

# IP-CM82-BGM

8.0" COAXIAL  
IN-CEILING  
BACKGROUND  
MUSIC  
SPEAKER

**SOUNDTUBE**  
ENTERTAINMENT



## Specifications: IP-CM82-BGM

## Mounting hardware included

|                                                            |                                                    |
|------------------------------------------------------------|----------------------------------------------------|
| Sensitivity dB @ 2.83V/1M                                  | 89 dB                                              |
| Sensitivity dB @ 1W/1M (2)                                 | 89 dB                                              |
| Frequency Response ( $\pm 3$ dB)                           | 70Hz-18kHz                                         |
| Frequency Response ( $\pm 10$ dB)                          | 55Hz-22kHz                                         |
| Max. Program Power                                         | 128 W                                              |
| Max. Continuous Power RMS                                  | 64 W                                               |
| Power Output                                               | 40 W                                               |
| Max. Power SPL @ 1 M                                       | 107 dB                                             |
| Directivity Factor (Q) (Averaged 100Hz - 10kHz, @ 2kHz)    | 5.4 (averaged 100 Hz - 10 kHz) ; 7.2 (2 kHz)       |
| Directivity Index (DI) dB (Averaged 100Hz - 10kHz, @ 2kHz) | 5.5 dB (averaged 100 Hz - 10 kHz) ; 8.6 dB (2 kHz) |
| Transducer - Low Frequency Driver                          | 8" Polypropylene Cone w/ Butyl Rubber Surround     |
| Transducer - High Frequency Driver                         | 1" Silk Dome                                       |
| Network Type: Low Pass                                     | 12 dB per octave, 2nd order                        |
| Network Type: High Pass                                    | 12 dB per octave, 2nd order                        |
| Colors                                                     | White / Custom                                     |
| Connections                                                | Four position ceramic terminal strip               |
| Inputs                                                     | RJ45 ethernet port                                 |
| Backcan Diameter                                           | 245.6 mm / 9.67 in                                 |
| Backcan Height                                             | 203.2 mm / 8 in                                    |
| Visible Diameter                                           | 298.5 mm / 11.75 in                                |
| Visible Height                                             | 8.6 mm / 0.34 in                                   |
| Mounting Hole Diameter                                     | 266.7 mm / 10.5 in                                 |
| Weight                                                     | 4.1 kg / 9 lbs                                     |
| Shipping Weight                                            | 4.5 kg / 10 lbs                                    |
| Accessories Optional                                       | Pre-Construction Bridge (AC-CM6-8EZ-PCB)           |
| Packaging                                                  | One per box                                        |
| Regulatory - UL                                            | Pending 1480 & 2043                                |

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Regulatory - CE  
Regulatory - RoHS

## Mounting hardware included

approved  
approved

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## Description

One 8.0 inch (203 mm) polypropylene woofer with butyl rubber surround and one 1.0 inch (25 mm) silk dome tweeter. BroadBeam Ring™ technology for mid-range clarity and smooth off axis performance. Tuned port on baffle for added musicality and bass response down to 55 Hz (-10 dB). Reduced amplification costs and maximum efficiency of 86.0 dB sensitivity, 16 ohm impedance. Incorporates a painted steel grille for lasting durability. Adaptable to material thicknesses ranging from 0.035 inch (0.9 mm) to 1.6 inch (40.6 mm). UL 60065 & UL 2043 listed. Included accessories: Tile bridge, UL listed 0.5-inch conduit clamp, paint shield. Includes 40 watt bi-amplified speaker with DSP and CobraNet for audio distribution and feedback on speaker condition. Equipped with RJ45 ethernet connector and 24V DC barrel connector for local power (non-PoE installation).

## Patented

## SoundTube Technologies

SoundTube and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dispersion, enclosure and dome technologies. 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](http://www.soundtube.com). Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit®

software Tech Sheets - Technical information and architectural specs for system engineers  
SoundTubeSPEC™ - Proprietary speaker placement software

## Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAALabs ([www.nwaalabs.com](http://www.nwaalabs.com)) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

## Architectural Specifications

No specifications currently.

### SoundTube

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<http://soundtube.mseaudio.com>  
All SoundTube products come with a 5-year limited warranty.

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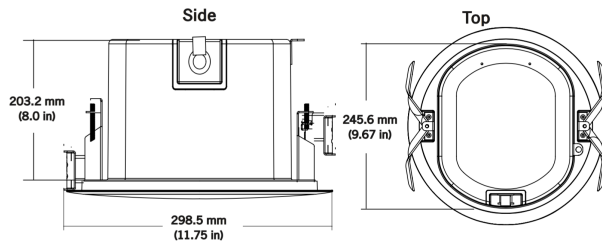
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## Mechanical Drawings



## Included Accessories



**Tile Bridge (?)**

**UL-Listed Flex Conduit  
Clamp**

**Paint Shield**

## Optional Accessories



**Pre-Construction Bridge (AC-CM6-8EZ-PCB)**