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> Retevis RB48 Walkie Talkie User Manual - Advanced Triple Proof Two-Way Radio

## Retevis RB48

# Retevis RB48 Walkie Talkie User Manual

Advanced Triple Proof Two-Way Radio with G-Type Earpiece

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and effective operation of your Retevis RB48 Walkie Talkie. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage. The Retevis RB48 is a robust, IP67-rated two-way radio designed for reliable communication in various environments.

## 2. PACKAGE CONTENTS

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Upon unpacking, please verify that all items listed below are present and in good condition. If any items are missing or damaged, contact your retailer.



# Package List



2X RB48 two way radio



1X charging base



1X charging cable



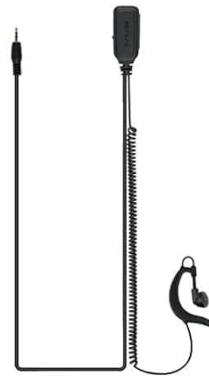
1X adapter



2X lanyard



2X belt clip



2X earpiece



1X user manual

Figure 2.1: Retevis RB48 Package Contents

- 2x Retevis RB48 Two-Way Radios (with Li-ion battery)
- 1x Charging Base
- 1x Charging Cable (USB-C)
- 1x Power Adapter
- 2x Lanyards
- 2x Belt Clips
- 2x G-Type Earpieces
- 1x User Manual

### 3. PRODUCT OVERVIEW AND FEATURES

The Retevis RB48 is engineered for durability and clear communication. Key features include:

- **Advanced Triple Proof Design:** IP67 waterproof and dustproof, and 2-meter drop-proof for resilience in harsh conditions.

- **Long Range Communication:** Capable of penetrating multi-story buildings, ensuring stable peer-to-peer communication.
- **2000mAh Rechargeable Battery:** Provides up to 20 hours of operation, with convenient USB-C charging.
- **NOAA Weather Alert:** Access to 11 NOAA channels for real-time weather updates and forecasts.
- **Tri-Reinforced Rib Design:** Enhanced durability with reinforced belt clips and a reliable antenna.
- **Vibration Reminder:** Alerts you to incoming calls in noisy environments without audible alerts.
- **Emergency Alarm:** Activates an alarm in dangerous situations for timely assistance.
- **VOX Function:** Hands-free communication capability.
- **Ergonomic Design:** Yellow color for high visibility, lightweight for comfortable wear, and silicone button covers for environmental protection.

## 4. SETUP

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### 4.1 Battery Installation

To install the battery:

1. Ensure the radio is powered off.
2. Locate the battery compartment cover on the back of the radio.
3. Remove the battery compartment cover.
4. Insert the 2000mAh Li-ion battery into the compartment, ensuring the contacts align.
5. Replace the battery compartment cover and secure it firmly.



Figure 4.1: Battery Installation

## 4.2 Charging the Radio

The RB48 walkie talkie features a 2000mAh lithium battery and supports USB-C charging.

1. Place the radio into the charging base.
2. Connect the charging cable to the charging base and then to the power adapter.
3. Plug the power adapter into a standard electrical outlet.
4. The charging indicator on the radio or base will show the charging status (e.g., red for charging, green for fully charged).
5. A full charge typically takes approximately 3-4 hours.

### 4.3 Attaching Accessories

- **Belt Clip:** Align the belt clip with the designated slots on the back of the radio and slide it down until it clicks into place.
- **Lanyard:** Thread the lanyard through the loop on the top or side of the radio.
- **Earpiece:** Insert the 2.5mm plug of the G-type earpiece into the audio jack on the side of the radio. Ensure it is fully inserted for proper connection.



Figure 4.2: Connecting the G-Type Earpiece

## 5. OPERATING INSTRUCTIONS

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## 5.1 Power On/Off

To power on the radio, rotate the Power/Volume knob clockwise until you hear a click. To power off, rotate the knob counter-clockwise until it clicks.

## 5.2 Channel Selection

To change the operating channel:

1. Press the **Menu** key once. The current channel number will flash on the display.
2. Use the side **Up/Down** buttons to select the desired channel.
3. Press the **PTT** (Push-to-Talk) button to save the selection.

## 5.3 CTCSS/DCS (Privacy Codes)

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) codes help filter out unwanted conversations on a channel.

1. Press the **Menu** key twice. The CTCSS/DCS setting will flash.
2. Use the side **Up/Down** buttons to select the desired CTCSS/DCS code.
3. Press the **PTT** button to save the selection.

# IMPORTANT NOTICE

- **When two RB48s cannot talk to each other, please make sure they are on the same channel and have the same CTCSS/DCS. All RB48 can talk to each other out of the box without setting up.**
- **Press the menu key once, the current channel will flash, press the side button to select the channel. Press the menu key again, the CTCSS will flash, press the side button to select the CTCSS and press the PTT key to save.**



- **The buttons of RB48 are locked, How to unlock the Key-Lock function?**
- **Please don't worry, Key-Lock function to avoids misoperation, long press the menu key to turn off Key-Lock function, when the key icon disappears, you can use it normally.**

Figure 5.1: Channel and CTCSS/DCS Settings

## 5.4 Push-to-Talk (PTT) Operation

To transmit, press and hold the **PTT** button located on the side of the radio. Speak clearly into the microphone. Release the **PTT** button to receive.



Figure 5.2: Dual PTT Button Design

### 5.5 VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When activated, the radio will transmit automatically when it detects your voice.

- Refer to the radio's menu settings to enable and adjust the VOX sensitivity level (0-9).
- A higher sensitivity level means the radio will transmit with softer voice input.

### 5.6 Emergency Alarm

In an emergency, press the dedicated **SOS** button (if available) or follow the manual's instructions to activate the emergency alarm. This will emit a loud alert signal.

### 5.7 Vibration Reminder

The vibration reminder function alerts you to incoming calls through vibration, which is useful in noisy environments or when discretion is required. This feature can typically be enabled or disabled through the radio's menu.

### 5.8 NOAA Weather Alert

To access NOAA weather channels and alerts:

1. Navigate to the NOAA weather channel mode via the menu.
2. Select from the 11 available NOAA channels to receive local weather broadcasts and emergency alerts.

## 5.9 Key Locking/Unlocking

The Key-Lock function prevents accidental button presses.

- To lock the keys, long press the **Menu** key until a key lock icon appears on the display.
- To unlock, long press the **Menu** key again until the key lock icon disappears.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Fully charge the battery before initial use. For long-term storage, charge the battery to approximately 50% and store in a cool, dry place. Avoid extreme temperatures.
- **Water and Dust Protection:** While the RB48 is IP67 rated, ensure all port covers are securely closed to maintain water and dust resistance.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radios cannot communicate with each other.	Different channels or CTCSS/DCS codes.	Ensure both radios are on the same channel and have the same CTCSS/DCS code. Refer to Section 5.2 and 5.3.
Radio is not transmitting or receiving.	Low battery, out of range, or incorrect settings.	Check battery level and recharge if necessary. Move closer to the other radio. Verify channel and CTCSS/DCS settings.
Buttons are unresponsive.	Key-Lock function is active.	Long press the <b>Menu</b> key to unlock the keys. Refer to Section 5.9.
Poor audio quality or static.	Weak signal, interference, or earpiece issue.	Move to an open area. Check earpiece connection. Adjust volume.
Battery not charging.	Improper connection or faulty charger/battery.	Ensure the radio is correctly seated in the charging base and the cable/adaptor are securely connected. Try a different power outlet.

## 8. SPECIFICATIONS

Feature	Specification
Model	RB48
Brand	Retevis

Feature	Specification
Tuner Technology	FRS
Frequency Range	462-467 MHz
Number of Channels	22
Battery Capacity	2000mAh Lithium Ion
Battery Average Life	18-20 Hours (5% transmit/5% receive/90% standby)
Voltage	3.7 Volts
Water Resistance Level	IP67 Waterproof
Special Features	Dust Proof, Emergency Alarm, Heavy Duty, VOX, Vibration Reminder
Compatible Devices	Retevis RB48, Heavy-duty accessories
Dimensions (approx.)	7.1 inches (height) x 2.4 inches (width) x 1.3 inches (depth)

## 9. WARRANTY AND SUPPORT

Retevis products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Retevis website. Keep your purchase receipt as proof of purchase for warranty claims.

## 10. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the radio:

- Do not operate the radio in explosive atmospheres (e.g., near flammable gas, dust particles, metallic powders).
- Do not disassemble or modify the radio. Repairs should only be performed by authorized personnel.
- Use only Retevis-approved batteries and chargers.
- Avoid exposing the radio to direct sunlight for extended periods or to extreme temperatures.
- Keep the radio away from medical devices, as it may interfere with their operation.
- Do not use the radio while driving or operating heavy machinery if it distracts you.