

## radtel RT-817A

# Radtel RT-817A Dual Band Walkie Talkie User Manual

Model: RT-817A

## 1. PRODUCT OVERVIEW

The Radtel RT-817A is a high-power dual-band walkie talkie designed for reliable long-range communication. It supports AM/FM/VHF/UHF frequencies, features 1024 channels, NOAA weather alerts, DTMF, and VOX functionality. Its robust design and Type-C fast charging make it suitable for various outdoor and professional environments.

### 1.1. Package Contents



The Radtel RT-817A package typically includes the following items:

- 1x RT-817A Main unit
- 1x 2400mAh Li-ion Battery
- 1x Dual band short antenna
- 1x Dual band long antenna
- 1x Belt Clip
- 1x Type C charging Cable
- 1x Power supply with USB port
- 1x English User Manual

*Description: This image displays all components included in the Radtel RT-817A product box, such as the radio unit, two antennas of different lengths, the battery, a charging cradle, a power adapter, a USB-C cable, a belt clip, and the user manual.*

### 1.2. Radio Components



Familiarize yourself with the main components of the RT-817A radio:

- **Antenna:** For transmitting and receiving signals.
- **Volume Knob:** Adjusts audio output level.
- **Channel Knob:** Selects channels or adjusts frequency in VFO mode.
- **Earphone/Programming Jack:** Connects external audio accessories or programming cable.
- **Type-C Charging Port:** For direct charging via USB-C cable.
- **Display:** Shows frequency, channel, battery status, and other indicators.
- **PTT (Push-to-Talk) Button:** Activates transmission.
- **Side-key 1 & 2:** Customizable shortcut buttons.
- **Keypads:** For manual frequency input, channel selection, and menu navigation.
- **Speaker:** Audio output.
- **MIC (Microphone):** For voice input.

*Description: This image provides a detailed, labeled diagram of the Radtel RT-817A radio from multiple angles, pointing out key features such as the antenna, volume knob, channel knob, earphone/programming jack, Type-C charging port, display, PTT button, side keys, keypad, speaker, and microphone.*

## 2. SETUP AND INSTALLATION

### 2.1. Battery Installation and Charging

Before initial use, fully charge the battery. The RT-817A supports both cradle charging and direct Type-C charging.

1. **Install Battery:** Align the battery pack with the grooves on the back of the radio and slide it into place until it clicks securely.
2. **Cradle Charging:** Place the radio with the battery installed into the charging cradle. Ensure the charging contacts align. The indicator light on the cradle will show charging status (e.g., red for charging, green for fully charged).
3. **Type-C Charging:** Connect a Type-C USB cable to the charging port on the side of the radio and plug the other end into a compatible USB power source (e.g., wall adapter, power bank, computer USB port).

## Multiple charging options

● Green:Fully charged ● Red:Charging



radio can be charge by type c cable, but the cable not included.



*Description: This image illustrates the various ways to charge the Radtel RT-817A, including placing it in its charging cradle (with indicators for charging and full) and connecting a USB-C cable directly to the radio, demonstrating compatibility with car chargers, laptops, and power banks.*

A full charge typically takes less than 3 hours. Avoid overcharging for prolonged battery life.

## 2.2. Antenna Attachment

The RT-817A comes with two antennas: a short antenna and a long antenna. Choose the appropriate antenna based on your communication needs. The long antenna (771 High Gain Antenna) generally provides better range.

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



*Description: This image shows the Radtel RT-817A radio unit alongside both the standard short antenna and the extended long antenna, illustrating the two options available for signal reception and transmission.*



Description: This image features the Radtel RT-817A radio with the 38cm (14.96 inch) 771 High Gain Antenna attached, emphasizing its length and potential for ultra-long range communication against a mountainous backdrop.

### 3. OPERATING INSTRUCTIONS

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#### 3.1. Power On/Off and Volume Control

- **Power On:** Rotate the Volume Knob (top-left knob) clockwise until you hear a click. The display will light up.
- **Power Off:** Rotate the Volume Knob counter-clockwise until you hear a click and the display turns off.
- **Volume Adjustment:** Once powered on, continue rotating the Volume Knob to increase (clockwise) or decrease (counter-clockwise) the audio output level.

#### 3.2. Channel and Frequency Selection

The RT-817A operates in two main modes: Channel Mode and VFO (Frequency) Mode.

- **Switching Modes:** Use the appropriate function key (refer to your manual's specific key assignments) to toggle between Channel Mode and VFO Mode.
- **Channel Mode:** Use the Channel Knob (top-right knob) or the Up/Down arrow keys on the keypad to select from the 1024 pre-programmed channels.
- **VFO Mode:** Manually input frequencies using the numeric keypad. Use the Up/Down arrow keys or the Channel Knob for fine-tuning.

#### 3.3. Transmitting and Receiving

- **Receiving:** When the radio is powered on and tuned to an active frequency/channel, it will automatically receive incoming transmissions.
- **Transmitting:** To transmit, press and hold the PTT (Push-to-Talk) button on the left side of the radio. Speak clearly into the microphone (located at the bottom front of the radio). Release the PTT button to stop transmitting and return to receive mode.

#### 3.4. High Power Output (10W-18W)

The RT-817A offers adjustable power output levels, from 10W to 18W, to optimize communication range and battery life.

- **Adjusting Power:** Access the power setting through the radio's menu system. Consult the detailed menu guide in the full user manual for specific steps. Higher power settings provide greater range but consume more battery.



*Description: This image emphasizes the 18W high power output of the Radtel RT-817A radio, indicating that three types of power levels can be adjusted as needed for optimal performance.*

### 3.5. Customizable Shortcut Keys

The RT-817A features customizable side keys and keypad shortcuts for quick access to frequently used functions.

- **Programming Shortcuts:** Use the radio's menu or programming software to assign functions like VOX activation, channel scan, or "Freq Detect" to the side keys (Side-key 1, Side-key 2) and specific keypad buttons.



*Description: This image highlights the customizable shortcut keys on the Radtel RT-817A, showing close-ups of the side buttons and the keypad, explaining that functions like recording, squelch, and band switching can be assigned to increase operational efficiency.*

### 3.6. Advanced Features

The RT-817A includes several advanced features for enhanced usability:

- **VOX (Voice Operated Exchange):** Enables hands-free transmission when voice is detected. Adjust VOX sensitivity in the menu.
- **NOAA Weather Alerts:** Tune into NOAA channels for real-time weather broadcasts and alerts.
- **DTMF (Dual-Tone Multi-Frequency):** For signaling and control applications.
- **Scanning:** Scan through channels or frequencies to find active transmissions.

- **One-Click Frequency Matching:** Allows two RT-817A units to quickly match frequencies for seamless communication.
- **Monitoring:** Temporarily disables squelch to listen for weak signals.
- **Scrambling:** Encrypts voice transmissions for privacy.
- **Timeout Timer (TOT):** Limits transmission time to prevent accidental continuous transmission.
- **Auto Keylock:** Automatically locks the keypad to prevent accidental button presses.



*Description: This image showcases the Radtel RT-817A radio and highlights its professional-grade features, including triple power, NOAA weather alerts, 1024 channels, alarm, AM reception, copy frequency, DTMF, MF, scan, and monitor functions.*

## 4. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Radtel RT-817A.

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store the battery in a cool, dry place when not in use. Avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50% capacity.
- **Environmental Protection:** While the RT-817A is designed to be robust, it is not water-resistant. Protect it from direct exposure to water, extreme temperatures, and excessive dust.



*Description: This image depicts the Radtel RT-817A radio in a challenging outdoor setting with rocks, emphasizing its dustproof and drop-proof construction, suggesting its suitability for extreme environments.*

## 5. TROUBLESHOOTING

If you encounter issues with your RT-817A, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or ensure it is properly seated.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, or out of range.	Verify frequency/channel, check antenna connection, move closer to other radios.
Poor audio quality.	Low battery, weak signal, or incorrect squelch setting.	Charge battery, adjust squelch level, or try a different location.
Keypad is unresponsive.	Keylock feature is active.	Deactivate keylock (refer to manual for specific key combination).

For more complex issues, refer to the comprehensive troubleshooting section in the full user manual or contact customer support.

## 6. SPECIFICATIONS

Feature	Detail
Model Number	RT-817A
Item Weight	1.67 pounds (approx. 0.76 kg)
Product Dimensions	1.97 x 2.76 x 6.3 inches (approx. 5 x 7 x 16 cm)
Battery Type	1x 9V Li-ion battery (included)

Feature	Detail
Battery Capacity	2400mAh
Number of Channels	1024
Frequency Range	144-148MHz / 420-450MHz (VHF/UHF)
Additional Frequencies	FM (64-108MHz), AM (108-136MHz)
Output Power	10W-18W (adjustable)
Talking Range Maximum	15 Kilometers (approx. 9.3 miles)
Voltage	7.4 Volts
Water Resistance Level	Not Water Resistant
Special Features	Type-C charging, Customizable keys, One-click frequency matching, VOX, NOAA, DTMF, Scrambling, TOT, Auto Keylock
Manufacturer	Xiamen Radtel Electronics Co.,Ltd

## 7. WARRANTY AND SUPPORT

### 7.1. Warranty Information

The Radtel RT-817A comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

*Note: The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or exposure to water.*

### 7.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Radtel Direct customer support. Refer to the contact information provided with your purchase or visit the official Radtel website for support details.

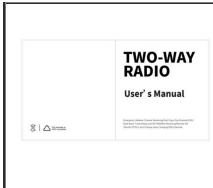
You can also visit the [Radtel Store on Amazon](#) for additional product information and support resources.

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### Related Documents

	<a href="#">Radtel RT-900 Two Way Radio User Manual and Specifications</a> Comprehensive guide to the Radtel RT-900 Two Way Radio, covering features, operation, menu functions, technical specifications, and safety information.
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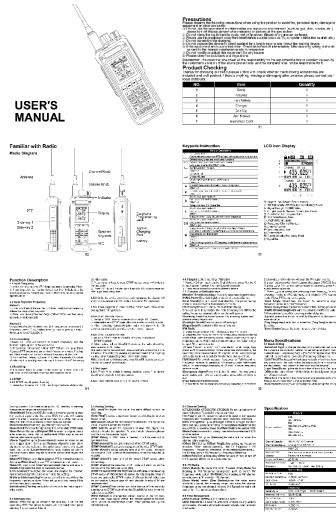
	<p><a href="#"><b>Radtel RT-860 Two-Way Radio User Manual and Specifications</b></a></p> <p>Comprehensive user manual for the Radtel RT-860 two-way radio, detailing its features, operation, keypad functions, LCD display, various settings (analog, channel, zone, radio, temporary message), and technical specifications. Includes precautions and troubleshooting information.</p>
	<p><a href="#"><b>Radtel RT-470X Two-Way Radio User Manual: Features, Operation, and Safety</b></a></p> <p>Comprehensive user manual for the Radtel RT-470X two-way radio. Learn about button functions, menu operations, FM radio, NOAA weather, DTMF, safety guidelines, and RF exposure compliance.</p>



## [Two-Way Radio User's Manual](#)

Comprehensive user's manual for a two-way radio, detailing features, operations, safety precautions, and FCC compliance information. Covers functions like emergency weather channels, multi-band transmission, VOX, keypad lock, and various scanning modes.

Documents - radtel – RT-817A



## [Radtel RT-817A User Manual - Two-Way Radio Operation Guide](#)

Detailed user manual for the Radtel RT-817A two-way radio, covering precautions, operation, keypad functions, menu settings, and technical specifications for optimal use.

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