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> Radtel RT-910B 5W Multi-Band Ham Radio Handheld Walkie Talkie, 6 Meter Amateur Radio with 960 Channels, AM/FM Two-Way Radio, Type-C Charging, Spectrum Scan (Bluetooth Version) User Manual

radtel RT-910B

Radtel RT-910B Multi-Band Ham Radio User Manual

Model: RT-910B

INTRODUCTION

The Radtel RT-910B is a versatile 5W multi-band handheld radio designed for amateur radio enthusiasts. It supports UHF, VHF, AM, and FM frequencies, offering extensive communication capabilities. Key features include 960 programmable channels, Type-C charging, spectrum scanning, and a clear color display. This manual provides detailed instructions for setting up, operating, and maintaining your RT-910B radio.





Figure 1: Radtel RT-910B Multi-Band Ham Radio

WHAT'S IN THE BOX

Upon opening your Radtel RT-910B package, please ensure all the following items are present:

- 1x RT-910 Main unit
- 1x 2200mAh Li-ion Battery
- 1x Dual band antenna
- 1x Belt Clip
- 1x Type C charging Cable
- 1x Power supply with USB port
- 1x English User Manual

SETUP

Battery Installation

To install the battery, align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks securely into place. Ensure the battery is fully seated to maintain proper contact.



The image shows a black Radtel RT-910B walkie-talkie. The main screen displays 'VOX DW 8.2', 'ZONE01 H', '435.600 00', 'Channel Name 006', and '145.450 00 VFO'. The keypad includes buttons for VFO/MR, A/B, OK, EXIT, and a numeric keypad with functions like SCAN, MR, STEP, PWR, SQL, DW, TONE, DUP, SHIFT, DTMF, and FM.

RT-910B



The inset screen shows a frequency of 433.30000 FM, a signal strength of -104dBm, and a frequency range from 433.12500 to 434.72500.

AM/FM RX
5W Power
960 Channel

50-59Mhz TX/RX
65-108Mhz RX
108-136Mhz AM RX
136-260Mhz TX/RX
260-299Mhz RX
300-520Mhz TX/RX



AM



Frequency Copy



960 Channel

Figure 2: Battery compartment and battery for Radtel RT-910B

Antenna Attachment

Carefully screw the dual-band antenna onto the antenna connector at the top of the radio. Turn clockwise until it is finger-tight. Do not overtighten.

Charging the Radio

The RT-910B supports convenient Type-C charging. Connect the provided Type-C charging cable to the radio's Type-C port and the other end to a USB power source (e.g., wall adapter, power bank, PC USB port). The charging indicator on the radio will show the charging status.

USB Type-C Charging /Programming



Higher charging efficiency
Support reverse insertion



USB wall adapter



Vehicle charging



Power bank



PC charging

Figure 3: USB Type-C Charging and Programming options

Firmware Update

To update the firmware of your RT-910B radio, follow the steps outlined in the video below. This process typically involves connecting the radio to a computer using a programming cable and using specific software.

Video 1: How to update the firmware of the Radtel RT-910B. This video demonstrates the step-by-step process for updating the radio's firmware using a programming cable and computer software.

OPERATING INSTRUCTIONS

Power On/Off and Volume

To power on the radio, rotate the top knob clockwise. Continue rotating to adjust the volume. To power off, rotate the knob counter-clockwise until it clicks.

Channel Grouping & One-Key Copy

The RT-910B allows for quick organization of presets and synchronization of settings across multiple units using the one-key copy function. Refer to the manual's specific section for detailed steps on grouping channels and utilizing the one-key copy feature.



Figure 4: Demonstrates the One-Click Copy Frequency function for quick search, match, and connect operations between two or more interphones.

VOX Hands-Free Operation

The Voice-Operated Exchange (VOX) function enables voice-activated transmission, allowing you to communicate without pressing the Push-To-Talk (PTT) button. This is particularly useful in situations where hands-free operation is required, such as driving or operating machinery. Activate VOX through the radio's menu settings.

VOX Function

Free your hands without holding down the PTT key Suitable for driving, operating machines, etc



Figure 5: Illustration of the VOX function, freeing your hands for activities like driving or operating machines.

Frequency Bands and Power Settings

The RT-910B operates across multiple frequency bands, including 144-148MHz and 420-450MHz for transmit/receive, and broader receive ranges for 50-59MHz, 65-108MHz (FM broadcast), 108-136MHz (AM aviation), 136-260MHz, 260-299MHz, and 300-520MHz. It offers switchable high, medium, and low power output settings up to 5W to optimize communication range and battery life.



High/Medium /Low Power Switchable



5W

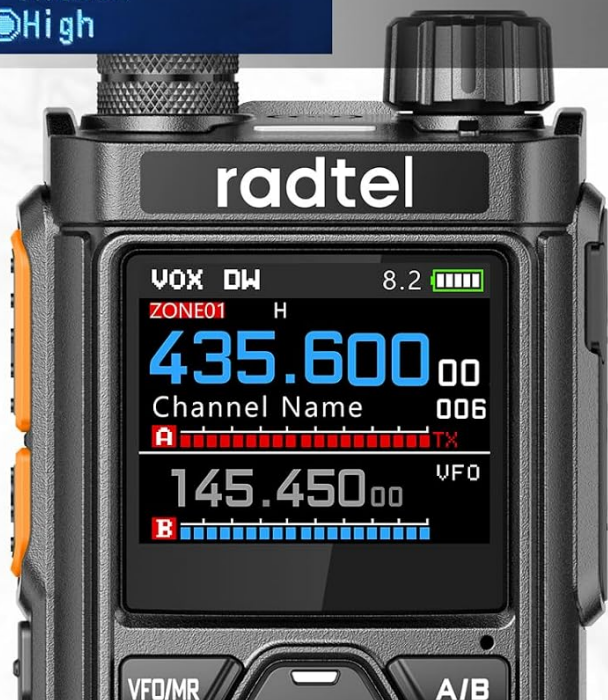


Figure 6: Demonstrates the High/Medium/Low Power Switchable feature and typical communication ranges in different environments.

960 Programmable Channels

The radio supports 960 programmable channels, organized into 64 independent zones with 15 independent channels each. This allows for extensive customization and organization of your communication frequencies for various applications.

960 Programmable Channels

64 independent zones × 15 independent channels



Shopping mall



Hotel Management



Workshop



Construction site



Office Building Security



Radio amateur

Figure 7: Highlights the 960 programmable channels and their applicability in various settings like shopping malls, hotels, workshops, construction sites, office buildings, and for radio amateurs.

Spectrum Scan

The spectrum scan feature allows the radio to automatically scan a range of frequencies to detect active signals. This is useful for finding clear channels or monitoring activity within a specific band. Consult the radio's menu for instructions on initiating and customizing spectrum scans.

NOAA Weather Alerts

The RT-910B can receive NOAA weather alerts, providing timely information on severe weather conditions. Enable this feature in the radio's settings to stay informed about local weather advisories.

Channel Naming

You can assign custom names to each saved channel for easier identification. Use the '#' key to switch input methods (e.g., letters, numbers, symbols) when entering channel names.



Figure 8: Explains the Channel Naming feature, allowing custom names for saved channels using the '#' key for input methods.

Frequency Step

This setting determines how much the frequency increases or decreases when using the UP/DOWN keys in VFO mode or during scanning. Adjust this setting in the radio's menu to suit your scanning or tuning preferences.



Figure 9: Illustrates the Frequency Step setting, which controls frequency increments/decrements during VFO mode or scanning.

Bluetooth Connectivity

The Bluetooth version of the RT-910B allows for wireless connectivity with compatible devices. Refer to the radio's Bluetooth menu for pairing instructions and available functions.

Video 2: RT-910/RT-910B Ham Radio overview. This video provides a general demonstration of the radio's features and functions, including its multi-band capabilities and user interface.

MAINTENANCE

To ensure the longevity and optimal performance of your Radtel RT-910B, regular maintenance is recommended:

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Avoid using 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 to prolong its lifespan.

- **Storage:** If storing the radio for an extended period, remove the battery and store both components separately in a dry environment.
- **Antenna:** Ensure the antenna connection remains clean and secure.

TROUBLESHOOTING

This section addresses common issues you might encounter with your RT-910B radio. If the problem persists, please contact customer support.

Problem	Possible Cause	Solution
Radio does not power on	Low or dead battery; Incorrect battery installation	Charge the battery; Reinstall the battery correctly
Poor reception or transmission	Antenna not properly attached; Obstructions; Out of range; Low power setting	Check antenna connection; Move to an open area; Ensure within range; Increase power setting
No audio from speaker	Volume too low; Headset connected; Speaker damaged	Increase volume; Disconnect headset; Contact support for repair
Cannot change frequency/channel	Keypad locked; In memory mode	Unlock keypad; Switch to VFO mode

SPECIFICATIONS

Feature	Detail
Model Number	RT-910B
Item Weight	2.2 pounds
Product Dimensions	1.57 x 2 x 10.62 inches
Batteries	1 9V battery required (included)
Number of Channels	1024
Special Features	Type-C Charging, AM/FM Reception, Spectrum Scan, Bluetooth
Frequency Range	144-148Mhz / 420-450Mhz (TX/RX), 50-59Mhz (RX), 65-108Mhz (FM RX), 108-136Mhz (AM RX), 136-260Mhz (TX/RX), 260-299Mhz (RX), 300-520Mhz (TX/RX)
Talking Range Maximum	6 Kilometer

Feature	Detail
Tuner Technology	UHF/VHF
Voltage	7.4 Volts
Water Resistance Level	Not Water Resistant
Manufacturer	Xiamen Radtel Electronics Co.,Ltd
First Available Date	June 17, 2025

WARRANTY AND SUPPORT

Warranty Information

The Radtel RT-910B 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.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Radtel Direct customer support. You can find contact information on the official Radtel website or through your purchase platform.

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