

[Manuals.plus](#) /

› [Roinvou](#) /

› Roinvou 6.86-inch Single Din Touchscreen Radio User Manual

Roinvou Roinvou-A3547A3US31-C251

Roinvou 6.86-inch Single Din Touchscreen Radio User Manual

Model: Roinvou-A3547A3US31-C251

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your Roinvou 6.86-inch Single Din Touchscreen Radio. This device integrates advanced features such as wireless Apple CarPlay, Android Auto, Bluetooth connectivity, FM/RDS radio, and support for a backup camera, designed to enhance your in-car entertainment and navigation experience.

Key Features:

- 6.86-inch HD Touchscreen (1280 x 480 resolution)
- Wireless Apple CarPlay & Android Auto compatibility
- Bluetooth for hands-free calls and audio streaming
- FM/RDS Radio tuner
- Mirror Link function for Android and iOS devices
- USB and Type-C ports for media playback and fast charging
- Support for Steering Wheel Control
- Rearview Camera input with automatic display
- Multiple EQ sound options



Figure 1.1: Roinvou Single Din Touchscreen Radio and included components (radio unit, backup camera, steering wheel controller, smartphone displaying CarPlay/Android Auto).

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and safety of your device. It is recommended to have the unit installed by a professional if you are unfamiliar with car audio wiring.

2.1 Package Contents

Before installation, verify that all components are present in the package:

- Single Din Car Stereo Unit
- Power Cable
- External Microphone
- Radio Antenna
- Backup Camera
- Steering Wheel Controller
- User Manual



Figure 2.1: Packing List and Unit Dimensions. This image illustrates the physical size of the head unit and lists the accessories included in the box.

2.2 Wiring Diagram

Follow the wiring diagram carefully to ensure correct connections. Incorrect wiring can damage the unit or your vehicle's electrical system.



Figure 2.2: Wiring Harness Details. This diagram shows the color-coded wires for speaker outputs, power (constant 12V, ignition, ground), antenna, steering wheel control, and reverse input for the backup camera.

2.3 Backup Camera Connection

The backup camera connects to the dedicated 'Reverse Video Input' on the rear of the unit. Ensure the camera's power is connected to the vehicle's reverse light circuit for automatic activation when shifting into reverse.

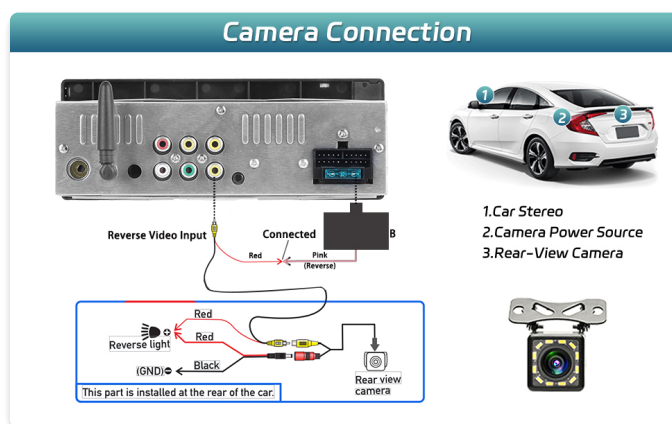


Figure 2.3: HD Rear View Camera Connection. This image details how the backup camera connects to the head unit and receives power from the vehicle's reverse light for automatic display.

3. OPERATING INSTRUCTIONS

3.1 Basic Operations

- **Power On/Off:** Press the power button on the front panel or the steering wheel control to turn the unit on or off.
- **Volume Control:** Rotate the knob on the front panel or use the steering wheel controls to adjust the volume.



Figure 3.1: USB/Type-C Ports. These ports support media playback and high-current Type-C output for fast charging mobile phones.

3.2 Wireless CarPlay & Android Auto

Connect your iPhone or Android smartphone wirelessly via Bluetooth to access CarPlay or Android Auto features directly

on the radio's touchscreen.

1. Ensure Bluetooth is enabled on your smartphone.
2. On the radio, navigate to the Bluetooth settings and pair with your phone.
3. Once paired, the system will prompt you to activate CarPlay or Android Auto.
4. Enjoy voice-assisted control, navigation, music, calls, and messages.



Figure 3.2: Apple CarPlay/Android Auto Interface. This image displays the user interface when CarPlay or Android Auto is active, showing common applications like YouTube, Spotify, and Waze.

3.3 Mirror Link Function

The Mirror Link feature allows you to synchronize your smartphone's screen with the radio's display. This is particularly useful for displaying navigation apps or other content not directly supported by CarPlay/Android Auto.

1. Connect your smartphone to the radio's USB port using an original USB cable.
2. Select the 'Mirror Link' option on the radio's interface.
3. Follow any on-screen prompts on both the radio and your phone to establish the connection.



Figure 3.3: Android/iOS Mirror Link. This image illustrates the screen mirroring capability, allowing your phone's display, including navigation, to be shown on the radio's screen.

3.4 Bluetooth Connectivity

The built-in Bluetooth module supports hands-free calling and wireless audio streaming.

- **Pairing:** Enable Bluetooth on your phone and search for the radio (usually named 'Roinvou' or similar). Select it to pair.
- **Hands-Free Calls:** Once paired, you can make and receive calls directly through the radio's interface and external microphone.
- **Audio Streaming:** Play music from your phone through the car's speakers.

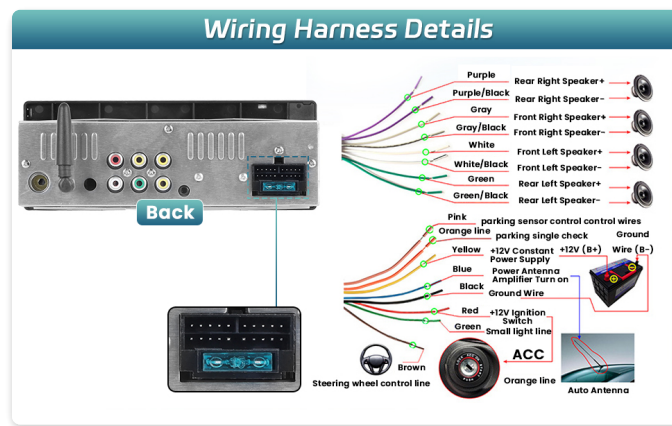


Figure 3.4: Hands-Free Bluetooth. This image shows the Bluetooth interface for dialing and managing calls, along with icons representing music streaming and phonebook synchronization.

3.5 FM/RDS Radio

Access local radio stations and receive real-time broadcast information with the FM/RDS tuner.

- **Tuning:** Use the touchscreen controls to scan for available stations or manually tune to a specific frequency.
- **Saving Presets:** Long-press a station number to save the current frequency as a preset.
- **RDS Function:** The Radio Data System (RDS) displays station information, song titles, and traffic updates where available.

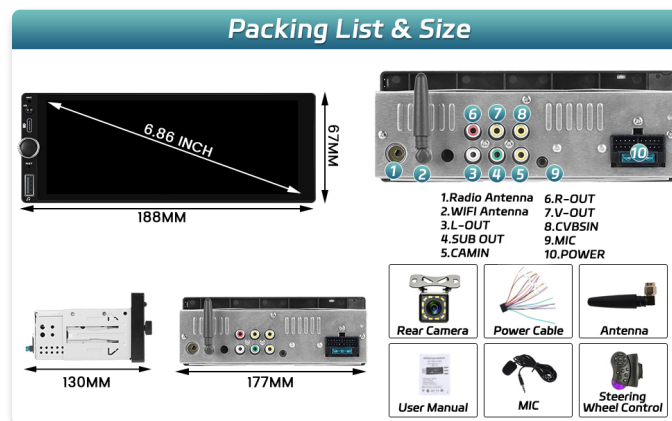


Figure 3.5: FM/RDS Radio Interface. This image shows the radio tuning screen with various frequency options and preset buttons for quick access to your favorite stations.

3.6 Steering Wheel Control

If your vehicle supports steering wheel controls, you can configure them to operate the radio for convenience and safety.

1. Access the 'Steering Wheel Control' settings in the radio's menu.
2. Follow the on-screen instructions to map your vehicle's steering wheel buttons to specific functions (e.g., volume up/down, track skip, mode change).



Figure 3.6: Steering Wheel Control Setup. This image displays the interface for programming steering wheel buttons to control various radio functions, such as switching songs, adjusting volume, and changing radio channels.

3.7 EQ Settings

Customize your audio experience using the built-in Equalizer (EQ) settings.

- Navigate to the 'Sound Settings' or 'EQ' menu.
- Choose from various preset EQ modes (e.g., Pop, Rock, Jazz) or manually adjust frequency bands to suit your preference.



Figure 3.7: EQ Settings. This image shows the graphical equalizer interface, allowing users to fine-tune audio output for a personalized listening experience.

3.8 Subwoofer Output

The unit includes a dedicated output for connecting an external subwoofer, enhancing bass response.

- Locate the green RCA connector on the back of the unit.
- Connect your subwoofer amplifier to this output.
- Adjust subwoofer levels and crossover frequencies through the radio's audio settings.



Figure 3.8: Subwoofer Output. This image highlights the dedicated green connector on the rear of the unit, specifically designed for subwoofer connection.

4. MAINTENANCE

Regular maintenance helps prolong the life and performance of your Roinvou radio.

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid abrasive materials or harsh chemicals.
- **General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean around buttons and ports.
- **Temperature:** Avoid exposing the unit to extreme temperatures, which can affect its electronic components.

5. TROUBLESHOOTING

If you encounter issues with your Roinvou radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / Unit Does Not Turn On	Incorrect wiring (power, ground, ignition) Blown fuse Vehicle battery issue	Check all power connections according to the wiring diagram. Ensure the fuse is intact. Verify vehicle battery voltage.
No Sound Output	Speaker wires incorrectly connected or shorted Volume too low or muted Incorrect audio source selected Amplifier issue (if external)	Verify speaker wiring. Increase volume and check mute status. Ensure the correct audio source (e.g., FM, Bluetooth, USB) is selected. Check external amplifier connections if applicable.
Wireless CarPlay/Android Auto Not Connecting	Bluetooth not enabled on phone/radio Incorrect pairing procedure Phone software outdated Interference	Ensure Bluetooth is on and paired. Restart phone and radio. Update phone's operating system. Try connecting in a different location to rule out interference.
Mirror Link Not Working	Non-original USB cable Phone settings preventing mirroring App compatibility issues	Use the original USB cable provided with your phone. Check phone's USB connection settings (e.g., USB debugging, file transfer mode). Ensure the Mirror Link app on your phone is updated.
Backup Camera Image Not Displaying	Camera not powered Video cable disconnected Reverse trigger wire not connected	Check camera power supply. Ensure video RCA cable is securely connected. Verify the reverse trigger wire (usually pink/brown) is connected to the vehicle's reverse light circuit.

Problem	Possible Cause	Solution
Battery Drain (after vehicle is off)	Constant 12V and Ignition 12V wires swapped Unit not entering standby mode correctly	Double-check the wiring for the yellow (constant 12V) and red (ignition 12V) wires. Ensure they are connected to the correct vehicle circuits. Consult a professional installer if the issue persists.

6. SPECIFICATIONS

Feature	Specification
Model Number	Roinvou-A3547A3US31-C251
Screen Size	6.86 inches
Screen Resolution	1280 x 480 pixels
Dimensions (Package)	10.39 x 9.06 x 4.69 inches
Item Weight	2.44 pounds
Connectivity Technology	USB, Bluetooth
Controller Type	Hand Control (Steering Wheel Control compatible)
Compatible Devices	Smartphone (Android, iOS)
Connector Type	RCA, USB2.0, Type-C
Audio Output Mode	Stereo
Number of Channels	4
Supported Internet Services	Maps (via Mirror Link/CarPlay/Android Auto)

7. WARRANTY AND SUPPORT

Roinvou products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or contact Roinvou customer support directly.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact Roinvou customer support. The manufacturer offers 24-hour customer support.

- Visit the official Roinvou store on Amazon: [Roinvou Store](#)
- Click 'Ask a question' on the product page or within the Roinvou store for direct assistance.



Figure 7.1: Customer Support Information. This image provides guidance on how to reach Roinvou customer service for support and inquiries.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question