

## VR-robot VR-NK321

# VR-robot Bluetooth 5.0 Audio Transmitter Receiver Adapter (Model: VR-NK321) User Manual

## 1. INTRODUCTION

This manual provides instructions for the VR-robot Bluetooth 5.0 Audio Transmitter Receiver Adapter, Model VR-NK321. This versatile 2-in-1 device allows you to wirelessly transmit audio from non-Bluetooth devices to Bluetooth headphones or speakers, or receive audio wirelessly from Bluetooth-enabled devices to wired audio systems. It features Bluetooth 5.0 technology for stable connections and supports aptX Low Latency for synchronized audio.



This image displays the VR-robot Bluetooth 5.0 Audio Transmitter Receiver Adapter, a compact black device, alongside its accompanying 3.5mm audio cable and RCA adapter cable.

## 2. SAFETY INFORMATION

To ensure safe operation and prolong the lifespan of your device, please observe the following precautions:

- Handle the device with care to avoid exposure to high temperatures, excessive humidity, or direct sunlight.
- Do not attempt to disassemble or modify the device. Unauthorized modifications can void the warranty and pose safety risks.
- Avoid dropping the device or subjecting it to strong impacts.
- The device contains a lithium-polymer battery. Please follow local regulations for proper disposal of batteries.

### 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x VR-robot Bluetooth 5.0 Audio Transmitter/Receiver Adapter
- 1x Micro USB Power Cable
- 1x RCA Cable
- 1x 3.5mm Aux Cable
- 1x User Manual

## Package Content

1x Bluetooth 5.0 Audio Transmitter/Receiver Adapter

1x Micro USB Power Cable

1x RCA Cable

1x 3.5mm Aux Cable

1x User Manual



This image displays the complete package contents: one Bluetooth 5.0 Audio Transmitter/Receiver Adapter, one Micro USB Power Cable, one RCA Cable, one 3.5mm Aux Cable, and the User Manual.

## 4. PRODUCT OVERVIEW

Familiarize yourself with the adapter's components:

### ⚡ Bluetooth 5.0

### 2 IN 1 Audio Transmitter Receiver Adapter



A detailed view of the VR-robot Bluetooth adapter, highlighting its key components: the Power Switch, Indicator Light, Exchange Mode Button (RX/TX), Charging Socket, and Audio Socket.

- **Power Switch:** Turns the device on or off.
- **Indicator Light:** Displays the device's status (e.g., pairing, connected, charging).
- **Exchange Mode Button (RX/TX):** Slides to switch between Receiver (RX) and Transmitter (TX) modes.
- **Charging Socket:** Micro USB port for charging the internal battery.
- **Audio Socket:** 3.5mm audio input/output port for connecting to audio devices.

## 5. SETUP AND CHARGING

### 5.1. Initial Charging

Before first use, fully charge the adapter. Connect the Micro USB Power Cable to the adapter's charging socket and the other end to a USB power source (e.g., computer USB port, USB wall adapter). The indicator light will show charging status and turn off or change color when fully charged. The built-in 200mAh lithium battery ensures portable use without constant power connection.

## 5.2. Driver Installation

No driver installation is required for this device. It operates on a plug-and-play basis.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Switching Between Transmitter (TX) and Receiver (RX) Modes

The adapter features a physical switch to change between modes. Slide the switch to the desired mode (TX for Transmitter, RX for Receiver) before connecting or pairing.

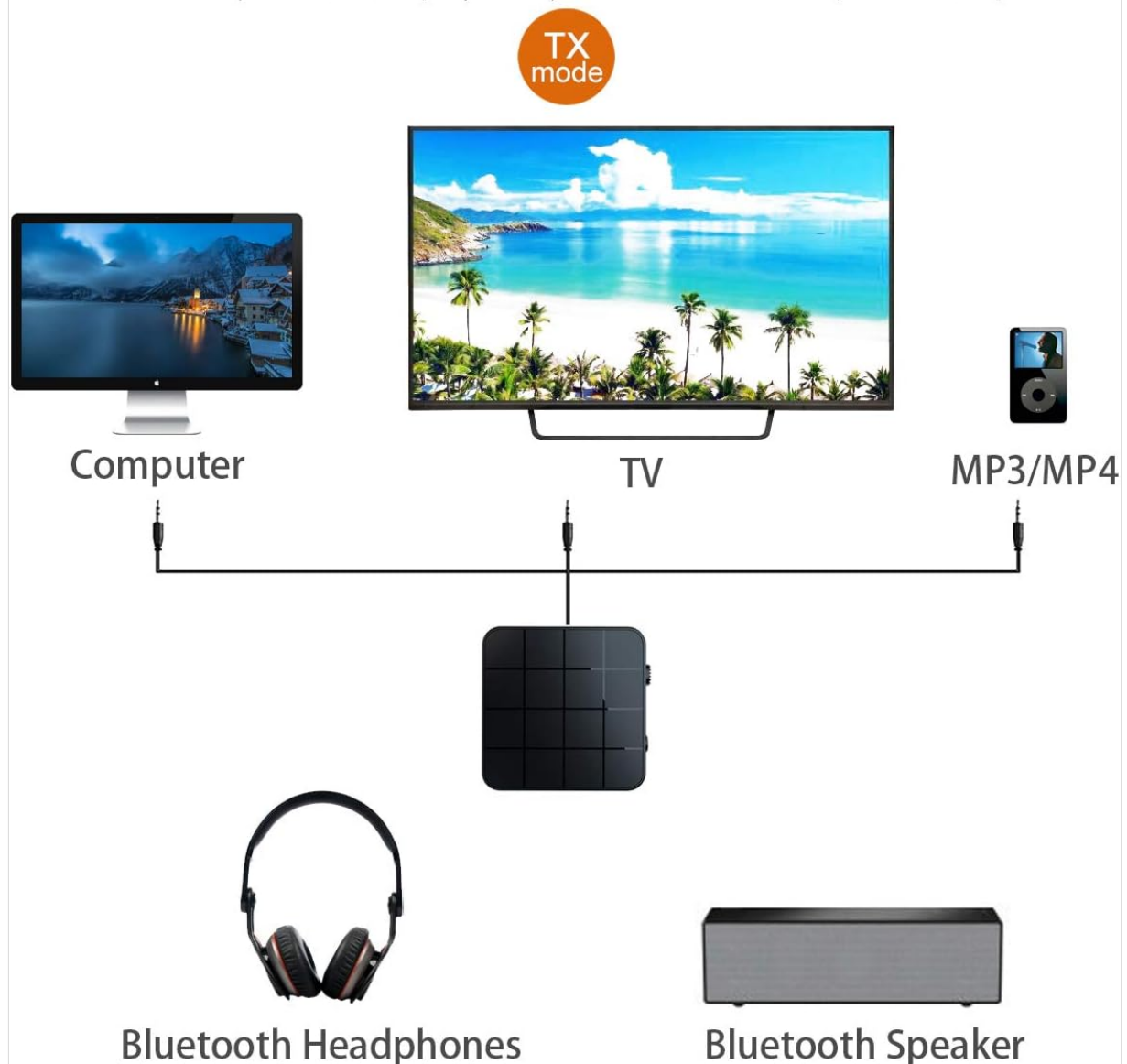
### 6.2. Transmitter Mode (TX)

In TX mode, the adapter transmits audio from a non-Bluetooth device to Bluetooth headphones or speakers.

1. Ensure the adapter is switched to **TX mode**.
2. Connect the adapter's 3.5mm audio socket to the audio output port of your non-Bluetooth device (e.g., TV, home stereo system, CD player, PC) using the provided 3.5mm audio cable or 3.5mm to 2RCA cable.
3. Turn on the adapter. The indicator light will flash, indicating it is searching for Bluetooth devices.
4. Put your Bluetooth headphones or speakers into pairing mode.
5. The adapter will automatically search for and connect to nearby Bluetooth audio devices. Once connected, the indicator light will change to a steady blue.

# Transmitter Mode

wirelessly streams audio from your non-Bluetooth TV, home stereo system, or CD player to your Bluetooth headphones or speakers



This diagram shows the adapter in Transmitter (TX) mode, connecting a non-Bluetooth audio source like a TV, computer, or MP3 player to Bluetooth headphones or a Bluetooth speaker.

**Note:** The adapter supports pairing with one Bluetooth receiver (headphones or speaker) at a time in TX mode.

## 6.3. Receiver Mode (RX)

In RX mode, the adapter receives audio wirelessly from a Bluetooth-enabled device and outputs it to a wired audio system (e.g., wired speakers, headphones, car stereo).

1. Ensure the adapter is switched to **RX mode**.
2. Connect the adapter's 3.5mm audio socket to the audio input port of your wired stereo, speakers, or headphones using the provided 3.5mm audio cable or 3.5mm to 2RCA cable.
3. Turn on the adapter. The indicator light will flash, indicating it is in pairing mode.
4. On your Bluetooth-enabled device (e.g., phone, tablet, computer), enable Bluetooth and search for new devices. Select "VR-NK321" (or similar name) from the list of available devices to pair.
5. Once connected, the indicator light will change to a steady blue. You can now stream audio from your Bluetooth device to your wired audio system.

# Receiver Mode

wirelessly streams audio from your Bluetooth-enabled phone, tablet, or computer to your wired stereo, speakers, or headphones



This diagram illustrates the adapter in Receiver (RX) mode, enabling a wired stereo system, speakers, or headphones to receive audio wirelessly from a Bluetooth-enabled phone, tablet, or computer.

## 7. TROUBLESHOOTING

If you encounter issues with your VR-robot Bluetooth adapter, refer to the following common solutions:

- **Device not turning on:** Ensure the device is fully charged. Connect it to a power source using the Micro USB cable.
- **Cannot pair with a Bluetooth device:**
  - Ensure the adapter is in the correct mode (TX or RX) for your intended use.
  - Make sure the adapter and the target Bluetooth device are within close proximity (within 33 feet or 10 meters).
  - Put both devices into pairing mode.



- Turn off other Bluetooth devices nearby to prevent interference or unintended connections.
- Restart both the adapter and the Bluetooth device you are trying to pair with.
- **No audio or poor audio quality:**
  - Check all cable connections to ensure they are secure and correctly inserted into the audio input/output ports.
  - Verify that the volume levels on both the adapter and the connected audio devices are appropriately set.
  - Ensure the adapter is fully charged. Low battery can affect performance.
  - Reduce the distance between the adapter and the connected Bluetooth device, and remove any obstacles that might cause interference.
- **Short working range:** Bluetooth range can be affected by physical obstructions (walls, furniture) and electromagnetic interference. Try to use the device in an open area with a clear line of sight between the adapter and the connected Bluetooth device.

## 8. SPECIFICATIONS

Technical details for the VR-robot Bluetooth 5.0 Audio Transmitter Receiver Adapter:

Feature	Detail
Product Dimensions	1.73 x 1.73 x 0.47 inches
Item Weight	3.2 ounces
Model Number	VR-NK321
Batteries	1 Lithium Ion battery (included)
Connectivity Technology	Bluetooth, USB
Power Source	Battery Powered
Material	Plastic
Bluetooth Version	5.0
Working Range	Up to 33 feet (10 meters)

# Audio-Streaming Power Super-Portable

KN321(N.W. 0.63oz) has got powerful wireless audio streaming capabilities  
Slip this device into your backpack or laptop bag and take it on-the-go



This image illustrates the compact size of the adapter, measuring approximately 1.73 x 1.73 x 0.47 inches, emphasizing its portability and small footprint.





This image demonstrates the effective working range of the Bluetooth 5.0 adapter, which is up to 33 feet (10 meters), showing it connecting a TV to a wireless speaker in a typical home environment.

## 9. MAINTENANCE

To maintain your VR-robot Bluetooth adapter in optimal condition:

- Clean the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- When not in use for extended periods, ensure the device is fully charged before storage and recharge it periodically to preserve battery health.

## 10. WARRANTY AND SUPPORT

VR-robot provides a 60-day return policy and a 12-month replacement guarantee for this product. Lifetime technical support is also available. If you have any questions or require assistance, please contact VR-robot customer service. Messages are typically responded to within 12 hours.

