

[Manuals.plus](#) /

› [Retevis](#) /

› Retevis RT95 Dual Band Mobile Radio Instruction Manual

Retevis RT95

Retevis RT95 Dual Band Mobile Radio Instruction Manual

Model: RT95

INTRODUCTION

Thank you for choosing the Retevis RT95 Dual Band Mobile Radio. This manual provides essential information for the proper setup, operation, and maintenance of your device. The RT95 is a compact and versatile mobile transceiver designed for reliable long-range communication in various environments, including vehicles like trucks, jeeps, and RVs. Key features include a 180-degree rotatable TFT color display, adjustable microphone gain, dual speakers, and compatibility with CHIRP software for easy programming. It supports dual-band monitoring (2m/70cm) and offers VFO mode for quick frequency adjustments without a computer. The robust design incorporates a built-in heat dissipation fan, shockproof and dustproof structure, and a voltage protection system for enhanced durability.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Retevis RT95 Mobile Radio
- 1 x Power Cable
- 1 x Handheld Microphone
- 1 x Pack of Screws and Accessories
- 1 x User's Manual
- 1 x Magnet Mount Antenna

Package Includes



RT95 ham radio x1

Talking microphone x1



Power cable x1



Antenna x1



Main bracket x1



Bracket knob x2



Screw x2



Cable x1



Non-slip mat x2



Spare fuse x1



User manual x1

Figure 1: Package Contents. This image displays all components included with the Retevis RT95 Dual Band Mobile Radio: the radio unit, power cable, handheld microphone, a bag of screws and accessories, the user manual, and a magnet mount antenna.

SETUP

1. Physical Installation

The compact size of the RT95 (approximately 7.87 x 7.28 x 3.35 inches) allows for flexible installation in various vehicles. Use the provided main bracket and screws to securely mount the radio. Ensure adequate ventilation around the unit, especially given its built-in heat dissipation features.



Figure 2: Retevis RT95 Radio Unit. This image shows the main radio unit with the handheld microphone connected, alongside the magnet mount antenna and various cables and accessories.

2. Power Connection

1. Connect the provided power cable to the power input on the rear of the RT95 radio.
2. Connect the other end of the power cable to a 13.8V DC power source. Ensure proper polarity (red to positive, black to negative) to prevent damage. The radio features a voltage protection system.

3. Antenna Connection

Connect the magnet mount antenna to the SO-239 antenna connector on the rear of the radio. Position the antenna on a metallic surface for optimal performance.

4. Microphone Connection

Plug the handheld microphone into the microphone/program jack on the front panel of the radio.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press the **red power button** on the front panel to turn the radio on or off.

2. Display and Controls

The RT95 features a 180-degree rotatable TFT color screen, allowing for optimal viewing angles. The LCD brightness can be adjusted for clear visibility in various lighting conditions. Front panel buttons and microphone buttons are illuminated for night operation.



Figure 3: Front Panel Controls. This diagram labels the Power Switch, P1-P6 programmable keys, Microphone/Program Jack, Self-define keys, Function Menu key, and Channel switch/ Push button/ Key lock.



Figure 4: Handheld Microphone Controls. This diagram labels the UP/DOWN buttons, Lock UP/DOWN switch, TX/RX indicator, Mic, Number Keypad, Band indicator, Speaker, A/B Band button, and PTT (Push-To-Talk) button.

3. Frequency and Channel Selection

The RT95 is a dual-band mobile transceiver, capable of displaying and monitoring two frequencies simultaneously (2m/70cm bands). It supports 200 storage channels.

Dual Band/Dual Display

2m and 70cm mobile transceiver



Figure 5: Dual Band/Dual Display. This image illustrates the radio's ability to display and monitor both 2m and 70cm bands simultaneously.

- **VFO Mode:** For instant frequency adjustment without a computer, use the VFO mode. Rotate the Channel switch/ Push button/ Key lock knob to change frequencies.
- **Channel Mode:** Access stored channels.
- **Switching Bands:** Use the A/B button on the handheld microphone to switch between the main operating bands.

4. Programming and Customization

The RT95 is compatible with CHIRP open-source software for easy import/export of channel parameters. You can also program many settings directly from the radio's front panel.

● VFO Mode

Convenient channel editing without computer

● CHIRP

CHIRP compatible to suit your setup preferences



Figure 6: VFO Mode and CHIRP Compatibility. This image highlights the VFO mode for convenient channel editing without a computer and the radio's compatibility with CHIRP software for setup preferences.

To access the main menu for deeper settings:

1. Press and hold the **FUNC** button on the front panel.
2. Use the Channel switch/Push button/Key lock knob to navigate through the menu options (e.g., FUNC MENU, CHAN MENU, MINI KEY, HAND KEY, DTMF MENU).
3. Press the knob to select a menu.
4. Within a menu, rotate the knob to adjust settings and press to confirm.
5. Press the **P3** button to go back to the previous menu.

Common programmable settings include CTCSS/DCS tones, DTMF, 5Tone, power adjustment, squelch level, display mode (frequency/channel/name), and auto power off (APO).

5. Audio Features

The RT95 features built-in dual speakers (on the radio unit and microphone) for clear and penetrating sound quality. Adjust the microphone gain level to ensure clear and interference-free calls.

Clear Sound

Dual speaker: Built-in speaker with radio and microphone
Mic gain: Appropriate gain level to improve call quality



Figure 7: Clear Sound Features. This image highlights the dual speaker system and the microphone gain feature for improved call quality.

The radio also supports VOX (Voice-Operated Transmit) for hands-free operation, enhancing safety during mobile use.

VOX Hands Free

Free your hands and drive safely



Figure 8: VOX Hands-Free Operation. This image depicts a user operating the radio hands-free while driving, emphasizing the safety benefit of the VOX feature.

6. Video Demonstration: RT95 Function Introduction and Operation

Your browser does not support the video tag.

Video 1: RT95 Function Introduction and Operation. This video, provided by Retevis Direct, offers a detailed overview of the Retevis RT95 radio's functions and demonstrates how to operate its various features, including navigating menus and adjusting settings.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. Avoid using harsh chemicals or abrasive cleaners.
- **Heat Dissipation:** Ensure the built-in heat dissipation fan and heat sink fins are free from dust and obstructions to maintain continuous and stable operation, especially during high power output.
- **Environmental Protection:** While the radio has a shockproof and dustproof structure, it is not water resistant. Avoid

exposing the unit to moisture or extreme temperatures.

- **Firmware Updates:** Check the official Retevis website for any available firmware updates to ensure optimal performance and access to new features.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	No power, incorrect power connection, blown fuse.	Check power cable connection. Verify 13.8V DC power source. Check and replace the fuse if necessary.
No audio from speaker.	Volume too low, squelch too high, speaker setting incorrect.	Increase volume. Adjust squelch level. Check speaker output setting in FUNC MENU (SPK: MAIN/M&H).
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, power level too low.	Verify frequency and channel settings. Ensure antenna is securely connected. Check power output setting.
Display is dim or unreadable.	LCD brightness setting.	Adjust LCD brightness in the FUNC MENU.
Radio overheats.	Poor ventilation, prolonged high power transmission.	Ensure adequate airflow around the unit. Reduce transmission time or power output if necessary.

SPECIFICATIONS

Feature	Detail
Model Number	RT95
Product Dimensions	7.87 x 7.28 x 3.35 inches
Item Weight	2.2 pounds (1 Kilograms)
Number of Channels	200
Frequency Range	VHF, UHF (2m/70cm bands)
Talking Range Maximum	5 Kilometer

Feature	Detail
Tuner Technology	Dual band
Voltage	13.8 Volts
Water Resistance Level	Not Water Resistant
Special Features	Dual Band, Dual Band Mobile Transceiver, Mobile Two Way Radio, 180 Degree Rotatable LCD Display, Mic Gain, CHIRP Compatible, DTMF, 5Tone, Built-in Heat Dissipation Fan, Shockproof, Dustproof, Voltage Protection System, Emergency Alarm.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Retevis RT95 Mobile Radio, please refer to the official Retevis website or contact their customer service directly. Details can typically be found on the product packaging or the official brand store.

Retevis Direct: [Visit the Retevis Store on Amazon](#)