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radtel RT-860

Radtel RT-860 Multi Band Ham Radio User Manual

Model: RT-860 | Brand: Radtel

Introduction

The Radtel RT-860 is a versatile multi-band ham radio designed for both commercial and recreational use. It features robust construction, extensive channel support, and multiple reception modes including AM, FM, USB, LSB, CW, CB, LW, MW, SW, and SSB, along with Air-Band RX. Its ergonomic design ensures comfortable handling, and convenient Type-C charging provides flexibility for power management.
This manual provides detailed instructions for the setup, operation, and maintenance of your RT-860 radio, ensuring optimal performance and longevity.

What's in the Box

- 1x RT-860 Main unit
- 1x 2000mAh Li-ion Battery
- 1x Dual band antenna
- 1x Desktop charger
- 1x Lanyard
- 1x Belt Clip
- 1x Type C charging Cable
- 1x Power supply with USB port
- 1x English User Manual

Setup Guide

1. Battery Installation and Charging

Before initial use, fully charge the 2000mAh Li-ion battery. The RT-860 supports both desktop charger and Type-C direct charging.

1. Align the battery with the compartment on the back of the radio and press firmly until it clicks into place.
2. To charge using the desktop charger: Place the radio into the charging cradle. Ensure the charging indicator light illuminates.
3. To charge using Type-C: Connect the Type-C cable to the radio's Type-C port and a compatible USB power source.
4. A full charge typically takes approximately 3-4 hours. The charging indicator will change color or turn off when charging is complete.



Figure 1: Radtel RT-860 with its accessories, including the dual-band antenna and charging options.



Figure 2: Close-up of the RT-860 demonstrating the Type-C charging port.



Figure 3: The RT-860 placed on its dedicated desktop charging dock.

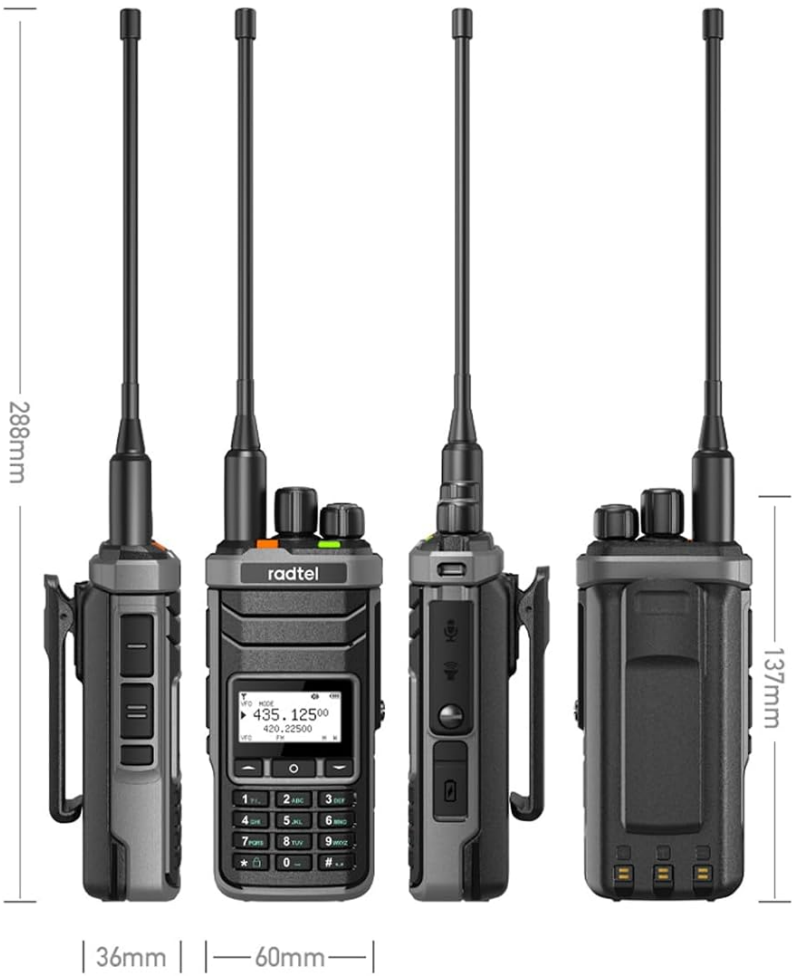
2. Antenna Attachment

The RT-860 comes with a dual-band antenna and supports additional SW/MW antennas for enhanced reception.

1. Screw the provided dual-band antenna clockwise into the antenna connector on top of the radio until it is finger-tight. Do not overtighten.
2. For shortwave (SW) and medium wave (MW) reception, attach the specialized SW/MW antennas to the dedicated port.



Figure 4: The top of the RT-860 highlighting the antenna connection point.



PARAMETER DETAILS

Model No.	RT-860
Frequency Range	FM:64-108MHz (RX ONLY)
	SW 2.3-26.1MHz (RX ONLY)
	MW:520-1710KHz (RX ONLY)
	LW:153-279KHz (RX ONLY)
	RX 18-520MHz(AM OR FM,Cover CB Band)
	TX 136-174MHz 400-480MHz
Channel Capacity	1024 Channel Capacity+2 VFO CH
Channel Spacing	25KHz/12.5KHz
Working Voltage	7.4V DC
Battery Capacity	2000MAH
Output Power	≤5W
Charging Mode	TYPE-C Cable Charging/Desk-top Charging(Optional)
Dimension	137*60*36mm (without Antenna)
Weight	About 255g (With Antenna)
Accessories List	Radio/Battery/Belt Clip/Charger/User Manual/Certificate

Figure 5: The RT-860 featuring two distinct antenna ports for versatile connectivity.

3. Powering On/Off

Rotate the power/volume knob clockwise to turn on the radio. Continue rotating to adjust the volume. Rotate counter-clockwise until a click is heard to turn off the radio.

Operating Instructions

Modes of Operation (VFO, Channel, Zone)

The RT-860 supports multiple operating modes for flexible use:

- **VFO Mode:** Allows direct frequency input and tuning. Ideal for scanning and exploring new frequencies.
- **Channel Mode:** Accesses pre-programmed channels. The radio supports up to 1024 channels.
- **Zone Mode:** Organizes channels into logical groups (zones) for easier navigation.

To switch between Channel, VFO, and Zone modes, refer to the video below for a visual guide.

▶ **Watch video online**

How to switchchannel,VFO,zone.

Video 1: Demonstrates how to switch between Channel, VFO, and Zone modes on the Radtel RT-860.

Frequency Tuning and Input

In VFO mode, use the keypad to directly input frequencies or the up/down arrow keys to tune. The radio supports a wide range of frequencies for reception and transmission.



Figure 6: The RT-860 display showing various frequency inputs and modes.

Advanced Features

- **Spectrum Activation:** The RT-860 features a spectrum display to visualize signal activity.

  ▶ **Watch video online**
  How to activatespectrum.

  Video 2: Guide on how to activate the spectrum display on the RT-860.

- **Channel Name Editing:** Customize channel names for easy identification.

  ▶ **Watch video online**
  How to edit achannel name.

  Video 3: Instructions for editing a channel name on your radio.

- **Frequency Copying:** Quickly copy frequencies for programming or temporary use.

  ▶ **Watch video online**
  How to copy a frequency.

  Video 4: How to copy a frequency on the Radtel RT-860.

- **Repeater Frequency Setup:** Expedite the setup of repeater frequencies.

  ▶ **Watch video online**
  How to fastlyset up repeaterfrequency

  Video 5: Quick guide to setting up repeater frequencies.

- **Shortwave Mode and SSB Modulation:** Utilize the radio's capabilities for shortwave listening and Single Sideband (SSB) modulation.

  ▶ **Watch video online**
  How to switchshort wavemode and SSBmodulation.

  Video 6: How to switch to shortwave mode and enable SSB modulation.

- **NOAA Weather Channels:** Access 11 NOAA weather channels for real-time weather alerts.
- **VOX Function:** Voice-activated transmission for hands-free operation.
- **Dual Standby:** Monitor two frequencies simultaneously.

Maintenance

Battery Care

- To maximize battery life, avoid overcharging or completely draining the battery.
- Store the battery in a cool, dry place when not in use for extended periods.
- If the radio will not be used for a long time, remove the battery.

Cleaning

- Clean the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all ports and connectors are free of dust and debris.

Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Low or no battery charge; improperly installed battery.	Ensure battery is fully charged and correctly installed.

Problem	Possible Cause	Solution
Poor reception or transmission.	Antenna not properly connected; incorrect frequency/channel; environmental interference.	Check antenna connection. Verify frequency and mode settings. Move to an area with less interference.
Display issues (e.g., low contrast).	Display settings adjusted incorrectly.	Navigate to display settings in the menu and adjust contrast/brightness.
Difficulty programming channels.	Incorrect menu navigation; software/firmware issues.	Refer to the "Operating Instructions" section or consult online resources/support for detailed programming steps. Ensure firmware is up to date.

Technical Specifications

Feature	Detail
Model No.	RT-860
Frequency Range (TX/RX)	144-148MHz / 420-450MHz
Frequency Range (RX Only)	FM: 64-108MHz, SW: 2.3-26.1MHz, MW: 520-1710KHz, LW: 153-279KHz, CB: 27MHz, Air-Band
Channel Capacity	1024 Channels
Working Voltage	7.4V DC
Battery Capacity	2000mAh Li-ion
Output Power	≤5W
Charging Mode	Type-C Cable Charging / Desktop Charger
Dimensions (Radio Body)	1.18"D x 2.36"W x 4.72"H
Weight (with antenna)	About 255g (0.56 lbs)
Water Resistance Level	Not Water Resistant
Material	Metal (for enhanced durability)

Warranty and Support

The Radtel RT-860 comes with a **1-Year Warranty** from the manufacturer, Xiamen Radtel Electronics Co.,Ltd. This warranty covers defects in materials and workmanship under normal use.

For technical support, troubleshooting assistance, or warranty claims, please contact Radtel Direct, the seller, or refer to the official Radtel website for contact information. Keep your purchase receipt as proof of purchase for warranty services.

For additional resources and community support, consider exploring online forums and video tutorials related to the Radtel RT-860 model.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question