

CELO5

User & Installation Manual



www.audac.eu

Introduction

5" High–end Slim Ceiling Speaker

The CELO5 is the 5" version of AUDAC's CELO High–end Slim ceiling speaker series with an RMS power of 50 Watt and Maximum power of 100 Watt, consisting of a 5" aluminum cone woofer with 1" aluminum cone tweeter.

Due to its slim grill design with very thin border of only 1 mm and a limited grill depth which extrudes from the ceiling surface by only 3.2 mm, these speakers will become nearly invisible when mounted. To make them blend in even more, they can be painted in the same colour as the surrounding surface. This elegant and unobtrusive grill is held in place by means of powerful neodymium magnets, making assembly and disassembly very simple, but still reliable enough for keeping the grill in place during the complete lifetime of the loudspeaker.

When the grill is removed, it's clear for anyone to see that the CELO speakers are made by using only the highest quality materials, guaranteeing an unsurpassed sound experience. One 1" Aluminum cone tweeter is held in place by an acoustically optimized arm in front of a 5" Aluminum cone woofer. Together with the crossover network which is made of high–quality components, this results in true to nature sound reproduction for a warm and detailed sound with an RMS power of 50 Watt.

To guarantee a lifetime stability, secure mounting and easy installation, the loudspeaker connection is made using Gold plated spring clamp connectors. The mounting of the loudspeaker into the ceiling should be done by a quick–fixing mechanism which can be tightened by four screws. The front grill is held into place by neodymium magnets.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

- ALWAYS KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE. NEVER THROW THEM AWAY
- ALWAYS HANDLE THIS UNIT WITH CARE
- CLEAN ONLY WITH DRY CLOTH
- HEED ALL WARNINGS AND FOLLOW ALL INSTRUCTIONS
- NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE
- DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT
- DO NOT PLACE THIS UNIT IN ENVIRONMENTS WITH A HIGH LEVEL OF DUST, HEAT, MOISTURE OR VIBRATION
- THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS
- ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER.
- ONLY INSTALL THE SPEAKER IN LOCATIONS THAT CAN STRUCTURALLY SUPPORT THE WEIGHT OF THE SPEAKER. IGNORING THIS CAN BRING THE SPEAKER DOWN.
- DO NOT USE ANY OTHER METHOD THAN SPECIFIED TO MOUNT THE SPEAKER. IF EXTREME FORCE IS APPLIED TO THE SPEAKER, IT COULD FALL DOWN
- CAREFULLY CHECK THE UNIT'S CONDITION AFTER UNPACKING. IF THERE IS ANY DAMAGE TO THE CARTON BOX OR THE UNIT ITSELF, INFORM YOUR VENDOR IMMEDIATELY.

CAUTION

- USE CABLES OF THE RIGHT GAUGE TO CONNECT THE LOUDSPEAKER
- USE CABLES WITH CLEAR COLOUR CODING INDICATING THE POLARITY AND MAINTAIN THE SAME POLARITY THROUGHOUT THE WHOLE SYSTEM.
- ONLY USE THE CORRECT AMPLIFIER OUTPUT VOLTAGE AND IMPEDANCE. EXCEEDING THESE LIMITS COULD CAUSE FIRE OR OTHER FAILURES.
AVOID EXPLOSIONS: DO NOT USE THE SPEAKER AROUND GASOLINE, THINNER OR OTHER COMBUSTIBLES
- AVOID ELECTRIC SHOCKS: SWITCH OFF THE AMPLIFIER WHEN CONNECTING THE LOUDSPEAKER
- DO NOT USE THE LOUDSPEAKER FOR AN EXTENDED PERIOD OF TIME AT DISTORTED SOUND. THIS COULD CAUSE PERMANENT DAMAGE.



CAUTION – SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to do so.)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2004/108/EC (EMC) and 2006/95/EC (LVD)



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its product life. This regulation is created to protect both the environment and human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product to your local collection point or recycling centre for electrical and electronic waste. This will make to sure that it will be recycled on an environmentally friendly manner, and will help to protect the environment in which we all live.

Installing the CELO

Introduction

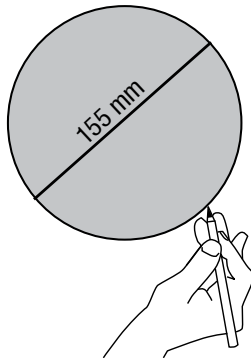
The CELO speakers feature a quick-fixing mechanism, which allows quick and easy installation of the loudspeakers in only a few minutes.

The installation of the CELO speakers requires a minimum amount of installation skills. Before the loudspeaker is installed, the location where it will be mounted should be carefully checked to make sure the surface can support the weight of the speaker and no lines for water, gas, electricity or other supplies are crossing this point.

Installation procedure

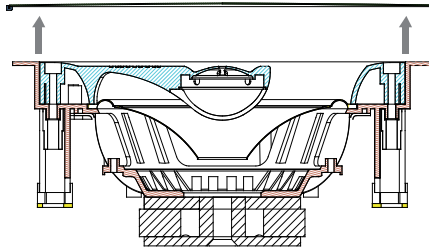
To ensure a safe and secure mounting of the loudspeaker, the installation should be done according to the procedure described below:

1) Firstly cut a hole in the ceiling on the desired mounting location of the loudspeaker with a diameter of 155 mm. The included cutout template can be used for an easy marking of the installation hole.



2) Provide the loudspeaker connection cable through the mounting hole in the ceiling. Make sure the used connection cable is sufficiently thick. The required cable thickness depends on its length.

3) Take the loudspeaker, and remove the front grill which is held in place by neodymium magnets. The front grill can be easily removed by gently pulling it.



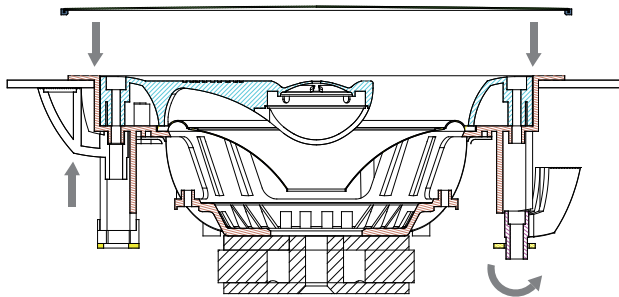
4) Connect the loudspeaker connection cable to the gold plated spring clamp connectors. Press the button of the corresponding terminal down and insert the connection cable. After releasing the button, the cable is connected to the loudspeaker. The Red terminal indicates positive (+) pole and the Black terminal indicates the negative (-) pole.

Mind the polarity markings when wiring the loudspeaker cables.

Maintain the same polarity and wiring colour coding throughout the entire system to avoid any mistakes causing malfunction or distortion.

5) Once the connections are made, the loudspeaker can be installed in the provided mounting hole. Make sure the mounting clips of the loudspeaker are rotated inwards, making the speaker fit through the hole in the ceiling. Insert the speaker through the provided mounting hole, and use a screwdriver for tightening the fixing screws.

Once the screws are tightened a quarter turn, the mounting clip will rotate outwards and will be locked behind the ceiling. From then on, the loudspeaker is anchored in the ceiling and thus can not fall.



6) After the screws are tightened and the speaker is level with the ceiling, the front grill can be assembled to the loudspeaker.

Additional Information

Technical specifications

RMS Power	50 Watt
Max. Power	100 Watt
Nominal impedance	8 Ohm
Sensitivity 1W / 1m	85 dB
Sound pressure Max W / 1m	102 dB
Frequency response -3 dB	70 Hz – 20 kHz
Cross-over frequency	3.0 kHz
Cross-over network	Passive Built-in
Drivers	1" HF Alu tweeter 5" MF / LF Alu woofer
Connectors	Gold plated spring clamps
Mounting	4-Screw Quick-Fixing Mechanism
Construction	High-Quality ABS
Front finish	White Thin edge grill (RAL9003) (1 mm width x 3.2 mm height edge)
Dimensions	Ø 175 x 98 mm
Cut-out measurement	Ø 155 mm
Built-in depth	95 mm
Weight	1 Kg
Packaging	Carton box
Shipping weight & Volume	1.5 Kg – 0,0069 Cbm
Accessories included	Cut-out template Instruction manual