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Nobsound P2

Nobsound P2 6K4 Mini Bluetooth Vacuum Tube Preamplifier User Manual

Model: P2

1. Introduction

The Nobsound P2 is a versatile mini HiFi vacuum tube preamplifier designed to enhance your audio experience. It features multiple input options, including Bluetooth, RCA, USB, and TF card, and can also function as a dedicated headphone amplifier. This manual provides comprehensive instructions for setting up, operating, and maintaining your P2 preamplifier.



Image 1.1: Nobsound P2 Preamplifier front view.

2. Important Safety Information

- The P2 is a preamplifier and requires an external power amplifier or active (powered) speakers to function. It cannot directly drive passive speakers or be used directly with a record player without an additional phono preamplifier.
- The USB interface supports flash memory and USB 2.0 thumb drives only. PC-USB connection is not supported.
- RCA and 3.5mm headphone jacks can output audio simultaneously.
- If Bluetooth connection is unstable, ensure the antenna is securely attached and there are no interference sources (e.g., Wi-Fi routers) near the device.
- **Vacuum tube components are highly sensitive to electromagnetic interference.**To prevent noise:
  - Avoid placing the unit near high-frequency emitting devices like Wi-Fi routers.
  - Do not route vacuum tube cables or audio cables parallel to household power lines. Doing so can cause current noise or other interference.

3. Package Contents

Please check that all items are present in the package:

- Nobsound P2 Preamplifier Unit
- 6K4 Vacuum Tubes (x2)
- Power Adapter (DC 12V)
- Bluetooth Antenna
- Remote Control (AAA batteries not included)
- User Manual



Image 3.1: Contents of the Nobsound P2 package, including the preamplifier, vacuum tubes, power adapter, Bluetooth antenna, and remote control.

4. Product Overview

4.1 Front Panel Controls and Inputs



Image 4.1: Front panel of the Nobsound P2, showing the TF card slot, USB input, IR receiver, headphone output, and tone control knobs.

- **TF Card Input:** For playing audio files from a TF (MicroSD) card.
- **USB Input:** For playing audio files from a USB flash drive.
- **IR (Infrared) Receiver:** For remote control commands.
- **Headphone Output (3.5mm):** Connect headphones for private listening.
- **BASS Knob:** Adjusts low-frequency audio levels.
- **MID Knob:** Adjusts mid-range frequency audio levels.
- **TREBLE Knob:** Adjusts high-frequency audio levels.

4.2 Top Panel Controls and Indicators



Image 4.2: Top panel of the Nobsound P2, displaying input indicators (RCA, BT, USB, TF) and control buttons.

- **Input Indicators (RCA, BT, USB, TF):** LEDs illuminate to show the currently selected input source.
- **SEL Button:** Short press to power ON/OFF or select input source.
- **Previous Track / Volume Down Button:** Short press for previous track (USB/TF mode), long press to decrease volume.
- **Play/Pause / LED Button:** Short press to play/pause (USB/TF mode), long press to turn vacuum tube LEDs ON/OFF.

- **Next Track / Volume Up Button:** Short press for next track (USB/TF mode), long press to increase volume.

4.3 Rear Panel Connections

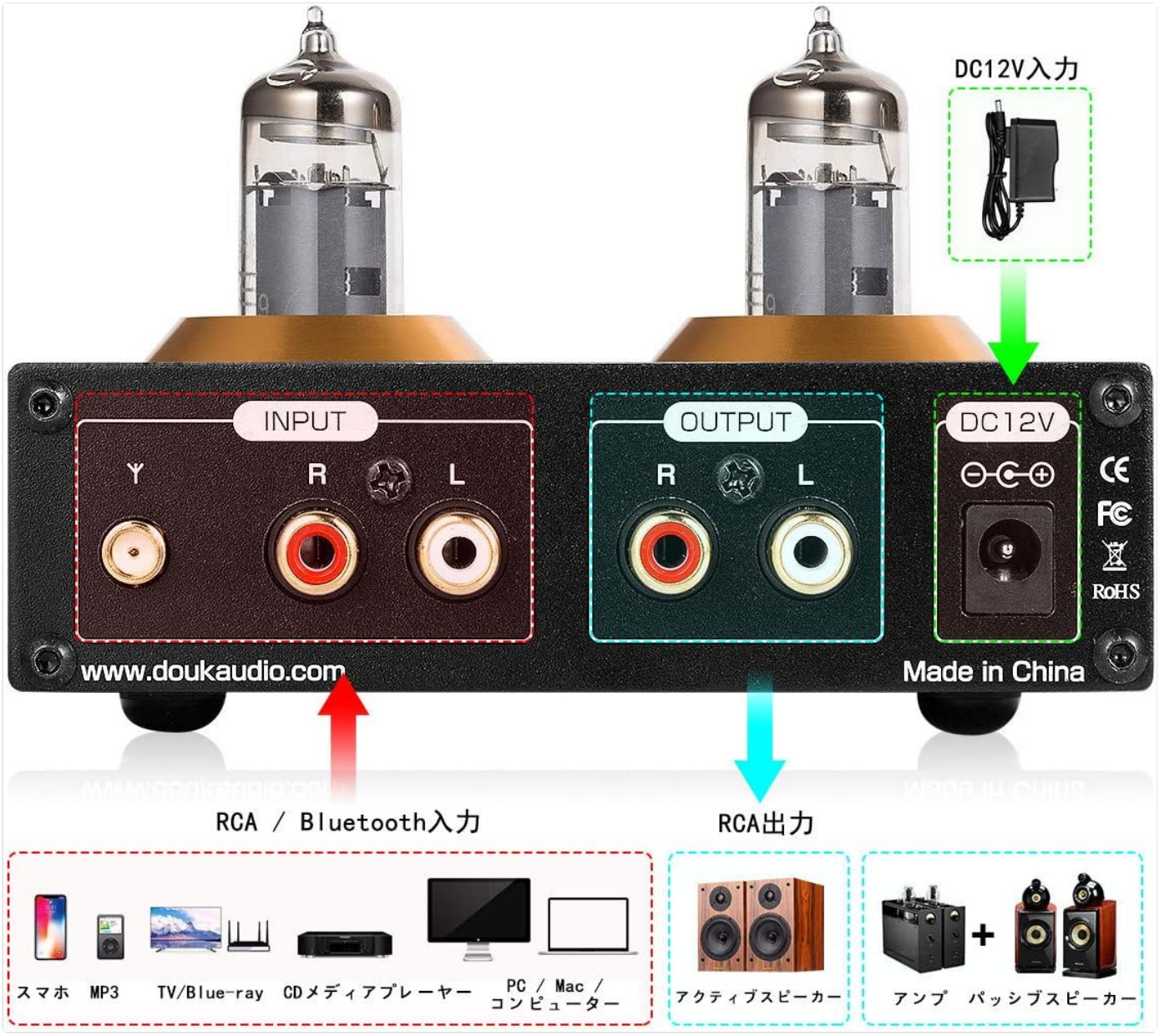


Image 4.3: Rear panel of the Nobsound P2, showing the Bluetooth antenna connector, RCA input, RCA output, and DC 12V power input.

- **Bluetooth Antenna Connector:** Attach the provided Bluetooth antenna here.
- **RCA Input (L/R):** Connect audio sources via RCA cables.
- **RCA Output (L/R):** Connect to a power amplifier or active speakers.
- **DC 12V Input:** Connect the provided 12V power adapter.

5. Setup

Follow these steps to set up your Nobsound P2 preamplifier:

1. **Install Vacuum Tubes:** Carefully insert the two 6K4 vacuum tubes into their sockets on the top panel. Ensure they are seated firmly.
2. **Attach Bluetooth Antenna:** Screw the Bluetooth antenna onto the connector on the rear panel.
3. **Connect Audio Sources:**

- For RCA input: Connect your audio source (e.g., CD player, TV, PC) to the RCA Input jacks on the rear panel using RCA cables.
- For USB/TF card input: Insert a USB flash drive or TF card containing audio files into the respective slots on the front panel.

4. **Connect to Amplifier/Speakers:** Connect the RCA Output jacks on the rear panel to your power amplifier or active speakers using RCA cables.
5. **Connect Power:** Connect the provided DC 12V power adapter to the DC 12V input on the rear panel, then plug the adapter into a power outlet.

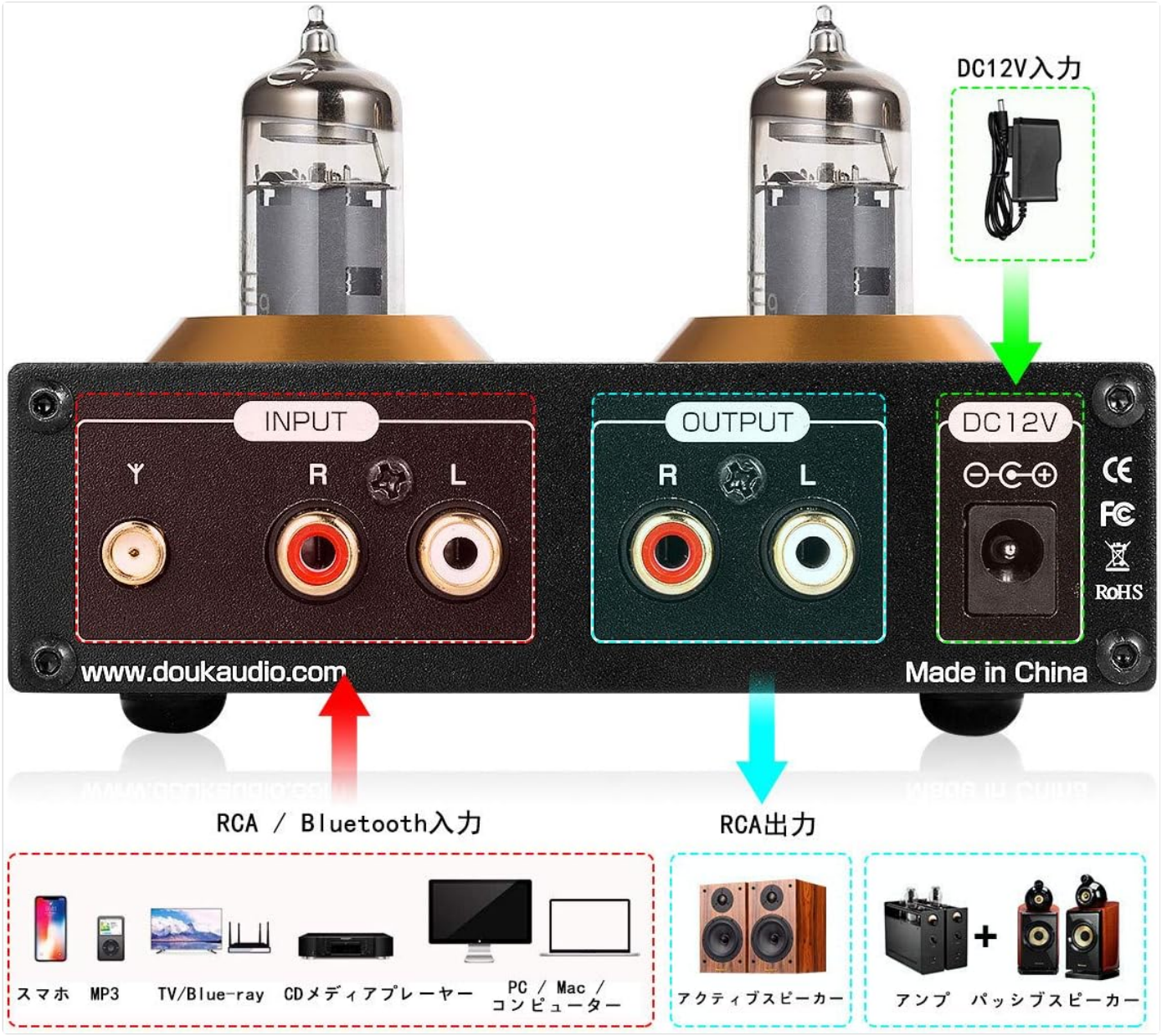


Image 5.1: Diagram illustrating the rear panel connections for audio input, output, and power.



Image 5.2: The Nobsound P2 preamplifier integrated into an audio system with speakers and a television.

6. Operating Instructions

6.1 Power On/Off and Input Selection

- **Power On:** Short press the **SEL** button on the top panel or the power button on the remote control.
- **Power Off:** Short press the **SEL** button on the top panel or the power button on the remote control.
- **Select Input:** After powering on, short press the **SEL** button repeatedly to cycle through RCA, Bluetooth (BT), USB, and TF card inputs. The corresponding LED indicator on the top panel will light up.

6.2 Volume Control

- **Increase Volume:** Long press the **Next Track** / **Volume Up** button on the top panel or use the Volume + button on the remote control.
- **Decrease Volume:** Long press the **Previous Track** / **Volume Down** button on the top panel or use the Volume - button on the remote control.

6.3 Tone Control

Use the **BASS**, **MID**, and **TREBLE** knobs on the front panel to adjust the respective frequency ranges to your preference. Turning the knob clockwise increases the level, and counter-clockwise decreases it.



Image 6.1: Detail of the Bass, Mid, and Treble control knobs on the front panel.

6.4 Bluetooth Operation

1. Select Bluetooth (BT) input using the **SEL** button. The BT indicator will light up.
2. On your mobile device, search for Bluetooth devices and select "Nobsound P2" to pair.
3. Once paired, audio from your device will play through the P2.

6.5 USB/TF Card Playback

The P2 supports lossless audio formats such as MP3, APE, FLAC, WAV, and WMA.

1. Insert a USB flash drive or TF card into the corresponding slot.
2. Select USB or TF input using the **SEL** button. The unit will automatically begin playing audio files.
3. Use the **Previous Track**, **Play/Pause**, and **Next Track** buttons on the top panel or remote control to manage playback.

Image 6.2: The Nobsound P2 functioning as a digital player, supporting various lossless audio formats via USB and TF card inputs.

6.6 Headphone Amplifier Function

Connect your headphones to the 3.5mm headphone jack on the front panel. The P2 can output audio to both the RCA output and the headphone jack simultaneously.

Image 6.3: The Nobsound P2 being used as a headphone amplifier, providing a personal listening experience.

7. Maintenance

- Keep the device clean by wiping it with a soft, dry cloth. Do not use liquid cleaners.
- Ensure proper ventilation around the unit, especially around the vacuum tubes, to prevent overheating.
- Avoid exposing the unit to direct sunlight, high temperatures, humidity, or dust.
- When replacing vacuum tubes, ensure the unit is powered off and unplugged. Allow tubes to cool before handling.

8. Troubleshooting

If you encounter issues with your Nobsound P2, please refer to the following troubleshooting guide:

- **No Power:**
  - Ensure the power adapter is securely connected to both the unit and the power outlet.
  - Confirm that the power button on the remote or the **SEL** button on the top panel has been pressed (short press) to

turn on the unit. Many users overlook this specific power-on method.

- **No Bluetooth Audio Output:**
  - **Important Note:** This unit is a preamplifier and does not have a built-in power amplifier. It must be connected to a power amplifier or active speakers.
  - Check the volume settings on both your smartphone/source device and the P2 (initial volume is often 30%, requiring adjustment).
  - Verify the input selector is set to Bluetooth (BT).
  - Ensure the Bluetooth antenna is securely attached.
  - Move the device away from potential interference sources.
- **Noise Generation:**
  - Vacuum tube components are highly sensitive to electromagnetic interference. Avoid placing the unit near high-frequency devices like Wi-Fi routers.
  - Do not route vacuum tube cables or audio cables parallel to household power lines. This is a common cause of current noise.
- **USB/TF Card Input Not Switching:**
  - Ensure the USB drive or TF card is properly inserted.
  - Verify that the files on the USB drive or TF card are supported formats (MP3, APE, FLAC, WAV, WMA).
  - Try re-inserting the USB drive or TF card.
  - If the issue persists, try a different USB drive or TF card.

9. Specifications

Feature	Specification
Brand	Nobsound
Model	P2
Vacuum Tube Model	6K4
Dimensions (LxWxH)	11.5 x 12.8 x 3.3 cm
Weight	420 g (unit only), 710 g (with packaging)
Frequency Response	±3dB (20Hz-20KHz)
Tone Control Range	±6dB (Bass/Mid/Treble)
Input Sensitivity	0.775V
THD (Total Harmonic Distortion)	0.05%
SNR (Signal-to-Noise Ratio)	≥98dB
Headphone Output Power	100mW/32Ω
Matched Headphone Impedance	16-64Ω
Channel Count	2

Feature	Specification
Power Supply	DC 12V
Battery Usage	No (for main unit)

10. Warranty and Support

The Nobsound P2 preamplifier comes with a manufacturer's warranty of 6 months from the date of purchase. Please retain your proof of purchase for warranty claims.
For technical support or warranty inquiries, please contact Nobsound customer service through the retailer where you purchased the product or visit the official Nobsound website.

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