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› Retevis RT5R Dual Band Two-Way Radio User Manual

Retevis RT5R

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INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Retevis RT5R Dual Band Two-Way Radio. Please read this manual thoroughly before operating the device to ensure safe and efficient communication. Keep this manual for future reference.

PRODUCT OVERVIEW

The Retevis RT5R is a versatile dual-band two-way radio designed for amateur radio enthusiasts and various communication needs. It features dual display, dual watch capabilities, and a robust design.



Image: Retevis RT5R Two-Way Radio with its complete set of accessories, including the antenna, battery, charger, and belt clip.

Key Components and Controls



Image: Detailed diagram illustrating the various parts and controls of the Retevis RT5R radio, including the antenna, LED flashlight, knob (ON/OFF, Volume), strap buckle, VFO/MR key, PTT key, LED indicator, accessories jack, speaker, MONI key, A/B key, Band key, and keyboard.

- **Antenna:** For transmitting and receiving signals.
- **LED Flashlight:** Provides illumination.
- **Knob (ON/OFF, Volume):** Controls power and audio level.
- **Strap Buckle:** Attachment point for a hand strap.
- **VFO/MR Key:** Switches between Frequency Mode (VFO) and Channel Mode (MR).
- **PTT Key (Push-To-Talk):** Activates transmission.
- **LED Indicator:** Shows radio status (e.g., transmitting, receiving).
- **Accessories Jack:** For connecting external audio accessories like headsets.
- **Speaker:** Outputs audio.
- **MONI Key:** Monitors weak signals or opens the squelch.

- **A/B Key:** Switches between the upper and lower frequency display bands.
- **Band Key:** Switches between frequency bands.
- **Keyboard:** For direct frequency input, menu navigation, and function activation.

SETUP

1. Battery Installation and Charging

Before initial use, fully charge the battery. To install the battery, align it with the grooves on the back of the radio and slide it upwards until it clicks into place. To remove, press the release latch and slide the battery downwards.



Image: The Retevis RT5R radio's lithium-ion battery being charged in its dedicated charging cradle, indicating a 1400mAh capacity.

Place the radio with the battery installed into the charging cradle. Connect the USB cable to the cradle and a compatible USB power source (e.g., wall adapter, power bank, PC, car charger). The LED indicator on the charger will show charging status.

2. Antenna Attachment

Screw the antenna clockwise into the connector on the top of the radio until it is finger-tight. Do not overtighten.

3. Belt Clip Attachment

Attach the belt clip to the designated slot on the back of the radio using the provided screws. This allows for convenient carrying.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Adjustment

To power on the radio, rotate the top knob clockwise. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to power off.

2. Frequency/Channel Mode (VFO/MR)

Press the **VFO/MR** button to switch between Frequency Mode (VFO) for direct frequency input and Channel Mode (MR) for selecting pre-programmed channels.

3. Band Switching (A/B)

Press the **A/B** button to switch between the upper and lower frequency display bands. This allows you to monitor two different frequencies simultaneously.



One Button Switch

Dual Band
Dual Monitor



High Power
Long Distance

Image: The Retevis RT5R radio's display showing two active frequency bands, illustrating its dual band and dual monitor capabilities.

4. Transmitting (PTT Key)

To transmit, press and hold the **PTT** (Push-To-Talk) key on the side of the radio. Speak clearly into the microphone. Release the PTT key to receive.

5. Menu Navigation

Press the **MENU** button to access the radio's settings. Use the up/down arrow keys to navigate through options and the **MENU** button again to confirm selections. Press **EXIT** to return to the main screen.

6. VOX Function

The Voice Operated Exchange (VOX) function allows for hands-free transmission. When VOX is enabled, the radio will transmit automatically when it detects your voice. Adjust VOX sensitivity in the menu.

7. FM Radio

The radio includes an FM broadcast receiver. Activate this function via the menu or a dedicated key (if available) to listen to local FM stations.



Image: The Retevis RT5R radio's display showing an active FM radio frequency, indicating its built-in FM radio function.

8. LED Flashlight

The integrated LED flashlight can be activated for illumination in low-light conditions. Refer to the manual for specific key combinations or menu options to turn it on/off.



Image: The Retevis RT5R radio with its top-mounted LED flashlight emitting a bright beam, useful for dark environments.

9. Emergency Alarm

In an emergency, activate the alarm function. This will emit a loud siren sound and/or transmit an alarm signal to alert others. Consult the menu for alarm settings and activation.



Image: A visual representation of the Retevis RT5R radio's emergency alarm feature, showing a hand pressing a button and an alarm icon.

10. Repeater Connection

The RT5R can connect to a repeater to extend its communication range. This typically involves setting the correct offset and CTCSS/DCS tones in the radio's menu. Refer to local repeater information for specific settings.



Image: The Retevis RT5R radio shown in communication with a distant repeater tower, illustrating its capability for extended range via repeaters.

MAINTENANCE

1. Battery Care

- Do not short-circuit the battery terminals.
- Do not dispose of batteries in fire.
- Use only the specified charger for the battery.
- Avoid extreme temperatures when charging or storing.

2. Cleaning

Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use.

3. Storage

When storing the radio for extended periods, remove the battery and store both in a cool, dry place. Fully charge the battery before storage and periodically during storage to maintain its health.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; Incorrect battery installation	Charge the battery; Reinstall the battery correctly
Cannot transmit or receive	Incorrect frequency/channel; Antenna not attached; Low battery; Squelch level too high	Verify frequency/channel settings; Attach antenna securely; Charge battery; Adjust squelch level
Poor audio quality	Weak signal; Volume too low/high; Obstructions	Move to an open area; Adjust volume; Check for obstructions
Emergency alarm not working	Alarm function not enabled or configured	Check alarm settings in the menu

SPECIFICATIONS

Feature	Detail
Brand	Retevis
Model Number	RT5R
Color	Black
Frequency Range	136-174 MHz / 400-470 MHz
Number of Channels	128
Battery Composition	Lithium-ion
Battery Capacity	1400 mAh
Voltage	7.4 Volts
Maximum Range	4 Kilometers (approximate, depends on terrain)
Water Resistance Level	Not waterproof
Weight	480 Grams

Feature	Detail
Special Features	Dual band, Dual reception, Emergency alarm, LED flashlight, FM function, Repeater connection

WARRANTY AND SUPPORT

Warranty Information

Retevis offers a **2-year warranty** for the radio body and a **1-year warranty** for accessories from the date of purchase. Additionally, a **30-day no-reason return policy** is provided. Beyond the warranty period, maintenance services are still available. Buyers are responsible for any associated costs for out-of-warranty repairs.

Customer Support

For any questions, technical assistance, or warranty claims, please contact Retevis customer support directly through Amazon. We aim to respond to all inquiries within 12 hours.

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