

[manuals.plus](#) /

› [Sound Town](#) /  
› [Sound Town CARPO-LA6 Passive Line Array Speaker User Manual](#)

## Sound Town CARPO-LA6

# Sound Town CARPO-LA6 Passive Line Array Speaker User Manual

Your guide to setting up, operating, and maintaining your CARPO-LA6 Passive Line Array Speaker.

## 1. INTRODUCTION

The Sound Town CARPO-LA6 is a high-performance passive line array speaker designed for professional audio setups. It features dual 6.5-inch woofers and two 1-inch titanium compression drivers, delivering clear and powerful sound. This speaker is engineered for flexibility, supporting various configurations for diverse venues and applications. Please read this manual thoroughly before use to ensure proper setup and operation.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Always ensure proper grounding and use appropriate power cables. Disconnect power before making any connections or performing maintenance.
- **Placement:** Position speakers on stable surfaces or use approved mounting hardware. Ensure adequate ventilation to prevent overheating.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use hearing protection when operating at high volumes.
- **Important Note:** The CARPO-LA6 is a passive line array speaker. It requires an external two-channel amplifier and is designed to work with an active unit like the CARPO-LA6PW, which can power up to two passive LA6 units. Proper wiring with NL4 cables is essential. Using an external power amplifier without ensuring proper power and impedance matching is not recommended and may result in suboptimal performance or equipment damage.

### 3. PACKAGE CONTENTS

Your Sound Town CARPO-LA6 package should include:

- 1 x CARPO-LA6 Passive Line Array Speaker

**Note:** Accessories such as the CARPO-LA6FF flying frame, STSDA-MM49, or STSD-MM14 speaker stands, and the active CARPO-LA6PW unit are sold separately and may be required for certain configurations.

### 4. SETUP AND INSTALLATION

#### 4.1 Physical Assembly

The CARPO-LA6 speakers can be combined and fixed using the provided iron bars for vertical line array setups. The integrated hardware allows for adjustable splay angles from 0° to 16° when flown. For grounded configurations, speakers can be combined on compatible subwoofers using appropriate speaker stands (sold separately).



Figure 1: Front view of the CARPO-LA6 speaker.



Figure 2: Side view of the CARPO-LA6 speaker, highlighting its compact design.



Figure 3: Rear panel of the CARPO-LA6 with connection ports and angle adjustment hardware.



Figure 4: Close-up of the rear panel, illustrating the splay angle adjustment mechanism.

## 4.2 Wiring and Connections

The CARPO-LA6 requires a two-channel amplifier due to its bi-amp design. Use NL4 cables for proper connection. Connect the passive CARPO-LA6 units to an active unit like the CARPO-LA6PW (sold separately) or a suitable external amplifier. Ensure correct polarity and impedance matching.

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Video 1: General installation guide for a line array system. This video demonstrates the physical assembly of line array speakers, attaching them to a stand, and connecting them to a subwoofer. While featuring a different model (CAIXA115), the principles of assembly and connection are applicable to the CARPO-LA6 system.

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Video 2: Presentation of a PRORECK Stage 1260 system. This video illustrates various setup configurations (mono, stereo, beast mode) and highlights features like the locking system and DSP presets, which are typically found on the active unit (e.g., CARPO-LA6PW) that drives the passive CARPO-LA6 speakers.

## 5. OPERATING INSTRUCTIONS

As a passive speaker, the CARPO-LA6's operation is primarily controlled by the connected active unit (e.g., CARPO-LA6PW) or external amplifier. Refer to the manual of your active unit for detailed instructions on:

- **Power On/Off:** Always power on your active unit/amplifier first, then the CARPO-LA6. Power off the CARPO-LA6 first, then the active unit/amplifier.
- **Volume Control:** Adjust the overall system volume and individual speaker levels via the active unit or amplifier.

- **DSP Presets:** If your active unit features Digital Signal Processing (DSP), select appropriate presets (e.g., DJ, Voice, Live, Flat) to optimize sound for your specific application.
- **TWS (True Wireless Stereo) Connection:** If your active unit supports TWS, follow its instructions to wirelessly link two active units for a stereo setup.

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Video 3: EXOTON Line Array Column PA Speaker features. This video demonstrates DSP preset functions and TWS connection capabilities, which are common features on active PA systems designed to drive passive line array speakers like the CARPO-LA6.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the speaker cabinet. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the speaker in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, cover the speaker to protect it from dust.
- **Inspection:** Periodically check all cables and connections for wear or damage. Ensure all mounting hardware is secure.

## 7. TROUBLESHOOTING

If you encounter issues with your CARPO-LA6 speaker, consider the following:

- **No Sound:**
  - Ensure the active unit/amplifier is powered on and connected correctly.
  - Check all NL4 cables for secure connections and damage.
  - Verify that the volume levels on the active unit/amplifier are not set to minimum.
- **Distorted Sound:**
  - Reduce the input gain or volume on the active unit/amplifier to prevent clipping.
  - Check for damaged cables or faulty connections.
  - Ensure the impedance of the CARPO-LA6 matches the output impedance of your amplifier.
- **Connector Issues:** A customer review noted that some XLR connectors might not lock securely with the speaker's connector. Ensure the connector is fully inserted and, if possible, use high-quality NL4 cables that provide a firm lock. If issues persist, contact customer support.

For more detailed troubleshooting, refer to the user manual of your active amplifier or contact Sound Town customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model	CARPO-LA6
Drivers	Dual 6.5" Woofers, Two 1" Titanium Compression Drivers
Impedance	16Ω
Power Rating (RMS)	240W
Power Rating (Program)	480W
Splay Angles	0° to 16° (adjustable)
Product Dimensions (L x W x H)	13.78 x 17.72 x 7.48 inches
Item Weight	19.8 lbs (22 lbs shipping weight)
Material	Rugged construction, textured paint finish, perforated grille
Connectivity Technology	Speakon
Mounting Type	Flying/Stacking

## 9. WARRANTY AND SUPPORT

Sound Town products are designed for durability and performance. For warranty information and customer support, please visit the official Sound Town website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for any warranty claims.