



PURERESONANCEAUDIO[®]

C6 6.5" CEILING MOUNT SPEAKER

INSTALLATION AND OPERATION MANUAL



Caution: Please read this manual carefully before operating.
Damage caused by misuse is not covered by the warranty.

SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use. The included conventions of safety symbols and messages are regarded as essential precautions.
- We recommend keeping this instruction manual handy for future reference.

SAFETY SYMBOL AND MESSAGE CONVENTIONS

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage that could result from mishandling. Before operating this product, read this manual first and understand the safety symbols and messages to be thoroughly aware of the potential safety risks.



WARNING!

Indicates a potentially hazardous situation that, if mishandled, could result in death or serious personal injury.



CAUTION!

Indicates a potentially hazardous situation that, if mishandled, could result in moderate or minor personal injury and/or property damage.



WARNING!

IMPORTANT SAFETY INSTRUCTIONS

*****THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED TECHNICIAN.
THE PROVIDED INSTALLATION HARDWARE MUST BE USED TO INSTALL THIS PRODUCT.
THIS PRODUCT MUST BE SECURED WITH A SAFETY CABLE.*****

Pro Acoustics is not responsible for the structural integrity of the installation. Please ensure that a qualified technician installs this product and that the building's engineer or architect has approved the equipment and installation.

- The product must be securely attached per the installation instructions to prevent injury. When installing, follow all safety standards and regulations.
- DO NOT install the product in areas with water, high humidity, excessive dust, or direct sunlight.
- DO NOT install the product near electricity, smoke, steam, or any heat source such as stoves, radiators, heat registers, or other devices producing heat.
- DO NOT place any naked flame sources, such as candles, close to the product.
- DO ensure wires are not damaged or frayed when installing the product.
- DO NOT connect the product while your hands are wet, as this may lead to electric shock.
- DO ensure the amplifier is turned off and unplugged when connecting the product.
- DO ensure the wire connector is removed without pulling out the wires when connecting/disconnecting the product, as this can strain or damage the wire. Contact with bare wires, when energized, can lead to electrical shock.
- DO ensure that the area where the product will be installed is structurally sound, free from any signs of damage or structural issues, and capable of supporting the product's weight and mounting hardware.
- USE hardware and accessories as indicated by the manufacturer.
- REFER all servicing to qualified service personnel. Servicing is required when the product is damaged, does not operate normally, or has been dropped.

*No user-serviceable parts inside. Refer all servicing to qualified personnel.

*Changes or modifications not expressly approved by the manufacturer may void the user's warranty.

DESCRIPTION

The Pure Resonance Audio C6 is a 6.5" 2-way high-performance ceiling mount loudspeaker in a compact design. This 70V ceiling speaker delivers full-range, high-quality sound ideal for background music or paging in commercial environments. With a built-in 30-watt 70-volt transformer and an 8-ohm bypass, the C6 is perfect for a wide range of applications, including business offices, retail stores, restaurants, classrooms, and conference rooms. The ABS enclosure with an iron back barrel contains a 6.5" woofer and an adjustable 1" tweeter with a bezel-less magnetic iron grill.

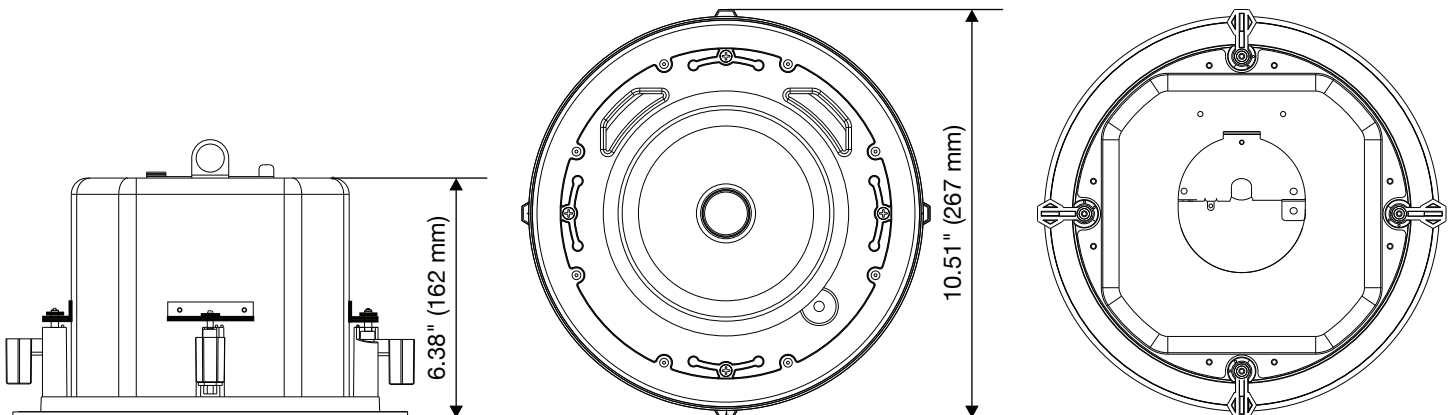
FEATURES

- Seamlessly blends into the ceiling with the bezel-less magnetic grille
- 30 Watt 70 Volt / 100 Volt transformer with 8Ω bypass
- 88 dB sensitivity provides quality sound
- 6.5" Polypropylene woofer and 1" adjustable silk tweeter
- Front-accessible tap selector for easy access
- Easy and secure installation with 4 doglegs and optional tile bridge
- Recessed 4-pin Euroblock screw terminal connector

SPECIFICATIONS

Power Rating	30 Watts RMS; 90 Watts Peak
Frequency Response (± 10 dB)	90Hz - 20kHz
Sensitivity (@ 1w/1m)	88 dB
Max SPL	102 dB
Dispersion	Conical 150°
Impedance	8 Ohms
Transformer Taps	70V: 1.8W, 3.75W, 7.5W, 15W, 30W 100V: 3.75W, 7.5W, 15W, 30W 8 Ohm Bypass
Woofers	6.5" Polypropylene (PP)
Tweeter	1" Silk (adjustable)
Grille	Power-coated iron mesh removable magnetic
Material	ABS enclosure with iron back barrel
Connection	4-pin Euroblock
Mount	4 Doglegs
Cutout Size	9.13" (231.9 mm)
Dimensions (H x W x D)	6.38" (162 mm) x 10.51" (267 mm) x 10.51" (267 mm)
Weight	7.28 lbs (3.3 kg)
Shipping Dimensions (H x W x D)	9.65" (245 mm) x 12.4" (315 mm) x 12.2" (310 mm)
Shipping Weight	10 lbs (4.54 kg)

DIMENSIONAL DIAGRAMS



INSTALLATION & OPERATION GUIDE

SPEAKER PLACEMENT

Proper speaker placement is key to achieving balanced, even sound coverage throughout your space. Consider the following guidelines when planning your installation:

- For broad, consistent audio coverage, it's better to use more speakers at lower volume rather than fewer speakers at higher volume.
- Position speakers as close as possible to the primary listening areas. The perceived volume drops significantly as the distance between the speaker and the listener increases.

MOUNTING THE SPEAKER

Before beginning installation, carefully review all instructions and take accurate measurements to ensure proper placement and fit.

- Measure and mark the desired speaker location on the ceiling or ceiling tile.
- Cut a hole using the specified cutout size: 9.13" (231.9 mm) in diameter.
- If installing in a drop tile ceiling:
 - Remove the ceiling tile first to make cutting easier and more precise.
 - Use the available tile bridge to provide additional support and prevent damage.
- Insert the speaker into the cutout hole. The four doglegs will swing out and clamp against the back of the ceiling surface.
- Tighten the mounting screws to engage the doglegs. **Do not over-tighten.**

CONNECTING THE SPEAKER TO YOUR SYSTEM

1. Measure and record the approximate cable length required to reach from your amplifier to the first speaker and from each speaker to the next (if applicable).
2. Open the protective cover on the back of the speaker to access the removable Euroblock terminal.
PLEASE NOTE: The 4-pin Euroblock connector allows both input and output connections, making it easy to daisy-chain additional speakers in 70V applications.
3. Strip the speaker wire and connect the negative (-) wire to the **second pin (IN -)** and the positive (+) wire to the **third pin (IN +)** on the Euroblock.
4. Connect the other end of the speaker wire to the amplifier output, ensuring the positive (+) and negative (-) connections match at both ends.
5. If daisy-chaining additional speakers, connect the output wires to the **first pin (LOOP -)** and **fourth pin (LOOP +)** on the Euroblock of the first speaker, then run those wires to the corresponding **input pins (IN - and IN +)** on the next speaker in the chain, maintaining correct polarity throughout.
6. Select the desired tap setting using the tap selector dial located on the front of the speaker behind the removable magnetic grill.
7. Turn on the amplifier and test the system to ensure all speakers operate correctly and produce audio at the desired volume level.
8. Once the system is verified, place the magnetic grille on the front of the speaker(s).

PLEASE NOTE: Ensure no stray wire strands from the (+) and (-) connections are exposed or touching each other. Stray strands can cause a short circuit, which may damage the amplifier.

SPEAKER CONNECTIONS

Figure 1.

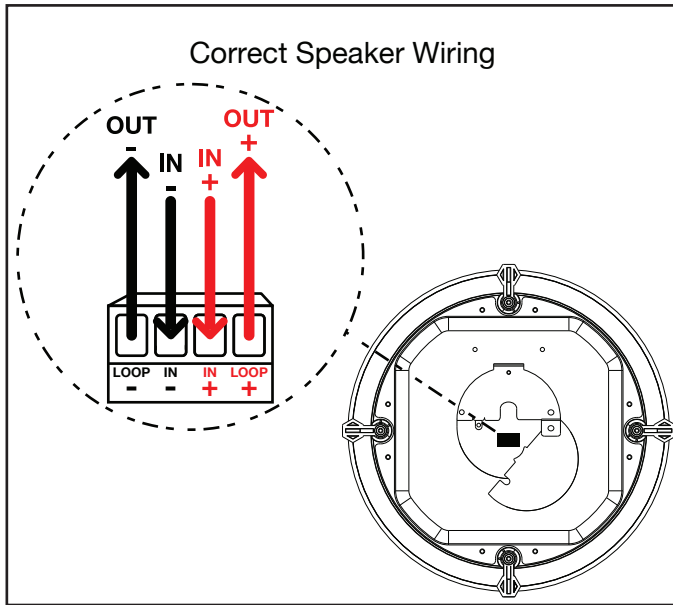
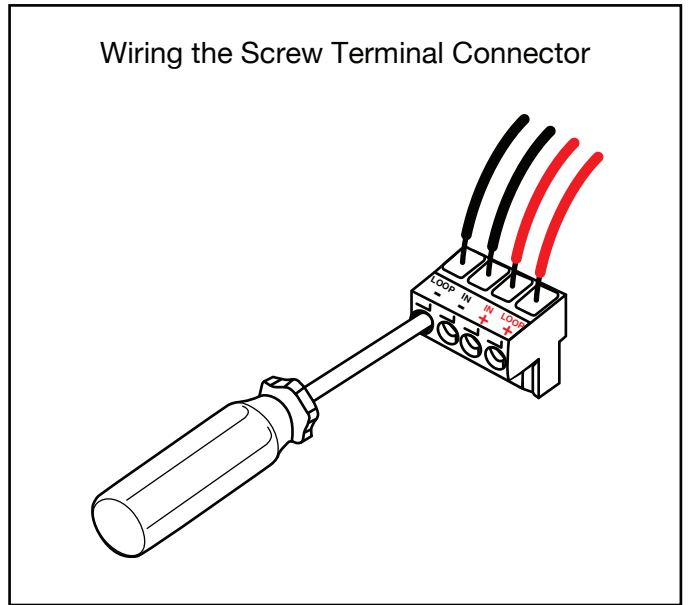


Figure 2.



Be careful not to cross wires when installing your speakers.
Wiring should always be negative to negative and positive to positive.

SERVICE

In the event of a malfunction, ensure the problem is not related to operator error or system devices external to this unit. Once it is certain that the problem is related to the product, contact your warranty provider as described in the warranty section of this manual.

LIMITED WARRANTY

PRO ACOUSTICS, LLC. ("PRO ACOUSTICS") warrants this product to the original purchaser to be free from defects in materials and workmanship (subject to the terms set forth below) for the following periods from the date of purchase.

THIS WARRANTY COVERS THE LISTED PRODUCTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR THE FOLLOWING PERIOD

WARRANTY TERMS	
Speakers	2 Years
Amplifiers & Electronics	1 Year
Microphones	1 Year
Accessories	1 Year

PRO ACOUSTICS will repair or replace this product (at PRO ACOUSTICS's option) or any defective parts (excluding electronics and amplifiers) in this product.

Your authorized PRO ACOUSTICS dealer will inspect the product, and if your dealer is not equipped to perform the repair of your PRO ACOUSTICS product, they will replace your product or return it to PRO ACOUSTICS for repair at their discretion. Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from this product. This warranty is invalid if this product was not purchased from a PRO ACOUSTICS authorized dealer. This warranty does not cover cosmetic damage or damage due to the accident, acts of God, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This warranty does not cover damage due to improper operation, maintenance, installation, or attempted repair by anyone other than PRO ACOUSTICS or a PRO ACOUSTICS dealer that is authorized to do PRO ACOUSTICS warranty work. Any unauthorized repairs will void this warranty.

This warranty does not cover products sold as is.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. PRO ACOUSTICS U.S.A. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

Specifications may change without notice.

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