

CM5EH
Instruction manual

CM5EH manual



Introduction

- Please read this manual carefully before using the product. This will give you the necessary product and installation instructions to assure a seamless installation and non-compromised overall sound quality.
- The CM5EH is a modern and very competitive built-in loudspeaker, featuring a dual power 100 Volt speaker line transformer as well as a direct 8 ohms connection, allowing you to connect up to 2 speakers in parallel per 4Ω stable amplifier channel. Easy to integrate in high quality BGM systems, this speaker offers a soundstage, unheard in this price range.
- For 100 Volt use, the CM5EH is equipped with a high quality 3/6 Watt 100 Volt transformer. Therefore, the speaker can be used in almost every application requiring BGM sound levels.
- CM5EH is the ideal speaker for background music distribution and has a very good speech intelligibility factor, making it your number one choice. In the office, the bathroom or the local library...
- The housing and grille are made from high quality ABS, with mounting clamps (which don't require any tools!) for the chassis and foolproof grille mounting. The woofer has a moisture proof coating and reinforced paper cone.

Safety precautions

- Keep this manual for future reference.
- When making the hole in your mounting panel to mount the APart CM5EH speaker, make sure there is sufficient clearance behind the panel (no obstructions like A/C channels, power lines etc).
- Take care of your speaker wires; they should be free of damage. Damaged speaker wires may result in poor sound quality and can damage amplifiers.
- Only use accessories specified by the manufacturer.
- Make sure the mounting panel can support the speaker's weight.
- Use a sufficient amount of speakers to avoid death-spots.
- No mains power shall be connected to the loudspeakers, doing so will damage the speaker.
- This apparatus should only be serviced by qualified personnel. If not serviced by qualified personnel, warranty might be void.
- Use cable of the right gauge, certainly for long runs.
- Use cables with clear color indication and maintain polarity throughout the whole system.
- Avoid loud feedback from microphones, as it can damage your speaker.

- Please check the the packaging for any kind of damage upon reception of the goods. If the packing is damaged, please contact your local dealer before opening it.
- Please note that this speaker is meant for indoor use only!

Recommended applications

- Bathrooms.
- Hallways.
- Boutiques.
- Board rooms & Offices.

Connecting the speaker to a 100 Volt speaker line

The speaker can be connected to 100 Volt speaker lines and has a power of 3 or 6 Watts. Select 3 or 6 Watts, according to the application. Never connect the 3 and 6 Watt wires simultaneously!

Transformer wires are color-coded:

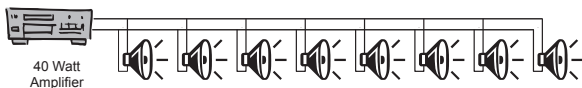
Black = common. Connect to 100 Volt speaker line common (ground)

Red = 3 Watt, connect to 100 Volt speaker line positive (plus)

Yellow = 6 Watt, connect to 100 Volt speaker line positive (plus)

In 100 Volt systems, total system power is the sum of all speakers in the system, e.g.

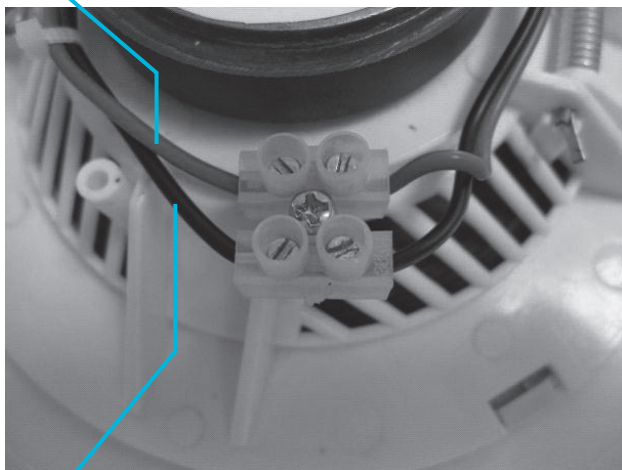
$$33 \text{ Watt} \geq 6 + 6 + 6 + 3 + 3 + 3 + 3 + 3$$



The 100 Volt amplifier output power must be equal or higher than the total speaker power!

Connecting the speaker to a Low-Z amplifier

First, disconnect the red and black wires from the transformer to the speaker interconnection:



Connect the Low-Z speaker wire to the free end of the connector. Black wire = common (ground), red wire is speaker + wire. The impedance of the speaker is 8 ohms. You can connect two speakers in parallel on a standard 4 ohm capable amplifier.

Mounting the loudspeaker

The loudspeaker is very easy to install, due to the simple mounting system which does not require any tools, with 2 hidden spring loaded clamps. Open the clamps with 2 hands, carefully slide the speaker in place and release the clamps while positioning the speaker in the middle of the cut-out. Cut-out diameter is 160 mm.

Technical specifications:

Speaker type	5 inch coated paper cone
Rated power RMS	6 W – 3 W @ 100 V
Rated RMS power Lo-Z	15 W
Music power Lo-Z	30 W
Nominal impedance	1666 Ohms/6 W/100 V – 3333 Ohms/3 W/100 V - 8 Ohms/ Low-Z
Frequency range	100 – 18000 Hz
Sensitivity	89 dB spl 1W/1m
Dispersion at 1 kHz	160°
Dispersion at 4 kHz	90°
Chassis color	white
Chassis type	plastic
Grille material	plastic

Removable grille	yes
Fixing type	spring loaded clamps
IP classification	54
Dimensions outside Ø	187 mm
Dimensions cutout Ø	160 mm
Mounting depth	45 mm
Total depth including mounting frame and grille	50 mm
Speaker weight	0.5 kg

Warranty info

Apart-Audio warrants this product to be free of defects in material and workmanship for a period of one year for parts and for a period of one year for labor from the date of original end-user purchase. This warranty is valid only for the original end-user and cannot be transferred.

During the warranty period, Apart-Audio or one of its authorized service partners shall either repair or replace any product that proves to be defective upon inspection by Apart-Audio or its authorized service representative, free of charge.

This warranty does not include damages or product faults due to abuse, misuse or faulty installation.

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Apart-Audio specifications are subject to change without notice.

