

Retevis FA9195AX2

Retevis RT85 Ham Radios User Manual

Model: FA9195AX2

1. INTRODUCTION

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your Retevis RT85 Ham Radios. Please read this manual thoroughly before using the device to ensure safe and optimal performance.

2. WHAT'S IN THE BOX

Package Includes



2 x RT85 two-way radio



2 x Battery



2 x Antenna



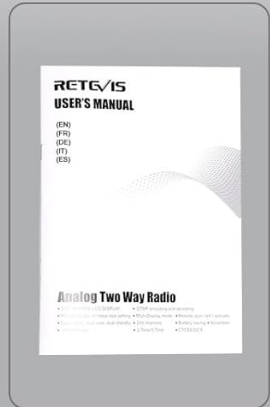
2 x charger



2 x belt clip



2 x sling



2 x user manual

Figure 2.1: Package Contents of Retevis RT85 Two-Way Radios.

Upon unboxing your Retevis RT85 Ham Radios, you should find the following items:

- 2 x Retevis RT85 two-way radio
- 2 x Battery (1400mAh Lithium Ion)
- 2 x Antenna
- 2 x Charger (charging base and power adapter)
- 2 x User Manual
- 2 x Sling
- 2 x Belt Clip

3. PRODUCT FEATURES

The Retevis RT85 Ham Radios offer a robust set of features designed for reliable communication:

- **Long Range Communication:** High-power design with wide signal transmission range and strong penetration. Can connect to a repeater for extended range.
- **Dual-Band Operation:** A/B bands operate independently, allowing simultaneous display and reception on two channels.
- **200 Channels:** Features 50 CTCSS and 104 DCS for secure calls. VFO function allows direct frequency editing and saving via the keyboard.
- **Durable Construction:** Made from ABS material, designed to withstand shock and vibration in harsh environments.
- **CHIRP Support:** Programmable for personalized needs, with digital keyboard for easy CTCSS and DCS adjustment without a computer.
- **Emergency Features:** SOS emergency alarm function and stable signal transmission for emergency preparedness.
- **Rechargeable Battery:** 1400mAh battery provides 10-12 hours continuous use and over 72 hours standby. Includes charging base and power-saving function.
- **Keyboard Lock:** Prevents accidental channel switching and missed communications.
- **Antenna Compatibility:** RT85 radio antenna is male, compatible with Retevis SMA-Male Antenna.
- **FCC Certified:** FCC ID: 2ASNSRT85.

4. SETUP AND GETTING STARTED

4.1 Battery Installation and Charging

Before first use, ensure the battery is fully charged. Attach the battery to the radio by aligning the contacts and sliding it into place until it clicks securely. Place the radio with the battery attached into the charging base. Connect the power adapter to the charging base and a power outlet.

1400mAh Battery



Figure 4.1: Battery and Charging Setup.

4.2 Attaching the Antenna and Belt Clip

Screw the antenna clockwise onto the top connector of the radio until it is finger-tight. The belt clip attaches to the back of the battery. Secure it using the provided screws.



Figure 4.2: Back of the radio and battery with belt clip attachment.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

To power on the radio, rotate the Power/Volume knob clockwise. The LCD display will illuminate. Rotate the knob further to adjust the volume.



Figure 5.1: Retevis RT85 Product Parts Diagram.

5.2 VFO Mode and Frequency Entry

To enter VFO mode, short press the '#' (pound) button on the keypad. If this does not work, turn the radio off, then press and hold '1' and '7' simultaneously while turning the radio back on. This should unlock VFO mode. Once in VFO mode, you can directly input frequencies using the numeric keypad.

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Video 5.1: How to use Retevis RT85 dual band radio. This video demonstrates basic operation and VFO mode activation.

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Video 5.2: How to set Retevis RT85 walkie talkie function via keyboard? This video provides detailed steps for keyboard programming.

5.3 Dual-Band and Dual Display

The RT85 features dual-band and dual-display capabilities, allowing you to monitor two frequencies simultaneously. Use the A/B button to switch between the upper and lower display frequencies.



Figure 5.2: Dual-Band Display.

5.4 Communication with Other Radios

To communicate with other walkie-talkies, ensure both radios are set to the same frequency and CTCSS/DCS tones if applicable. Press and hold the PTT (Push-to-Talk) button on the side of the radio to transmit, and release to listen.

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Video 5.3: How RT85 dual-band radio talk to other walkie-talkies? This video demonstrates cross-radio communication.

5.5 CHIRP Software Programming

The Retevis RT85 supports programming via CHIRP software, allowing for advanced customization of channels, frequencies, and settings. Connect the radio to your computer using a compatible programming cable. Refer to the CHIRP software documentation for detailed programming instructions.

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Video 5.4: How to use CHIRP. This video explains how to use CHIRP software for radio programming.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Retevis RT85 radios, follow these maintenance guidelines:

- Keep the radio clean by wiping it with a soft, damp cloth. Avoid harsh chemicals.
- Do not disassemble the radio. Unauthorized disassembly voids the warranty.
- Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- Ensure the battery contacts are clean and free of debris.

7. TROUBLESHOOTING

If you encounter issues with your Retevis RT85, try the following basic troubleshooting steps:

| Problem | Possible Cause | Solution |
|----------------------------|---|--|
| Radio not turning on | Low battery; Incorrect battery installation | Charge the battery; Reinstall the battery correctly |
| Cannot transmit or receive | Incorrect frequency/tone settings; Out of range | Verify frequency and CTCSS/DCS settings; Move closer to other radios or a repeater |
| Poor audio quality | Weak signal; Obstructions; Damaged antenna | Move to an open area; Check antenna connection; Replace antenna if damaged |

For further assistance, please contact Retevis customer support via Amazon email.

8. SPECIFICATIONS

| Specification | Value |
|--------------------|---|
| Item Weight | 8 ounces (0.5 Pounds) |
| Product Dimensions | 4.76 x 2.32 x 1.34 inches |
| Item Model Number | FA9195AX2 |
| Batteries | 1 Lithium Ion battery required (included) |
| Display Type | LCD |
| Number of Channels | 200 |
| Special Feature | Dual band and dual display, LCD display |
| Frequency Range | Analog |

| Specification | Value |
|------------------------|---------------------|
| Voltage | 7.4 Volts (DC) |
| Water Resistance Level | Not Water Resistant |

9. WARRANTY AND SUPPORT

Retevis provides a 2-year warranty for the radio body and a 1-year warranty for accessories. You also have 30 days for no-reason returns. Beyond the warranty period, maintenance services are still offered, with buyers responsible for associated costs.

For any questions or support needs, please contact Retevis Direct via Amazon email. They aim to reply within 12 hours.