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› Pure Resonance Audio P115 15-inch 2-Way 350W Passive Loudspeaker User Manual

## Pure Resonance Audio PRA-P115

# Pure Resonance Audio P115 15-inch 2-Way 350W Passive Loudspeaker User Manual

Model: PRA-P115

## INTRODUCTION

The Pure Resonance Audio P115 is a versatile 15-inch 2-way passive loudspeaker designed for professional audio applications. This speaker delivers robust low and mid frequencies through its 15-inch woofer with a 2.5-inch voice coil, and crisp high frequencies via a 1-inch compression driver with a 1.35-inch voice coil. It is suitable for medium to large venues such as gymnasiums, churches, schools, and auditoriums, offering excellent vocal intelligibility and wide 90° x 60° coverage. The lightweight, durable enclosure ensures long-term reliability, with integrated handles, pole mounting, rigging points, and floor monitor capability providing flexible installation options.



Figure 1: Front view of the Pure Resonance Audio P115 Passive Loudspeaker.

## FEATURES

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- **Robust Construction:** Durable, lightweight plastic enclosure designed for long-term reliability.
- **High-Quality Drivers:** Features a 15-inch LF driver with a 2.5-inch voice coil and a 1-inch HF compression driver with a 1.35-inch voice coil.
- **Power Handling:** 350W continuous power, 1200W peak power.
- **Wide Coverage:** 90° x 60° dispersion pattern for broad sound distribution.
- **Flexible Mounting Options:** Integrated handles for portability, pole mounting socket, M8 rigging points for suspension, and floor monitor capability with a 40° tilt angle.
- **Simple Connection:** Equipped with two Speakon NL4 connections for secure and reliable audio input.

## WHAT'S IN THE BOX

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- One (1) Pure Resonance Audio P115 Passive Loudspeaker Unit

*Note: As a passive loudspeaker, the P115 requires an external amplifier and speaker cables (Speakon NL4 compatible) which are sold separately.*

## SETUP & INSTALLATION

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The P115 loudspeaker offers multiple installation methods to suit various venue requirements. Always ensure secure mounting and proper cable management to prevent accidents and ensure optimal performance.

### 1. Pole Mounting

The P115 features a standard pole mount socket on its base, allowing it to be mounted on a speaker pole or tripod stand. This method is ideal for temporary setups or when elevating the speaker for wider audience coverage.



Figure 2: The P115 speaker, illustrating the pole mount socket on its base for stand mounting. This socket also allows for 0° to 7.5° tilt angle adjustment.

- Insert a compatible speaker pole into the socket.
- Ensure the pole is stable and capable of supporting the speaker's weight.
- Adjust the tilt angle if necessary using the integrated adjustment mechanism.

## 2. Suspension (Flying)

For permanent installations in venues like gymnasiums or auditoriums, the P115 can be suspended using its M8 rigging points. There are three M8 suspension points: two on the top and one on the rear, allowing for precise angling.



Figure 3: The P115 speaker, indicating the M8 suspension points for flying the speaker.

- Consult with a qualified professional for safe and proper suspension installation.
- Use appropriate M8 eye bolts and rigging hardware rated for the speaker's weight.
- Ensure the suspension points are securely fastened and the speaker is balanced.

### **3. Floor Monitor Capability**

The P115's cabinet design allows it to be placed on its side, functioning as a floor monitor. This is useful for stage applications where performers need to hear themselves.



Figure 4: The P115 positioned as a floor monitor, offering a 40° tilt angle for optimal sound projection towards performers.

- Place the speaker on a stable, flat surface in the desired monitor position.
- The cabinet's angled design provides a 40° tilt for effective sound projection.

#### **4. Connections**

Connect the P115 to a suitable external amplifier using Speakon NL4 cables. The speaker features two Speakon NL4 connections for input and daisy-chaining to another passive speaker.



Figure 5: Rear panel of the P115, highlighting the two Speakon NL4 connections for audio input and output.

- Ensure the amplifier's power output matches the speaker's power handling capabilities (350W continuous, 1200W peak) and impedance (8Ω).
- Use high-quality Speakon NL4 cables for reliable connection.
- Connect one end of the Speakon cable to the amplifier's output and the other end to one of the P115's Speakon inputs.
- For daisy-chaining, connect a second Speakon cable from the P115's other Speakon output to another passive speaker.

## OPERATING INSTRUCTIONS

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Once the P115 loudspeaker is properly installed and connected to an amplifier, follow these general operating guidelines:

1. **Power On Sequence:** Always power on your audio mixer and other source equipment first, then your amplifier.
2. **Volume Levels:** Start with the amplifier's volume control at its lowest setting. Gradually increase the volume to the desired listening level.
3. **Monitoring Sound:** Listen for any distortion or clipping. If you hear distortion, reduce the volume immediately to prevent damage to the speaker or amplifier.
4. **Power Off Sequence:** When finished, turn off the amplifier first, then your mixer and other source equipment.
5. **Optimal Placement:** Experiment with speaker placement to achieve the best sound coverage and clarity for your specific environment.

## MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your P115 loudspeaker.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the speaker. Avoid using abrasive cleaners or solvents. For the grille, a soft brush or vacuum cleaner with a brush attachment can remove dust.

- **Inspection:** Periodically inspect speaker cables for any signs of wear, cuts, or damage. Replace damaged cables immediately.
- **Connections:** Ensure all Speakon connections are secure and free from corrosion.
- **Storage:** If storing the speaker for an extended period, keep it in a dry, temperature-controlled environment, ideally in its original packaging or a protective cover.
- **Environmental Conditions:** Avoid exposing the speaker to extreme temperatures, high humidity, or direct moisture.

## TROUBLESHOOTING

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If you encounter issues with your P115 loudspeaker, refer to the following common troubleshooting steps:

- **No Sound:**

- Check all cable connections between the amplifier and speaker.
- Ensure the amplifier is powered on and functioning correctly.
- Verify the audio source is active and sending a signal.
- Confirm the amplifier's volume is turned up.

- **Distorted Sound:**

- Reduce the volume level on the amplifier and/or audio source.
- Check if the amplifier's power output is too high for the speaker.
- Inspect speaker cables for damage or improper connection.
- Ensure the impedance of the speaker matches the amplifier's output impedance.

- **Intermittent Sound:**

- Check for loose cable connections.
- Inspect cables for internal breaks or damage.
- Ensure the amplifier is not overheating.

- **Poor Bass Response:**

- Verify the speaker is correctly phased (if applicable to your amplifier setup).
- Check for proper placement; speakers placed too far from walls or corners may have reduced bass.
- Ensure the audio source is providing a full-range signal.

If the issue persists after performing these checks, contact Pure Resonance Audio customer support for further assistance.

## SPECIFICATIONS

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<b>Model Number</b>	PRA-P115
<b>Speaker Type</b>	15" 2-Way Passive Loudspeaker
<b>LF Driver</b>	15" Woofer with 2.5" Voice Coil
<b>HF Driver</b>	1" Compression Driver with 1.35" Voice Coil
<b>Continuous Power</b>	350W
<b>Peak Power</b>	1200W
<b>Impedance</b>	8Ω

<b>Frequency Response</b>	53Hz - 20kHz
<b>Sensitivity (1W/1M)</b>	97dB
<b>Max SPL</b>	128dB
<b>Dispersion</b>	90° x 60°
<b>Enclosure Material</b>	Lightweight, Durable Plastic
<b>Connections</b>	(2) Speakon NL4
<b>Mounting Options</b>	Pole Mount, (3) M8 Suspension Points, Floor Monitor (40° tilt)
<b>Integrated Handles</b>	Yes (3 handles for balance and comfort)
<b>UPC</b>	810093052547

## WARRANTY

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The Pure Resonance Audio P115 Passive Loudspeaker comes with a 5-Year Extended Warranty. For detailed terms and conditions, please refer to the warranty documentation included with your purchase or visit the Pure Resonance Audio official website.

## SUPPORT

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For technical assistance, product inquiries, or warranty claims, please contact Pure Resonance Audio customer support:

- **Website:** [www.pureresonanceaudio.com](http://www.pureresonanceaudio.com)
- **Email:** [Insert Support Email Here]
- **Phone:** [Insert Support Phone Number Here]

Please have your model number (PRA-P115) and purchase information ready when contacting support.

## PRODUCT VIDEOS

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Watch these official product videos for a visual overview and detailed features of the Pure Resonance Audio P115 Passive Loudspeaker.

### Overview of Pure Resonance Audio P115 15" Passive PA Speaker



This video provides a comprehensive overview of the Pure Resonance Audio P115 15-inch Passive PA Speaker, detailing its features, applications, and mounting options. Duration: 2:52.

### Pure Resonance Audio P115 15" Passive Loudspeaker (Preview)



A concise preview video showcasing the Pure Resonance Audio P115 15-inch Passive Loudspeaker and its key attributes. Duration: 0:59.

