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BAOFENG UV-5RA

Baofeng UV5RA Ham Two Way Radio Instruction Manual

Model: UV-5RA | Brand: BAOFENG

Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your Baofeng UV5RA Ham Two Way Radio. Please read this manual thoroughly before using the device to ensure safe and optimal performance.

Product Overview





Figure 1: Baofeng UV5RA Ham Two Way Radio, front view. This image displays the radio's dual-band display, keypad, and various function buttons.

The Baofeng UV5RA is a compact, dual-band handheld transceiver that operates on both VHF (136-174 MHz) and UHF (400-480 MHz) frequencies. It is designed for amateur radio enthusiasts and professionals requiring reliable two-way communication. Key features include a large LCD display, a full keypad for direct frequency input, and multiple scanning functions.

Package Contents

Upon opening the package, please verify that all components are present and in good condition:

- Baofeng UV5RA Transceiver Unit
- 1800mAh Li-ion Battery Pack
- Antenna
- Desktop Charger with AC Adapter

- Belt Clip
- Hand Strap
- User Manual (this document)

Setup

1. Battery Installation and Charging

The UV5RA comes with an 1800mAh Li-ion battery. Before first use, ensure the battery is fully charged.

1. To install the battery, align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place.
2. To charge, connect the AC adapter to the desktop charger, then plug the adapter into a standard wall outlet. Place the radio with the battery installed into the charging cradle. The charger indicator light will turn red while charging and green when fully charged.



Figure 2: Left: Baofeng UV5RA Li-ion Battery (Model BL-5L). Right: Optional car charger for the Baofeng UV5RA, providing charging flexibility on the go.

2. Antenna Attachment

Screw the antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

Operating Instructions

1. Power On/Off and Volume Control

Rotate the volume knob (top-left knob) clockwise to turn the radio on and increase volume. Rotate counter-clockwise to decrease volume and turn off.

2. Frequency and Channel Mode

The UV5RA operates in two main modes: Frequency Mode (VFO) and Channel Mode (MR). Press the**VFO**/**MR** button to switch between these modes.

- **Frequency Mode (VFO):** Allows direct input of frequencies using the keypad. Ideal for scanning or temporary frequency use.
- **Channel Mode (MR):** Accesses pre-programmed memory channels. Useful for frequently used frequencies.

3. Transmitting and Receiving

To transmit, press and hold the **PTT (Push-To-Talk)** button on the left side of the radio. Speak clearly into the microphone. Release the PTT button to receive.

4. Keypad Functions

Keypad Function Overview

Button	Function (Short Press)	Function (Long Press)
MENU	Enter Menu / Confirm Selection	N/A
EXIT	Exit Menu / Cancel Operation	N/A
A/B	Switch A/B VFO/Channel	N/A
BAND	Switch Frequency Band (VHF/UHF)	N/A
V/M	Switch VFO/MR Mode	N/A
*SCAN	Reverse Frequency / Scan	Activate Scan
#LOCK	Keypad Lock	N/A

For detailed menu functions and programming, refer to the full user manual available online or through the manufacturer's support channels.

5. Official Product Video

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Video 1: "Baofeng MIRKIT UV-5RA 2021 5watt". This video provides a visual overview of the Baofeng UV-5RA radio, highlighting its features and normal power operation. It showcases the radio's design, battery capacity, frequency capabilities (VHF/UHF), and mentions special firmware and warranty information from Mirkit.

Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** To prolong battery life, avoid overcharging and fully discharging the battery. Store the radio and battery in a cool, dry place when not in use for extended periods.
- **Antenna:** Ensure the antenna is securely attached. Avoid bending or stressing the antenna, as this can damage the connector.
- **Storage:** When storing the radio for long periods, remove the battery.

Troubleshooting

Common Issues and Solutions

Problem	Possible Cause	Solution
Radio does not power on.	Low or dead battery; improperly installed battery.	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive.	Incorrect frequency/channel; antenna not connected; low battery.	Verify frequency/channel; check antenna connection; charge battery.

Problem	Possible Cause	Solution
Poor audio quality.	Low volume; weak signal; damaged speaker/microphone.	Adjust volume; move to an area with better signal; contact support if hardware issue.
Keypad is unresponsive.	Keypad lock is active.	Press and hold the #LOCK button to unlock the keypad.

If the issue persists after attempting these solutions, please contact customer support.

Specifications

Model: UV-5RA

Brand: BAOFENG

Frequency Range: VHF 136-174 MHz / UHF 400-480 MHz

Number of Channels: 105

Battery: 7.4 Volts, 1800mAh Li-ion

Dimensions (H x W x D): Approximately 8 x 4.25 x 3.75 inches (including antenna)

Weight: Approximately 14.9 ounces (with battery and antenna)

Talking Range (Maximum): Up to 8 Kilometers (terrain and conditions dependent)

Tuner Technology: UHF, VHF

Manufacturer: Fujian Baofeng Electronics Co., Ltd

Warranty and Support

For warranty information and technical support, please refer to the official BAOFENG website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.
For additional resources and community support, consider visiting amateur radio forums or online groups dedicated to Baofeng radios.

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