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- › [Ruancheng](#) /
- › [Ruancheng Android Car Stereo GPS Navigation System R1 User Manual](#)

## Ruancheng R1

# Ruancheng Android Car Stereo GPS Navigation System R1 User Manual

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## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Ruancheng Android Car Stereo GPS Navigation System, Model R1. This advanced multimedia system features a 7-inch HD touchscreen, Android 12 operating system, 1.8GHz processor, 4GB RAM, and 64GB ROM, offering seamless navigation, entertainment, and connectivity.

Please read this manual thoroughly before using the product to ensure proper function and to maximize your user experience.

# Package Contents



Machine



Fracket screws



Power Cable



USB Cable



Video input cable



GPS module



MIC



RCA Cable



Instructions

**Image 1.1:** Ruancheng R1 Android Car Stereo installed in a vehicle dashboard. This image illustrates the device's appearance when integrated into a car's interior, showcasing its 7-inch display and physical buttons.

## 2. PACKAGE CONTENTS

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

- Car Multimedia Player (Main Unit)
- GPS Antenna
- USB Cable (x2)
- Reversing Line of Sight (for backup camera connection)
- Universal Power Cord
- RCA Line (Audio/Video cables)
- User Manual (this document)
- Microphone (MIC)
- Bracket Screws

# Smart Android car multimedia player

supporting Android, GPS navigation, FM, WiFi



**Image 2.1:** Visual representation of the Ruancheng R1 package contents. This image displays the main unit, GPS antenna, USB cables, reversing line, power cord, RCA cables, user manual, microphone, and bracket screws.

## 3. SETUP AND INSTALLATION

### 3.1 Product Dimensions

The Ruancheng R1 features a universal 2-DIN design. Before installation, ensure your vehicle's dashboard opening is compatible with the following dimensions:

**Width:** 178mm (7 inches)

**Height:** 102mm (4.01 inches)

**Depth:** 48mm (1.88 inches)

# size

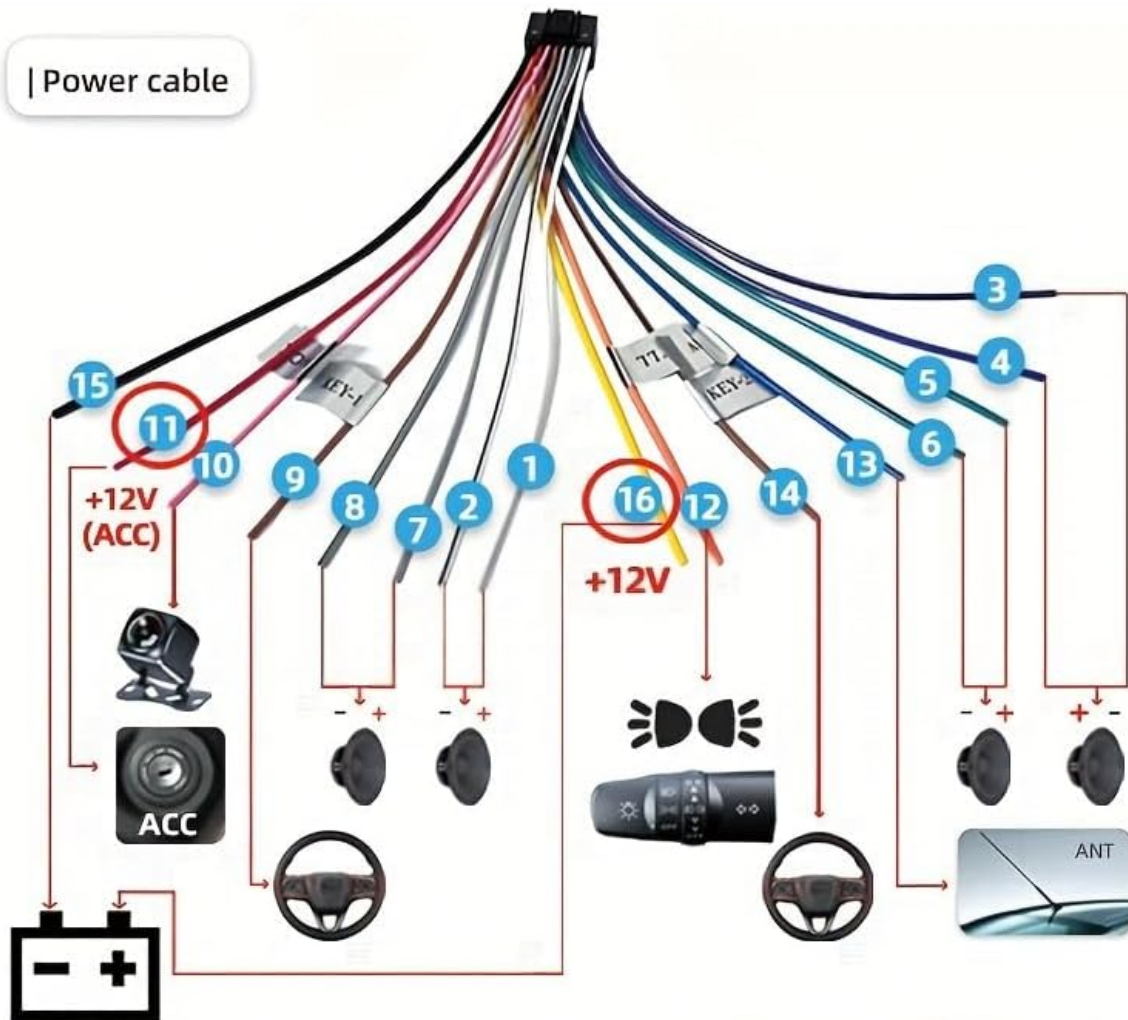


**Image 3.1:** Diagram showing the physical dimensions of the Ruancheng R1 unit. Measurements are provided in both millimeters and inches for width, height, and depth, indicating a 7-inch screen size.

## 3.2 Wiring Diagram

Refer to the following diagram for proper wiring connections. Incorrect wiring can damage the unit or your vehicle's electrical system. If you are unsure, consult a professional installer.

| Power cable



- |  |   |
|--|---|
| (1) White- Front Left Speaker+         | (9) Brown- Steering wheel control line        |
| (2) White black- Front Left Speaker -  | (10) Reversing control                        |
| (3) Purple black- Rear Right Speaker - | (11) Key switch-ACC(+12V)                     |
| (4) Purple- Rear Right Speaker +       | (12) Small light line                         |
| (5) Green- Rear Left Speaker+          | (13) Power Antenna/Amplifier Turn on          |
| (6) Green black- Rear Left Speaker-    | (14) Brown black- Steering wheel control line |
| (7) Grey- Front Right Speaker+         | (15) - GND                                    |
| (8) Gray black- Front Right Speaker-   | (16) + GND(+12V)                              |

**Image 3.2:** Comprehensive wiring diagram for the Ruancheng R1 car stereo. This diagram labels each wire by color and function, including connections for speakers, power (ACC, +12V, GND), reversing control, steering wheel control, antenna, and amplifier turn-on.

- Power Connection:** Connect the yellow wire to constant +12V (B+), the red wire to accessory +12V (ACC), and the black wire to ground (GND).
- Speaker Connections:** Connect the speaker wires according to the diagram (Front Left, Front Right, Rear Left, Rear Right). Ensure correct polarity (+/-).
- GPS Antenna:** Connect the GPS antenna to the dedicated port on the back of the unit and mount it in a location with a clear view of the sky.
- USB Cables:** Connect the provided USB cables for external device connectivity.
- Reversing Camera (Optional):** If installing a backup camera (purchased separately), connect its video output to the 'Reversing line of sight' input and its power to the reverse light circuit.
- Steering Wheel Control:** Connect the steering wheel control wires (KEY1, KEY2) if your vehicle supports this

feature. Configuration will be done in the system settings.

7. **RCA Cables:** Use the RCA cables for external amplifier connections or video output/input as needed.

### 3.3 General Installation Steps

1. Disconnect the vehicle's negative battery terminal before starting any electrical work.
2. Remove the existing car stereo or dashboard panel to access the mounting area.
3. Connect all necessary wiring harnesses as per the wiring diagram (Image 3.2).
4. Mount the Ruancheng R1 unit into the dashboard opening using the provided bracket screws.
5. Carefully reassemble the dashboard panels.
6. Reconnect the vehicle's negative battery terminal.
7. Turn on the vehicle and test the unit's functionality.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Power On/Off and Basic Navigation

- **Power On:** The unit will power on automatically when the vehicle's ignition is turned to ACC or ON.
- **Power Off:** The unit will power off automatically when the vehicle's ignition is turned off.
- **Touchscreen Interface:** Navigate through menus and applications by touching the icons on the 7-inch HD display. Swipe gestures are supported.

### 4.2 GPS Navigation

The unit comes with built-in GPS functionality. Ensure the GPS antenna is properly installed for optimal signal reception.

- Access the navigation application from the main menu.
- Input your destination using the on-screen keyboard.
- Follow the voice prompts and on-screen directions for turn-by-turn navigation.
- Maps can be updated via Wi-Fi or USB.

### 4.3 CarPlay and Android Auto

The Ruancheng R1 supports both Apple CarPlay and Android Auto for seamless smartphone integration.

- **Connection:** Connect your smartphone to the unit via one of the USB ports.
- **Activation:** The system should automatically detect and prompt you to activate CarPlay or Android Auto. Follow the on-screen instructions.
- **Features:** Access compatible apps such as navigation, music, messaging, and calls directly from the car stereo's display.

### 4.4 Bluetooth Connectivity

Pair your smartphone via Bluetooth for hands-free calling and audio streaming.

1. Go to the Bluetooth settings on the car stereo.
2. Enable Bluetooth on your smartphone and search for available devices.
3. Select 'Ruancheng R1' (or similar device name) from the list on your phone.
4. Confirm the pairing code on both devices.
5. Once paired, you can make/receive calls and stream audio wirelessly.

### 4.5 Steering Wheel Control Learning

If your vehicle has steering wheel controls, you can configure them to operate the car stereo.



**Image 4.1:** Illustration of the steering wheel control learning process. This image shows a car's steering wheel with highlighted control buttons and arrows pointing to the car stereo, indicating how to program functions like volume adjustment and track skipping.

1. Navigate to the 'Steering Wheel Control' settings in the system menu.
2. Follow the on-screen prompts to assign functions (e.g., volume up/down, track skip, mode) to your vehicle's steering wheel buttons.
3. Press and hold the desired button on your steering wheel, then select the corresponding function on the stereo's screen.
4. Repeat for all desired buttons.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your Ruancheng R1 car stereo, follow these maintenance guidelines:

- **Cleaning the Screen:** 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 harsh chemicals or abrasive materials.

- **General Cleaning:** Keep the unit and surrounding dashboard area free of dust and debris. Use a soft brush or compressed air for hard-to-reach areas.
- **Software Updates:** Periodically check for software updates through the system settings or the manufacturer's website to ensure you have the latest features and bug fixes.
- **Temperature:** Avoid exposing the unit to extreme temperatures for extended periods.

## 6. TROUBLESHOOTING

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If you encounter issues with your Ruancheng R1, refer to the following common problems and solutions:

- **No Power:**
  - Check all power connections (constant +12V, ACC, Ground) as per the wiring diagram.
  - Verify the vehicle's fuse for the stereo is intact.
- **No Sound:**
  - Ensure speaker wires are correctly connected and not short-circuited.
  - Check volume levels and mute settings.
  - If using an external amplifier, verify its power and connections.
- **GPS Signal Lost/Inaccurate:**
  - Ensure the GPS antenna is securely connected and mounted in a location with a clear view of the sky.
  - Avoid placing the antenna near metal objects that could interfere with the signal.
- **Bluetooth Connection Issues:**
  - Ensure Bluetooth is enabled on both the stereo and your smartphone.
  - Delete previous pairings on both devices and attempt to re-pair.
  - Move your phone closer to the stereo.
- **Touchscreen Unresponsive:**
  - Perform a soft reset (refer to system settings for reset options, or turn off vehicle ignition and restart).
  - Ensure the screen is clean and free of debris.

If problems persist after attempting these solutions, please contact customer support.

## 7. SPECIFICATIONS

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Key technical specifications for the Ruancheng Android Car Stereo GPS Navigation System R1:

Feature	Specification
Model Number	R1
Operating System	Android 12
Processor	4-core, 1.8GHz
RAM	4GB

Feature	Specification
ROM (Internal Storage)	64GB
Display Size	7 Inches
Display Type	HD Touchscreen
Connectivity	Bluetooth, GPS, USB, Wi-Fi
Special Features	CarPlay Support, GPS Navigation
Audio Output Mode	Stereo
Product Dimensions	7 x 4.01 x 1.88 inches (178 x 102 x 48 mm)
Item Weight	2.2 pounds

## 8. WARRANTY AND SUPPORT

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The Ruancheng R1 Android Car Stereo comes with a **1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries not covered in this manual, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty validation.