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E-Audio B412A

E-Audio B412A 6.5-inch 2-Way White Ceiling Speakers Instruction Manual

Model: B412A

1. Introduction

Thank you for purchasing the E-Audio B412A 6.5-inch 2-Way White Ceiling Speakers. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new speakers. Please read these instructions thoroughly before installation and retain them for future reference. These 2-way ceiling speakers are designed for various audio applications, including home cinema, surround sound systems, and multi-room audio setups in both domestic and commercial environments. Their moisture-resistant design makes them suitable for use in areas like kitchens and bathrooms. Each speaker features a 1/2-inch high polymer tweeter for clear sound reproduction and a durable rubber-edge bass speaker for enhanced low-frequency response.

2. Safety Information

To ensure safe operation and prevent damage, please observe the following safety precautions:

- **Installation:** Installation should only be performed by qualified personnel. Ensure all wiring is correctly connected and insulated to prevent electrical hazards.
- **Power:** These are passive speakers and require connection to an external amplifier. Do not connect directly to mains power. Ensure the amplifier's power output matches the speaker's rated power to avoid damage.
- **Moisture:** While moisture-resistant, these speakers are not fully waterproof. Avoid direct exposure to water jets or submersion.
- **Placement:** Ensure the mounting surface can adequately support the weight of the speakers. Avoid installing near heat sources or in areas with extreme temperatures.
- **Cleaning:** Disconnect from the amplifier before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.

- **Ventilation:** Ensure adequate airflow around the speakers if installed in an enclosed space, although ceiling speakers typically have sufficient passive cooling.

3. Package Contents

Verify that all items are present in the package:

- E-Audio B412A 6.5-inch 2-Way White Ceiling Speakers (Pair)
- Cutting Template (for installation)
- Instruction Manual (this document)

4. Product Features

- 6.5-inch 2-way design for balanced audio reproduction.
- Moisture-resistant construction, suitable for kitchens and bathrooms.
- 1/2-inch high polymer tweeter for clear high frequencies.
- Durable rubber-edge bass speaker for enhanced low-frequency response.
- Easy installation with included cutting template.
- Designed for home cinema, surround sound, and multi-room audio systems.
- Sold as a pair.

5. Setup and Installation

Follow these steps for proper installation of your E-Audio B412A ceiling speakers:

1. **Plan Placement:** Determine the optimal location for your speakers in the ceiling, ensuring adequate space and avoiding obstructions like joists or electrical wiring.
2. **Prepare the Opening:** Use the included cutting template to mark the exact circular opening on the ceiling. Carefully cut the hole using an appropriate tool.
3. **Run Speaker Wire:** Route high-quality speaker wire from your amplifier to each speaker opening. Ensure sufficient length for connections.
4. **Connect Speaker Wires:** Connect the speaker wires to the terminals on the back of each speaker. Pay close attention to polarity (+ to + and - to -) to ensure correct phase and optimal sound quality.
5. **Secure Speakers:** Insert the speaker into the prepared ceiling opening. The speaker features mounting clamps that will secure it in place. Tighten the screws on the front baffle (or side, depending on design) to engage the clamps and firmly hold the speaker against the ceiling. Do not overtighten.
6. **Attach Grille:** Once the speaker is securely mounted, attach the magnetic grille to the speaker baffle.
7. **Connect to Amplifier:** Connect the other end of the speaker wires to the corresponding speaker outputs on your audio amplifier.

Image: A pair of E-Audio B412A ceiling speakers, illustrating their design with one speaker showing the protective grille and the other revealing the internal components (woofer and dual tweeters).

6. Operating Instructions

Once the speakers are installed and connected to your amplifier:

1. **Power On:** Turn on your audio amplifier.
2. **Select Source:** Choose your desired audio source on the amplifier (e.g., CD player, streaming device, TV).
3. **Adjust Volume:** Start with the amplifier volume at a low level and gradually increase it to your preferred listening level.
4. **Audio Settings:** Adjust bass, treble, and balance settings on your amplifier as desired for optimal sound.

These speakers are designed to work with most multi-room amplifiers, providing a versatile audio solution.

7. Maintenance

Proper care will ensure the longevity and performance of your speakers:

- **Cleaning:** Use a soft, dry, lint-free cloth to gently wipe the speaker grilles and frames. For stubborn dust, a slightly damp cloth can be used, but ensure no moisture enters the speaker components.
- **Avoid Chemicals:** Do not use harsh cleaning agents, solvents, or abrasive materials, as these can damage the finish or components.
- **Grille Care:** The grilles are removable for cleaning. Handle them carefully to avoid bending or damaging the mesh.

8. Troubleshooting

Problem	Possible Cause	Solution
No sound from speakers	Amplifier not powered on or source not selected. Loose or incorrect speaker wire connections. Amplifier volume too low. Faulty speaker wire.	Ensure amplifier is on and correct input is selected. Check all speaker wire connections at both the speaker and amplifier ends for proper polarity and secure fit. Increase amplifier volume gradually. Test with a different speaker wire if available.
Distorted or poor sound quality	Incorrect speaker wire polarity. Amplifier overdriven (volume too high). Poor audio source quality. Damaged speaker.	Verify speaker wire polarity (+ to + and - to -). Reduce amplifier volume. Test with a different audio source. Contact support if speaker damage is suspected.
One speaker not working	Loose connection to that specific speaker. Amplifier balance setting. Damaged speaker.	Check connections for the non-working speaker. Adjust amplifier balance settings. Swap speakers (if possible) to determine if the issue is with the speaker or the wiring/amplifier channel.

9. Specifications

Model Number	B412A
Speaker Type	2-Way Ceiling Speaker
Speaker Size	6.5 inches
Rated Power	60W per speaker (120W per pair)
Impedance	8 Ohm
Tweeter	1/2-inch High Polymer
Woofer Edge	Durable Rubber
Color	White
Moisture Resistance	Yes
Mounting Type	Ceiling Mount
Number of Items	2 (Pair)
Product Dimensions (per speaker, approx.)	31.4 x 25.2 x 23.8 cm (Package dimensions, individual speaker dimensions not provided)
Product Weight (per pair)	2.7 kg (5.95 lbs)

10. Warranty and Support

E-Audio products are manufactured to high standards and are warranted against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your retailer.
For technical support or service inquiries, please contact your local E-Audio distributor or the retailer from whom you purchased the product. Please have your model number (B412A) and proof of purchase ready.

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