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Retevis RB85

Retevis RB85 2 Way Radio User Manual

Model: RB85 | Brand: Retevis

1. Introduction

The Retevis RB85 is a high-power professional two-way radio engineered for reliable long-range communication. Featuring advanced AI noise cancelling technology, it ensures clear audio even in noisy environments. This manual will guide you through its features and proper usage.



Figure 1: Retevis RB85 Two-Way Radios with Accessories.

Key features include:

- Long range communication with high power and loaded antenna.
- Intelligent noise reduction technology, blocking 99.8% of background noise.
- Designed for commercial environments: campus security, high-rise buildings, manufacturing plants, warehousing, logistics.
- 2000 mAh Li-ion battery providing up to 72 hours standby time.
- Local and remote emergency alert for enhanced safety.
- Portable, handheld size with belt attachment clip.
- Supports CHIRP, VOX, and squelch functions.

Product Introduction Video

Video 1: Retevis RB85 Long Range Walkie Talkies Introduction. This video provides an overview of the RB85's main features and design.

2. What's in the Box

Your Retevis RB85 package includes the following items:

- 2x RB85 Two Way Radio
- 2x 2000mAh Li-ion Battery
- 2x USB Charger and Adapter, Back Clip
- Earpiece
- User Manual



Figure 2: Package Contents of the Retevis RB85.

3. Setup Guide

3.1. Battery Installation and Charging

Before first use, ensure the battery is fully charged. The RB85 uses a 2000mAh Li-ion battery.

1. Align the battery with the grooves on the back of the radio and slide it into place until it clicks securely.
2. Connect the USB charger to the charging base.
3. Place the radio (or just the battery) into the charging base. The indicator light on the charger will show the charging status.



Figure 3: Charging the Retevis RB85.



Figure 4: RB85 Battery and Radio Back Panel.

3.2. Attaching the Antenna

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

3.3. Attaching the Belt Clip

Secure the belt clip to the designated area on the back of the radio using the provided screws.

4. Operating the Radio

4.1. Power On/Off and Volume Adjustment

Rotate the top-most knob clockwise to power on the radio. Continue rotating to increase the volume. Rotate counter-clockwise to decrease volume and power off.

4.2. Channel Selection

The RB85 features 16 channels. Rotate the second knob from the top to select your desired channel. The radio will audibly announce the selected channel number.

4.3. Push-to-Talk (PTT) Button

To transmit, press and hold the large button on the side of the radio. Speak clearly into the microphone. Release the button to listen for incoming transmissions.

4.4. Noise Reduction Function

The RB85 incorporates intelligent noise reduction to filter out background noise, ensuring clear communication. This feature automatically recognizes and reduces ambient noise.



Figure 5: Intelligent Noise Reduction Feature.

Noise Reduction Demonstration Video

Video 2: Measured the noise reduction function of the walkie talkie. This video demonstrates the effectiveness of the noise reduction feature in different environments.

4.5. Communication Range

The RB85 is designed for long-range communication, covering up to 700,000 square feet and penetrating up to 50 floors in ideal conditions. Actual range may vary based on terrain, obstacles, and atmospheric conditions.



Figure 6: Factors Affecting Radio Range.



Figure 7: RB85 Long Range Capability.

Range Test Video

Video 3: Look at the range of the walkie talkies outdoors. This video demonstrates the radio's range in an outdoor setting.

5. Maintenance

5.1. Battery Care

- To maximize battery life, fully charge the battery before first use.
- Avoid overcharging or completely draining the battery.
- Store the radio and battery in a cool, dry place when not in use for extended periods.

5.2. Cleaning

- Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the charging contacts are clean and free of debris for optimal charging.

6. Troubleshooting

If you encounter issues with your Retevis RB85, consider the following common solutions:

- **No Power:** Check if the battery is properly installed and fully charged. Ensure the power knob is turned on.
- **Poor Audio Quality/Static:** Verify that both radios are on the same channel. Check for obstacles between radios. Ensure the antenna is securely attached. Adjust squelch settings if programmable.
- **Limited Range:** Obstacles like buildings and terrain can significantly reduce range. Try moving to a higher or more open location. Ensure the battery is fully charged.
- **Cannot Transmit/Receive:** Confirm the PTT button is fully pressed when transmitting and released when receiving. Check if the radio is on the correct channel.

For persistent issues, please refer to the detailed troubleshooting section in the full user manual or contact customer support.

7. Specifications

Feature	Detail
Model Number	RB85
Item Weight	13.8 ounces
Product Dimensions	1.66 x 7.64 x 9.96 inches
Country of Origin	China
Batteries	2 Lithium Ion batteries required (included)
Number of Channels	16
Talking Range Maximum	9.66 Kilometer
Water Resistance Level	Water Resistant
Special Feature	Intelligent noise reduction, Support CHIRP; VOX; SQL, Local and remote emergency alarm, High power long range 2 way radio, Easy to use

8. Warranty and Support

8.1. Warranty Information

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. We also offer a 30-day no-reason return policy. Beyond the warranty period, maintenance services are available, with buyers responsible for corresponding costs.

8.2. Customer Support

For any questions, technical assistance, or warranty claims, please contact Retevis customer support on Amazon. We aim to reply within 12 hours.

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