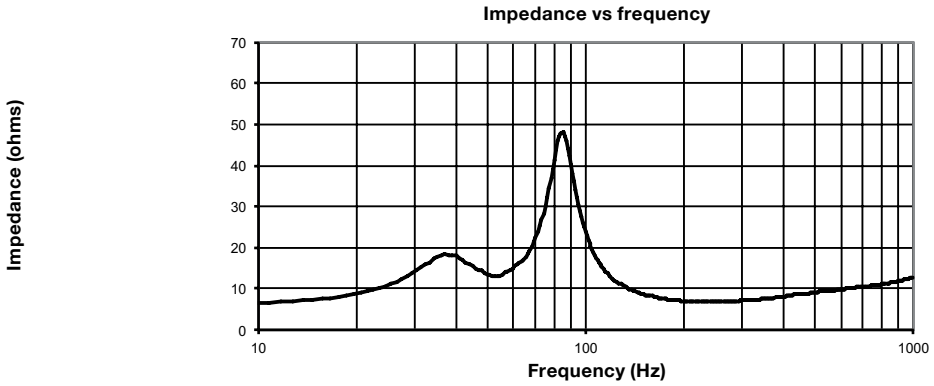
Anechoic Frequency Response (Unprocessed)



Anechoic Frequency Response (Processed)



Near-Field Anechoic Frequency Response (Processed)[3]


Impedance vs frequency
Impedance (ohms)
70
60
50
40
30
20
10
0
10
100
1000
Frequency (Hz)

Impedance

Technical Data Sheet
Specifications

CMS 1201SW

Performance	
Frequency response (-3 dB) [1]	34 Hz - 1 kHz
Frequency range (-10 dB)	30 Hz - 3 kHz
System Sensitivity (1W @1m) [2]	93 dB (1 W = 2.83 V for 8 Ohms)
Rated maximum SPL	
Average	120 dB
Peak	126 dB
Power Handling	
Average	400 W
Programme	800 W
Peak	1600 W
Recommended Amplifier Power	800 W @ 8 Ohms
Nominal Impedance	8 Ohms
Transducer	1 x 300 mm (12.00") Bass Driver with 3" Voice Coil

Physical	
Enclosure	
Backcan	1.6 mm black powder coated steel, damped with 11 mm OSB board
Baffle	1.2 mm black powder coated steel
Grille	1.0 mm white powder coated perforated steel
Dimensions	1460.5 x 121 x 146 mm (57.5 x 4.8 x 5.7")
Net Weight	
Backcan	20 kg (44.1 lbs)
Baffle	9 kg (19.8 lbs)
Grille	1.1 kg (2.4 lbs)

Ordering Information
Part Number

8001 7350
CMS 1201SW

8001 4765
Backcan CMS 1201 BASS

8001 4780
Grille assy CMS 1201

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. PEQ1: 50Hz +2.6dB 1Q
   PEQ2: 175Hz -4.6dB 1Q

A full range of measurements, performance data, CLF and Ease™ Data for CMS 1201SW 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.