

Specifications: CM62-EZs

Tile bridge included

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System Type	6.5" Coax, in-ceiling, sealed (32 Watt transformer for 25/70.7/100 Volt or 16 ohm direct)						
Impedance (nominal)	16 ohm						
Sensitivity dB @ 2.83V/1M	87.6 dE	87.6 dB					
Sensitivity dB @ 1W/1M ¹	90.5 dE	90.5 dB					
Frequency Response (- 3 dB) ²	135 Hz - 22 kHz						
Frequency Response (-10 dB) ²	75 Hz -	75 Hz - 22 kHz					
Max. Program Power 3	100 w						
Max. Continuous Power RMS ⁴	50 w						
Max. Power SPL @ 1 M ⁵	107.5 dB						
Max. SPL @ 3 dB Distortion 6	50 w						
Coverage Angle (-6 dB @ 2 kHz)	140°						
Coverage Angle (-6 dB @ 10 kHz)	105°						
Coverage Angle	80° (Avg. from 2 - 10 kHz)						
Directivity Factor (Q)	3.7 Avg. (100 Hz - 10 kHz) ; 3.8 (2 kHz)						
Directivity Index (DI) dB	5.3 dB Avg. (100 Hz - 10 kHz); 5.8 dB (2 kHz)						
Tap Selector	5-Position rotary switch with 16 ohm direct						
Transducer - Low Frequency Driver	165 mm (6.5 in) Treated Fiber cone, cloth surround						
Transducer - High Frequency Driver	25 mm (1in) Silk tweeter						
Low Frequency Voice Coil	25.4 mm / 1.00 in						
Crossover Frequency	4.0 kHz						
Network Type: Low Pass	12 dB p	12 dB per octave, 2nd order					
Network Type: High Pass	6 dB per octave, 1st order						
Enclosure Alignment	Sealed						
Enclosure Material	Drawn steel backcan with ABS baffle						
Grille	Painted Steel						
Inputs	18-Gauge hard wired leads						
Colors	Black or white						
Backcan Diameter	9.67 in / 245.6 mm						
Backcan Height	3.75 in / 95.3 mm						
Visible Diameter	11.75 in / 298.5 mm						
Visible Height	0.34 in / 8.6 mm						
Mounting Hole Diameter	10.50 in / 266.7 mm						
Min / Max Ceiling Thickness	0.035 in / 0.9 mm - 1.60 in / 40.6 mm						
Weight	7.0lb / 3.2kg						
Shipping Weight	8.0lb / 3.6kg						
Accessories							
Included	Tile bridge, UL listed flex conduit clamp, paint shield,						
	hole template, wire nuts						
Optional	Pre-Cor	Pre-Construction Bracket (AC-CMEZ6/8-PCB); Junction					
		box (AC-CM-EZ-JBOX)					
Packaging	1 per box						
Regulatory - UL	1480 &	1480 & 2043 Approved					
Regulatory - CE	Approved						
1w1m sensitivity determined using nominal impedance		ormer Taps	1				
² Frequency response measured in half or full space as dictated by speaker mounting		Output		Output	25 V	Output	
	32 w	105.5 dB	32 w	105.5 dB	4 w	96.5 dB	
configuration	16 w	102.5 dB	16 w	102.5 dB	2 w	93.5 dB	
3 Max program power is 3 dB above max continuous power	8 w	99.5 dB	8 w	99.5 dB	1 w	90.5 dB	
Continuous power rating, EIA-426-B test Max output based on max continuous power Max useable SPL based on testing by NWAA Labs	4 w	96.5 dB				87.5 dB	

Key Features

- Engineered for applications with limited plenum space incorporating a Sound-Tube-specific shallow backcan with an installed depth of only 3.5 inches.
- One 165 mm (6.5 in) treated fiber woofer with cloth surround and one 25.4 mm (1.0 in) silk tweeter.
- Reduced amplification costs with maximum efficiency including 90.5 dB sensitivity and 16 Ohm impedance.
- Superior voice intelligibility with a 10 kHz coverage angle of 80° (Independently verified).
- Easy-access 5-position tap switch for 25/70.7/100 Volt and 16 Ohm settings allows for easy ordering, stocking and installation.
- Incorporates a painted steel grille for lasting durability.
- UL 1480 & 2043, cUL, CE (EMC Directive 89/366/EEC, EN55020, EN55013)
- Adaptable to material thicknesses ranging from 0.04 in (0.9 mm) to 1.60 in (40.6).
- · Included accessories: Tile bridge, UL listed 0.5" flex conduit clamp, paint shield & 2 wire nuts.
- Optional accessories: Color-coded (green) pre-construction bracket (AC-CMEZ6/8-PCB); Junction box (AC-CM-
- High-quality black or white painted finish. Custom colors available.

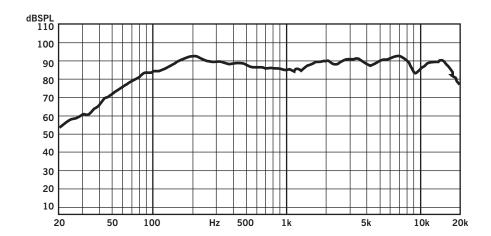
Description

The CM62-EZs is a 6.5" coaxial 2-way blind-mount in-ceiling speaker which delivers true high efficiency and performance across the operating bandwidth. By incorporating a 6.5" treated-fiber driver with cloth surround in a sealed drawn steel backcan, this speaker delivers maximum frequency response (75 Hz – 22 kHz, - 10 dB) in a compact design.

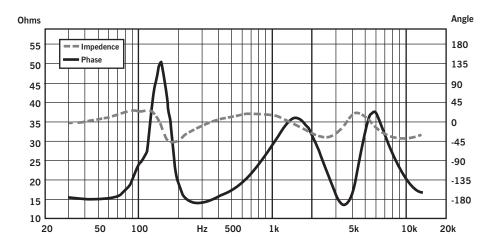
Mounting hardware is included and features a constant-tension mounting system with a 21 gauge "full-metal" steel tile bridge ensuring rapid and secure installation in any sheetrock or drop-tile application. For easy ordering, stocking and installation, this series includes a color-coded (green) tile bridge and optional pre-construction bracket and a 5-position tap switch for 25, 70.7 & 100 V applications with voice coil/16 Ohm bypass.



Frequency Response



Phase/Impedance Reponse



Applications

Developed specifically for the paging and background music applications where cost, quality and fit are paramount, the CM62-EZs is ideal for hotels, retail stores, restaurants, airports, churches (under eave) or boardrooms. Indeed, the entire CM-EZ series is engineered for installations where high-efficiency and rapid installation are critical attributes. For applications requiring additional bass response, SoundTube's CM1001d subwoofer provides true lowend response down to 50 Hz.

Patented SoundTube **Technologies**

SoundTube Entertainment and the MSE Audio Group constantly develop new technologies which enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. & international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. The MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end-users.

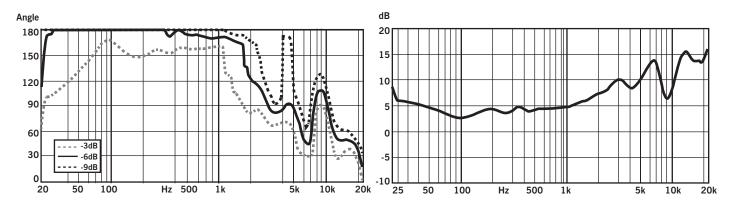
Technical Data and **Specification Tools**

Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at www.soundtube.com and includes EASE™ Data – 3-D polar plots and SoundTubeSPECTM - Proprietary SoundTube speaker placement software.

Beamwidth

Directivity Index (DI)





Independent Data Acquisition & Verification

All data for SoundTube speakers is independently collected from and verified by NWAA Labs (www.nwaalabs. com) using their proprietary MACH testing system. All data is collected and analysed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x, GLL and CLF.

Architectural Specifications

The loudspeaker shall consist of one 165 mm (6.5 in) low-frequency transducer and one 25.4 mm (1.0 in) high-frequency transducer with a frequency dividing network installed in a sealed enclosure. The low-frequency voice coil diameter shall be 25 mm (1 in). The low-frequency transducer shall have a treated fiber cone material with cloth surround. The high-frequency transducer shall be constructed of silk material using a balanced-dome configuration.

Performance specifications of a typical production unit shall be as follows: Usable frequency range shall extend from 75 Hz - 22 kHz, -10 dB. The loudspeaker shall be available with selectable 25/70.7/100 Volt and 16 Ohm/voice coil direct tap switch. The frequency dividing network shall have a crossover frequency of 4.0 kHz. Rated power capacity of the components and network shall be at least 50 Watts continuous RMS power and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be at least 107.5 dB.

The backcan shall be constructed of galvanized steel with an ABS plastic baffle. The grille shall be constructed of painted steel. Shipped complete with UL-listed flex conduit clamp, color coded tile bridge (to match color-coded backcan), grille, wire nuts, cut-out template and paint shield, the integrated CM62-EZs in-ceiling speaker is engineered for high performance and rapid installation in plenum spaces. The CM62-EZs incorporates a secondary attachment point for added security, or

where required by code.

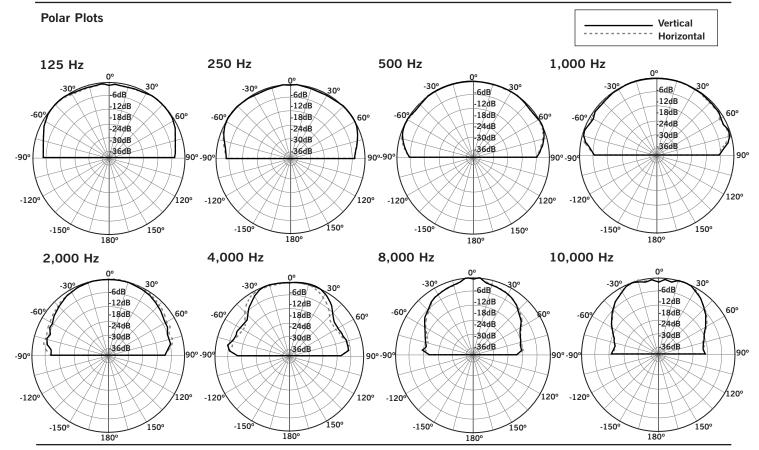
Installation for the CM62-EZs shall be by 2-screw blind-mount constant-tension winged assembly and shall attach to ceiling thicknesses ranging from 0.04 in to 1.6 in. The external wiring shall be hardwired using wire nuts accepting up to three 18-gauge wires.

The CM62-EZs is factory preset to the 32 Watt setting in the 70.7 Volt operating mode. The system shall be the SoundTube CM62-EZs for both low & high impedance applications.

SoundTube Entertainment

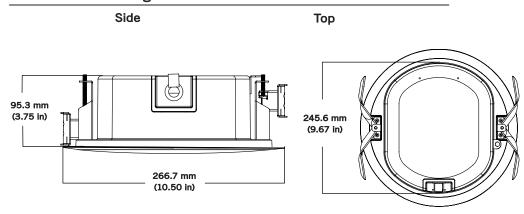
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All SoundTube products come with a 5-year limited warranty.

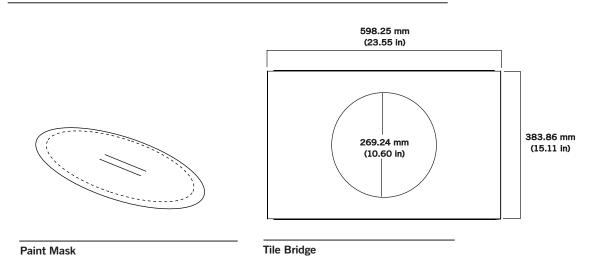




Mechanical Drawings



Included Accessories



Optional Accesories

