Jancane AU221-DE

Jancane Phono Turntable Preamp User Manual

Model: AU221-DE

Brand: Jancane

1. Introduction

The Jancane Phono Turntable Preamp (Model AU221-DE) is designed to convert phono signals from your turntable to line-level signals, allowing you to connect your turntable to modern audio equipment that lacks a dedicated phono input. This preamplifier features low-noise operational amplifiers to ensure clear and accurate sound reproduction from your vinyl records. It includes RCA input, and both RCA and TRS outputs for versatile connectivity.



Figure 1: Jancane Phono Turntable Preamp (Model AU221-DE)

This image displays the compact Jancane Phono Turntable Preamp, showcasing its sleek design and clearly labeled input/output ports. The device is silver-colored with the Jancane logo and "Phono Turntable Preamp" text on the front. A green 'ON' LED indicator is visible.

2. Setup and Connections

Follow these steps to correctly connect your Jancane Phono Turntable Preamp to your audio system.

2.1 Component Identification

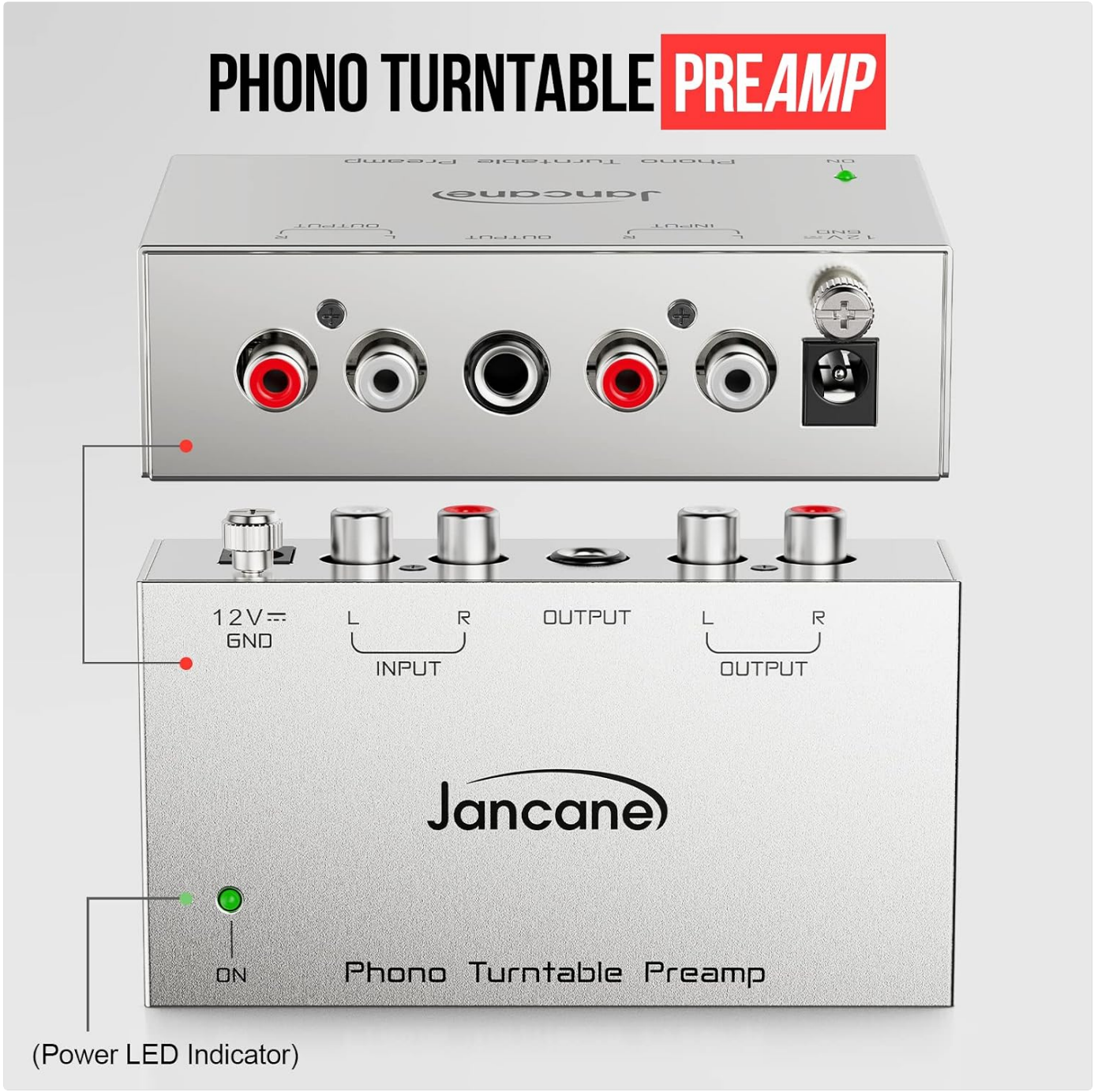


Figure 2: Preamp Front and Rear Panels with Labeled Connections

This image provides a detailed view of the preamp's front and rear panels, highlighting the 12V DC power input, ground terminal (GND), L/R RCA inputs, 1/4" TRS output, and L/R RCA outputs. The 'ON' power LED indicator is also shown.

- **12V DC Input:** Connect the included 12V DC power adapter here.
- **GND (Ground) Terminal:** Connect your turntable's ground wire here to reduce hum and noise.
- **INPUT (L/R RCA):** Connect your turntable's RCA output cables to these inputs.
- **OUTPUT (L/R RCA):** Connect these outputs to your amplifier, receiver, or powered speakers' line-level RCA inputs.
- **OUTPUT (1/4" TRS):** Alternatively, connect a 1/4" TRS cable from this output to compatible audio equipment.
- **ON LED Indicator:** Illuminates green when the preamp is powered on.

2.2 Connection Steps

1. Ensure all audio equipment is powered off before making connections.
2. Connect the RCA output cables from your turntable to the **INPUT (L/R RCA)** ports on the Jancane Phono Turntable Preamp.
3. If your turntable has a ground wire, connect it to the **GND** terminal on the preamp.

4. Connect the **OUTPUT (L/R RCA)** ports of the preamp to a line-level input (e.g., "CD," "AUX," or "LINE IN") on your amplifier, receiver, or powered speakers using RCA cables. Alternatively, use the **OUTPUT (1/4" TRS)** port if your audio equipment supports a 1/4" TRS input.
5. Connect the included 12V DC power adapter to the **12V DC Input** on the preamp and then plug the adapter into a power outlet. The 'ON' LED indicator will light up.
6. Once all connections are secure, you can power on your audio equipment and turntable.

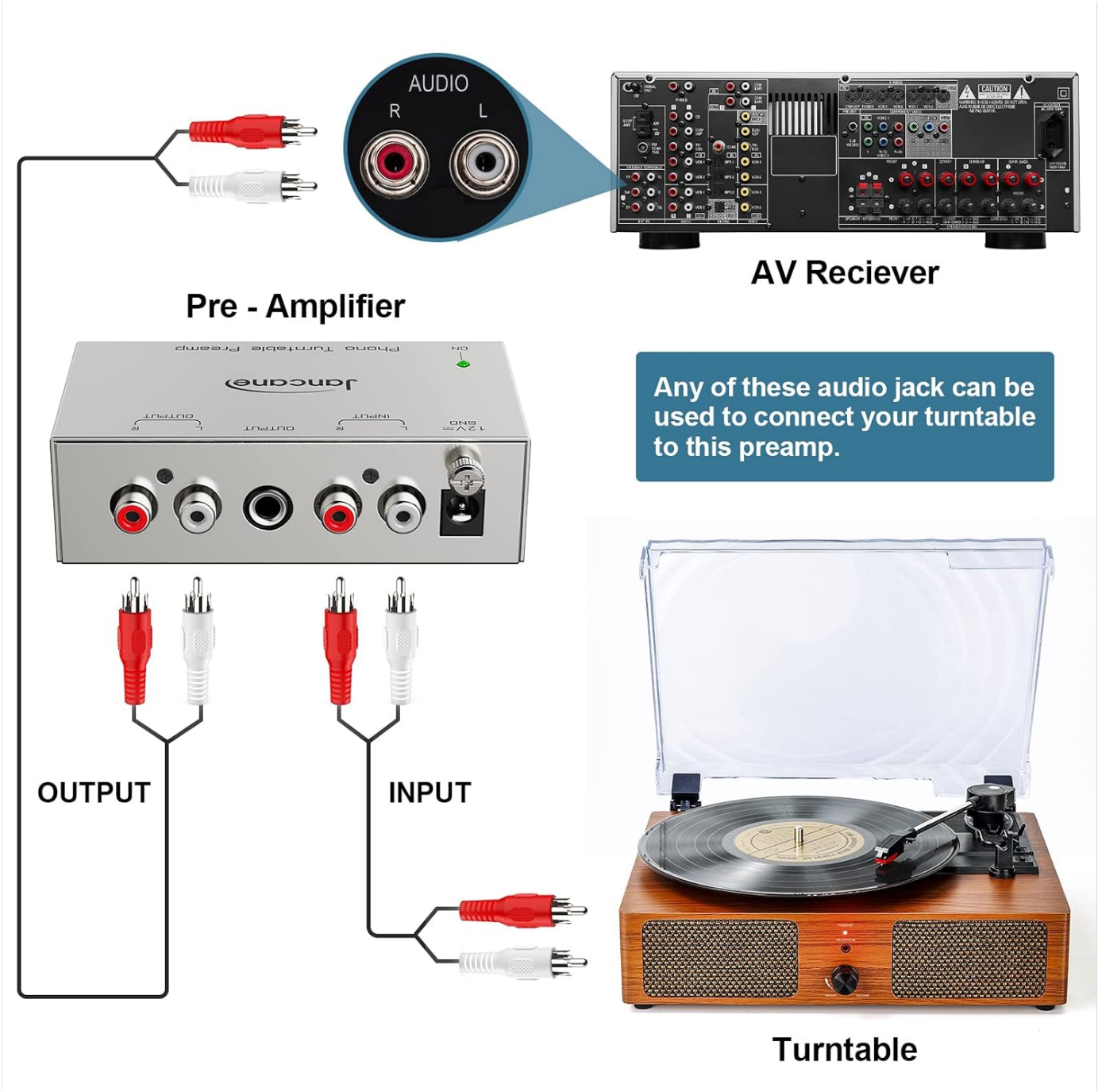


Figure 3: Typical Connection Diagram

This diagram illustrates the connection flow: a turntable connects via RCA cables to the preamp's input, and the preamp's output connects to an AV receiver's audio input. This setup allows a turntable to be used with receivers lacking a dedicated phono input.



Figure 4: Preamp with Connected Cables

This image shows the Jancane Phono Turntable Preamp with RCA input cables, RCA output cables, a 1/4" TRS output cable, and the DC 12V power adapter connected, demonstrating a complete wiring setup.



Figure 5: Power and Ground Connections

This image highlights the power input (12V DC) and the ground terminal (GND) on the preamp, showing how to connect the power adapter and the turntable's ground wire for optimal performance.

2.3 Setup Video Guide

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Video 1: Phono Preamp for Turntable Connection Guide

This video demonstrates the process of connecting the Jancane Phono Turntable Preamp to a turntable and an audio system, illustrating the various input and output options and the overall setup for playing records.

3. Operation

Once the preamp is correctly connected and powered on, it will automatically convert the phono signal from your turntable to a line-level signal suitable for your audio system.

- Ensure your amplifier/receiver is set to the correct input channel where the preamp is connected (e.g., AUX, CD, Line In).
- Adjust the volume on your amplifier/receiver to your desired listening level. The preamp does not have its own volume control.
- The Jancane Phono Turntable Preamp is designed for low-noise operation, ensuring that your vinyl records deliver sound accurately as read from the turntable's needle, minimizing unwanted interference.



Figure 6: Ultra Low Noise Operation

This graphic illustrates the benefit of the preamp's ultra-low noise operation, showing a "Before" waveform with more noise and an "After" waveform with reduced unwanted noise and interference, resulting in cleaner audio.



Figure 7: Phono Signal Conversion

This image visually explains that the preamp converts phono signals to line-level signals, enabling any turntable to connect to modern sound equipment without requiring a specialized phono input.

4. Maintenance

To ensure the longevity and optimal performance of your Jancane Phono Turntable Preamp, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using liquid cleaners, aerosols, or solvents, as these may damage the finish or internal components.
- **Ventilation:** Ensure the unit is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Power:** Always disconnect the power adapter from the wall outlet if the unit will not be used for an extended period.

- **Environment:** Keep the preamp away from excessive heat, humidity, dust, and direct sunlight.

5. Troubleshooting

If you encounter issues with your Jancane Phono Turntable Preamp, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound or very low volume	Preamp not powered on. Incorrect input selected on receiver/amplifier. Cables not connected securely. Turntable output not connected to preamp input. Preamp output not connected to line-level input on receiver/amplifier.	Check if the 'ON' LED is lit. Ensure the 12V DC adapter is properly connected and plugged into a working outlet. Select the correct input source (e.g., AUX, CD, Line In) on your receiver/amplifier. Verify all RCA and TRS cables are firmly seated in their respective ports. Ensure the turntable's RCA cables are connected to the preamp's INPUT ports. Confirm the preamp's OUTPUT ports are connected to a line-level input on your receiver/amplifier, not a phono input.
Humming or buzzing noise	Ground wire not connected or improperly connected. Interference from other electronic devices. Faulty cables.	Connect the turntable's ground wire to the GND terminal on the preamp. Ensure the connection is secure. Move the preamp and audio cables away from power cables, transformers, or other electronic devices that may cause interference. Try replacing RCA cables with higher quality, shielded cables.
Distorted sound	Overdriving the input signal. Damaged stylus or record.	Ensure the turntable's output level is not excessively high. Inspect your turntable's stylus for damage and clean your records.

6. Specifications

Technical specifications for the Jancane Phono Turntable Preamp (Model AU221-DE):

Feature	Detail
Model	AU221-DE
Item Dimensions (L x W x H)	1 x 3.5 x 2.1 inches (25.4 x 88.9 x 53.34 mm)
Voltage	12 Volts (DC)
Number of Channels	2 (Stereo)
Input	Stereo RCA
Output	Stereo RCA, 1/4" TRS
Material Type	Plastic

Feature	Detail
Specification Met	FCC

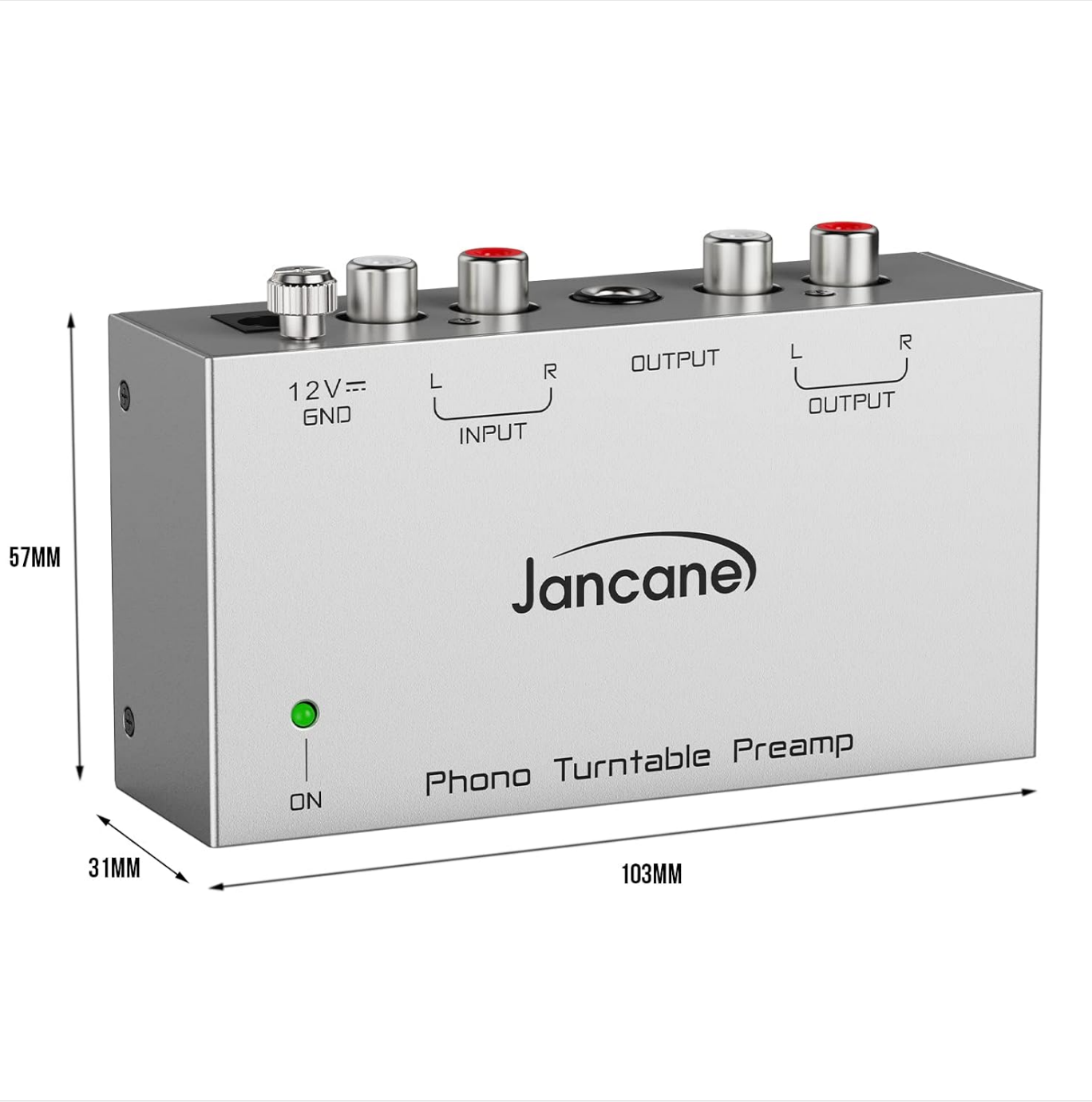


Figure 8: Preamp Dimensions

This image provides the physical dimensions of the Jancane Phono Turntable Preamp, showing its length (103mm), width (31mm), and height (57mm).

7. Warranty and Support

Jancane provides a **1-year manufacturer's guarantee** for this Electric Phono Preamplifier. Additionally, a 30-day, no-hassle money-back return policy is offered.

For technical support, warranty claims, or further assistance, please contact Jancane customer service through the retailer where the product was purchased or visit the official Jancane website for contact information.

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