

AtlasIED SD72WV

AtlasIED 8" Dual Cone in-Ceiling Speaker Instruction Manual

Model: SD72WV

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the AtlasIED 8" Dual Cone in-Ceiling Speaker with 25V/70V 5-Watt Transformer and 62-8 Baffle with Volume Control (Model SD72WV). This speaker is designed for commercial and residential audio applications, offering clear sound reproduction and flexible power tap options for various sound system requirements. It features an integrated volume control for convenient audio level adjustment.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these guidelines may result in property damage, personal injury, or electric shock.

- **Electrical Safety:** Installation should only be performed by qualified personnel in accordance with all local and national electrical codes. Ensure power is disconnected before making any electrical connections.
- **Mounting:** Ensure the ceiling structure can safely support the weight of the speaker. Use appropriate mounting hardware.
- **Environment:** Do not install the speaker in areas exposed to moisture or extreme temperatures, as it is not waterproof.
- **Transformer Taps:** Always ensure the correct transformer tap setting is selected for your amplifier and system voltage (25V or 70.7V) to prevent damage to the speaker or amplifier.

3. PRODUCT OVERVIEW

The AtlasIED SD72WV is an 8-inch dual cone in-ceiling speaker designed for high-quality audio distribution. It comes pre-assembled with a 25V/70V transformer and a 62-8 baffle, which includes an integrated volume control knob.



Figure 3.1: AtlasLED 8-inch in-ceiling speaker with white baffle and central volume control knob. This image displays the AtlasLED 8-inch in-ceiling speaker. It features a circular white baffle with a perforated grille covering the speaker cone. A small white knob, which serves as the volume control, is centrally located within the grille. The baffle also has four small holes for mounting screws.

Key Components:

- **8" Dual Cone Speaker:** Provides broad frequency response and clear audio.
- **25V/70V Transformer:** Allows for integration into constant voltage audio systems with multiple power tap settings (.25W, .5W, 1W, 2W, 5W).
- **62-8 Baffle:** An attractive CRS white powder-coated baffle designed for in-ceiling installation.
- **Volume Control:** A center-mounted knob on the baffle for convenient local volume adjustment. This knob can be incorporated or removed based on application requirements.

4. SETUP AND INSTALLATION

Professional installation is highly recommended for optimal performance and safety.

4.1 Pre-Installation Checklist:

- Verify ceiling material and thickness are suitable for in-ceiling speaker installation.
- Ensure adequate clearance behind the speaker for proper ventilation and wiring.

- Confirm amplifier compatibility with 25V or 70.7V constant voltage systems.
- Gather necessary tools: wire strippers, screwdriver, drill, measuring tape, safety glasses.

4.2 Wiring and Transformer Tap Selection:

The speaker is equipped with a multi-tap transformer for use in 25V or 70.7V constant voltage systems. The transformer has taps for .25W, .5W, 1W, 2W, and 5W. Select the appropriate tap based on your system's power requirements and desired volume level for each speaker.

1. **Disconnect Power:** Ensure all power to the audio system and installation area is turned off at the circuit breaker.
2. **Prepare Wiring:** Run speaker wire from your amplifier to the installation location. Use appropriate gauge wire for the distance and power level.
3. **Select Tap:** Connect the amplifier's positive (+) output to the desired wattage tap on the speaker's transformer. Connect the amplifier's negative (-) output to the common terminal on the speaker.
4. **Secure Connections:** Ensure all wire connections are secure and insulated to prevent short circuits.

4.3 Mounting the Speaker:

1. **Cut Opening:** Carefully cut a circular opening in the ceiling according to the speaker's specified cutout diameter. Refer to the product dimensions in the specifications section.
2. **Insert Speaker:** Gently insert the speaker assembly into the ceiling opening.
3. **Secure Speaker:** Use the provided mounting hardware (typically screws through the baffle holes) to secure the speaker firmly to the ceiling structure. Do not overtighten.
4. **Volume Control Knob:** If desired, attach the volume control knob to the central shaft on the baffle.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, operating the AtlasIED SD72WV speaker is straightforward.

- **Power On:** Restore power to your audio system.
- **System Volume:** Adjust the master volume on your amplifier or audio source to a moderate level.
- **Local Volume Control:** Use the integrated volume control knob on the speaker baffle to fine-tune the audio level for that specific speaker. Rotate clockwise to increase volume and counter-clockwise to decrease volume.
- **Transformer Tap Impact:** Remember that the selected transformer tap determines the maximum power (and thus maximum volume) the speaker can receive. If you require higher or lower overall volume from the speaker, you may need to adjust the transformer tap setting (requires disconnecting power and re-wiring).

6. MAINTENANCE

The AtlasIED SD72WV speaker requires minimal maintenance.

- **Cleaning:** To clean the baffle, gently wipe it with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the speaker grille. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the speaker for any visible damage or loose connections.

7. TROUBLESHOOTING

If you experience issues with your speaker, refer to the following common troubleshooting steps:

- **No Sound:**

- Check if the amplifier is powered on and functioning correctly.
- Verify all wiring connections are secure at both the amplifier and the speaker.
- Ensure the speaker's local volume control is not turned all the way down.
- Confirm the correct transformer tap is selected and properly connected.

- **Distorted Sound:**

- Reduce the amplifier's volume or the speaker's local volume. Overdriving the speaker can cause distortion.
- Check for loose wiring connections.
- Ensure the transformer tap setting is appropriate for the power output of your amplifier.

- **Low Volume:**

- Increase the speaker's local volume control.
- Increase the amplifier's master volume.
- Consider if a higher wattage transformer tap is needed for the desired volume level. (Requires power disconnection and re-wiring).

If problems persist after attempting these steps, contact a qualified audio technician or AtlasIED customer support.

8. SPECIFICATIONS

Detailed technical specifications for the AtlasIED SD72WV speaker:

Feature	Specification
Model Name	SD72WV
Mounting Type	Ceiling Mount
Speaker Type	In Ceiling
Speaker Size	8 Inches
Woofer Diameter	20.64 Centimeters
Audio Driver Type	Dynamic Driver
Audio Driver Size	8 Inches
Speaker Maximum Output Power	25 Watts
Input Voltage	25 Volts (also 70.7V compatible)
Number of Power Levels (Taps)	5 (.25W, .5W, 1W, 2W, 5W)
Impedance	8 Ohm
Audio Output Mode	Mono
Connectivity Technology	Wired
Special Feature	Volume Roller (Control)

Material	Iron (Baffle)
Color	White
Product Dimensions	2.9 x 8.2 x 8.2 inches
Item Weight	4.28 Pounds
Included Components	Speaker, Transformer, Baffle with Volume Control
Is Waterproof	FALSE
Manufacturer	AtlasIED
UPC	612079179961
Date First Available	April 6, 2009

9. WARRANTY INFORMATION

The AtlasIED SD72WV speaker comes with a **Limited Warranty**. Specific terms and conditions of this warranty, including duration and coverage details, are provided by AtlasIED. Please refer to the official AtlasIED website or contact their customer service for complete warranty information and registration procedures.

10. SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your AtlasIED SD72WV speaker, please contact AtlasIED customer support. You can find contact information and additional resources on the official AtlasIED website (www.atlasied.com).