

radtel RT-4D

Radtel RT-4D DMR Radio

USER MANUAL

1. Introduction

Thank you for choosing the Radtel RT-4D DMR Radio. This dual-band, dual-mode walkie-talkie is designed for reliable and versatile communication, supporting both analog and digital modes with 1024 channels. This manual provides essential information for the proper setup, operation, and maintenance of your device to ensure optimal performance and longevity.

Please read this manual thoroughly before using the radio and keep it for future reference.

2. Product Overview

The Radtel RT-4D is a robust communication device featuring a clear display, intuitive controls, and a durable design. It comes bundled with a speaker microphone for enhanced usability.



Figure 2.1: Radtel RT-4D DMR Radio with included Speaker Microphone. This image displays the main radio unit alongside the speaker mic, highlighting their compact and functional design.



Figure 2.2: Close-up view of the Radtel Speaker Microphone. This accessory features a PTT button, speaker, and microphone, designed for convenient hands-free communication.

The radio features a full keypad and a clear LCD display for easy navigation and status monitoring. The speaker mic provides a convenient way to communicate without needing to hold the radio directly to your ear.

3. Package Contents

Please verify that all items are present in your package:

- Radtel RT-4D DMR Radio Unit
- Speaker Microphone
- Battery Pack
- Antenna
- Belt Clip
- Desktop Charger with AC Adapter
- User Manual (this document)

Note: If any items are missing or damaged, please contact your vendor immediately.

4. Setup

4.1 Battery Installation and Charging

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery pack upwards until it clicks into place.
3. To charge, place the radio (with battery installed) into the desktop charger. Ensure the charging indicator light illuminates.
4. A full charge typically takes 3-4 hours. The indicator light will change color when charging is complete.

4.2 Antenna Attachment

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

4.3 Speaker Microphone Connection

1. Insert the 2-pin connector of the speaker microphone into the accessory jack on the side of the radio.
2. Ensure a secure connection.

5. Operating Instructions

5.1 Power On/Off and Volume Control

- To power on, rotate the **Power/Volume Knob** clockwise until you hear a click.
- Continue rotating to adjust the volume.
- To power off, rotate the knob counter-clockwise until it clicks.

5.2 Channel Selection

- Use the **Up/Down Arrow** keys on the keypad to navigate through programmed channels.
- Alternatively, enter the channel number directly using the numeric keypad.

5.3 Making a Call

- Select the desired channel or contact.
- Press and hold the **Push-to-Talk (PTT)** button on the side of the radio or on the speaker microphone.
- Speak clearly into the microphone.
- Release the PTT button to listen for a response.

SINGLE/GROUP/ALL CALL MULTIPLE CALLING CHOICES



SINGLE CALL

Add Friend, Call Alone



GROUP CALL

Create Calling Group for All Member



ALL CALL

Up to 500 Contacts

Single call group call group call communication function can be set according to their own needs



Figure 5.1: Illustration of Single, Group, and All Call options. The Radtel RT-4D supports various calling modes, allowing users to communicate with individual contacts, predefined groups, or all contacts within the system.

5.4 Digital vs. Analog Mode

The RT-4D supports both digital (DMR) and analog communication. The radio will automatically detect the signal type on a given channel if configured correctly. Ensure your radio is set to the appropriate mode for the network you are trying to access.



DMR+ANALOG DUAL MODE RADIO

DMR Digital + Analog Handheld Radio

RT-4D

Figure 5.2: Radtel RT-4D operating in DMR Digital + Analog Dual Mode. This image highlights the radio's capability to seamlessly switch between digital and analog communication protocols.

6. Features

- **Dual Band & Dual Mode:** Supports both UHF/VHF frequencies and operates in both analog and digital (DMR) modes.
- **1024 Channels:** Ample capacity for various communication needs.
- **Dual Time Slot (Tier 1 & Tier 2):** Enables efficient communication by allowing two conversations on a single frequency.

2 TIME-SLOT DIGITAL/ANALOG SIGNAL COMPATIBLE

High/Low Power Switching
Strong Penetration



Figure 6.1: Radtel RT-4D demonstrating 2 Time-Slot Digital/Analog Signal Compatibility. This feature enhances channel efficiency and signal penetration.

- **Wide Frequency Range:**

- Analog: 108-136 MHz (aviation AM reception), 136-520 MHz RX
- Digital VHF: 136-174 MHz / UHF: 400-470 MHz RX

- **Speaker Microphone:** Included accessory with a 360° rotatable clip and 19.29-inch cable for flexible use. Provides clear and loud voice transmission.



Figure 6.2: A hand holding the Radtel Speaker Microphone, illustrating its ergonomic design and portability for ease of use.

- **One-Click Detecting Remote Sub-Tone Decoding:** Facilitates quick matching and decoding of signals.

ONE-CLICK DETECTING REMOTE SUB-TONE DECODING

Quick Matching,
Quick Decoding



Figure 6.3: Radtel RT-4D demonstrating One-Click Detecting Remote Sub-Tone Decoding. This feature allows for quick signal matching and decoding.

7. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's surface. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** To prolong battery life, avoid overcharging and fully discharging the battery regularly. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Storage:** Store the radio in a dry environment, away from direct sunlight and extreme temperatures.
- **Antenna:** Do not bend or twist the antenna excessively, as this can damage the connector.

8. Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is securely installed. Charge the battery fully.
No sound or low volume.	Volume is too low; speaker mic not connected properly; channel is inactive.	Increase volume. Reconnect speaker mic. Verify channel activity.
Cannot transmit or receive.	Incorrect frequency/channel; antenna not attached; radio in wrong mode (digital/analog).	Verify frequency/channel settings. Attach antenna securely. Ensure correct mode is selected.
Poor audio quality.	Weak signal; interference; damaged antenna.	Move to an area with better signal. Check for sources of interference. Inspect antenna for damage.

9. Specifications

Feature	Detail
Brand	radtel
Model	RT-4D
Number of Channels	1024
Frequency Range (Analog RX)	108-136 MHz (Aviation AM), 136-520 MHz
Frequency Range (Digital RX)	VHF: 136-174 MHz, UHF: 400-470 MHz
Tuner Technology	VHF, UHF
Connectivity Protocol	DMR
Special Feature	Dual Time Slot, DMR Radio
Included Components	Speaker Mic (and main radio unit, battery, antenna, charger)
Color	Black
Water Resistance Level	Not Water Resistant

10. Warranty and Support

Radtel products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Radtel website.

For further assistance, please contact Radtel customer support.

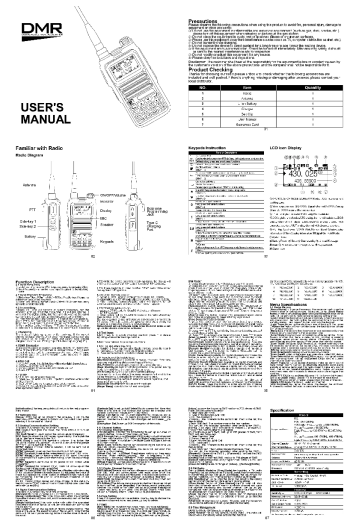
	radtel RT-910/RT-910B Zweiwegradio Bedienungsanleitung Umfassende Bedienungsanleitung für das radtel RT-910/RT-910B Zweiwegradio. Enthält Informationen zu Funktionen, Tastenbelegung, Menüführung, Sicherheitshinweisen und technischen Spezifikationen.
	Manual de Usuario Radio Bidireccional Radtel RT-910/RT-910B Guía completa del usuario para la radio bidireccional Radtel RT-910 y RT-910B. Aprenda sobre sus funciones, operaciones, especificaciones técnicas y seguridad.
	Manuale d'Uso Ricetrasmittitore Radtel RT-860 Manuale d'uso completo per il ricetrasmittitore Radtel RT-860, con istruzioni dettagliate su precauzioni, funzioni della tastiera, impostazioni, gestione dei canali e specifiche tecniche.
	Radtel RT-860 User Manual: Two-Way Radio Operation Guide Comprehensive user manual for the Radtel RT-860 two-way radio, covering precautions, radio components, keypad functions, LCD display details, and extensive menu settings for basic operations, key definitions, analog settings, channel management, zone configuration, radio functions, time management, and detailed product specifications. This guide provides essential information for operating and configuring the RT-860.
	Radtel RT-910/RT-910B Dual Band Two-Way Radio User Manual Comprehensive user manual for the Radtel RT-910 and RT-910B dual band two-way radios, detailing features, operations, button functions, display indicators, menu system, technical specifications, and safety information.
	Radtel RT-4D User Manual Comprehensive user manual for the Radtel RT-4D digital mobile radio, covering button functions, keypad operations, LCD display details, and system settings for optimal use.



[Radtel RT-4D DMR Digital Mobile Radio User Manual](#)

Comprehensive user manual for the Radtel RT-4D DMR digital mobile radio, covering features, operation, settings, and specifications.

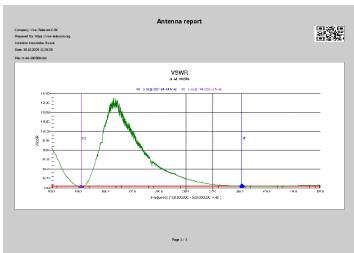
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[Antenna VSWR Performance Report - Viva-Telecom rt-4d-100500](#)

Detailed VSWR performance report for the rt-4d-100500 antenna, prepared by Viva-Telecom CJSC, showcasing measurements across a frequency range of 100 MHz to 500 MHz, including key VSWR values at specific frequencies for optimal antenna analysis.

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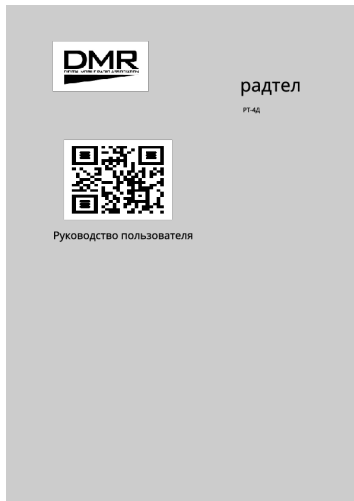
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