BAOFENG UV 5RE

BAOFENG UV5RE Two Way Radio User Manual

Model: UV 5RE

Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your BAOFENG UV5RE Two Way Radio. Designed for reliable communication, this dual-band radio features an 8-watt output and a high-capacity 2100mAh Li-ion battery, ensuring extended use and strong signal performance. Please read this manual thoroughly to ensure proper and safe use of your device.

Package Contents

Upon opening the package, please verify that all the following items are included:

- BAOFENG UV-5RE Two Way Radio (New version)
- 2100mAh Li-ion Battery
- V-85 Dual Band Antenna
- CH-5 Charger
- CH-5 110V Adapter
- Earpiece Kit
- Wrist Strap
- Belt Clip
- User Manual



Figure 1: Included components of the BAOFENG UV5RE radio kit.

Product Overview

Familiarize yourself with the various parts and controls of your BAOFENG UV5RE radio:



Figure 2: Front and side view of the BAOFENG UV5RE radio with key components labeled.

- **Antenna:** For transmitting and receiving radio signals.
- **LCD Display:** Shows frequency, channel, battery status, and other operational information.
- **SK-side key1/CALL:** Programmable side key, often used for Call or Alarm mode.
- **VFO/MR Button:** Toggles between Frequency Mode (VFO) and Channel Mode (MR).
- **PTT Key (Push-to-Talk):** Press and hold to transmit, release to receive.
- **SK-side key2/MONI:** Programmable side key, often used for Monitor function or Flashlight.
- **A/B Key:** Switches between the upper and lower frequency display lines.
- **Knob (ON/OFF volume):** Rotates to turn the radio on/off and adjust volume.
- **Flashlight:** Built-in LED light for illumination.
- **Speaker:** Outputs received audio.
- **Microphone:** Captures your voice for transmission.
- **Battery:** 2100mAh Li-ion battery for power.

Setup

1. Battery Installation

1. Align the 2100mAh Li-ion battery with the battery compartment on the back of the radio.
2. Slide the battery upwards until it clicks securely into place.
3. To remove, press the battery release latch (if present, usually at the bottom of the battery) and slide the battery downwards.

2. Antenna Attachment

1. Screw the V-85 Dual Band Antenna clockwise onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

3. Charging the Battery

Before first use, fully charge the battery. The 2100mAh battery provides extended operating time.

1. Connect the CH-5 110V Adapter to the CH-5 Charger base.
2. Plug the adapter into a standard wall outlet.
3. Place the radio with the battery installed, or just the battery, into the charging cradle.
4. The charger's LED indicator will typically show red during charging and turn green when charging is complete.



Figure 3: BAOFENG UV5RE radio placed in its charging dock.



Figure 4: Illustration of the 2100mAh battery's long standby time.

Operating Instructions

1. Power On/Off and Volume Adjustment

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

2. Frequency Range and Dual Band Operation

The BAOFENG UV5RE operates on dual bands: 144-148MHz (VHF) and 420-450MHz (UHF). The radio also receives FM radio (65-108MHz).

- Press the **A**/**B** key to switch between the upper (A) and lower (B) frequency display lines. This allows monitoring two different frequencies simultaneously.
- Press the **VFO**/**MR** button to toggle between Frequency Mode (VFO) for direct frequency input and Channel Mode (MR) for selecting pre-programmed channels.



Figure 5: Signal strength and frequency performance with the 5 dB antenna.

3. Transmitting (PTT Key)

To transmit, press and hold the **PTT** (Push-to-Talk) key located on the left side of the radio. Speak clearly into the microphone. Release the PTT key to stop transmitting and return to receive mode.

4. VOX (Voice Operated Exchange)

The radio supports VOX for hands-free operation. When VOX is enabled, the radio will automatically transmit when it detects your voice. Refer to the detailed user guide for specific steps to activate and adjust VOX sensitivity.

5. Flashlight and Alarm Mode

- The **SK-side key2**/**MONI** can be configured to activate the built-in LED flashlight.
- The **SK-side key1**/**CALL** can be configured to activate an alarm mode for emergency situations.



Figure 6: Key features of the BAOFENG UV5RE radio.

6. Programming and Advanced Features

The BAOFENG UV5RE can be programmed using software like CHIRP, allowing for customization of channels, frequencies, and other advanced settings. A programming cable (sold separately) is required for this process. Refer to online resources and the detailed user guide for programming instructions.

Maintenance

1. Battery Care

- To maximize battery life, fully charge the 2100mAh Li-ion battery before initial use.
- Avoid overcharging or completely draining the battery.
- Store the battery in a cool, dry place when not in use for extended periods.

2. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use.

3. Water Resistance

The BAOFENG UV5RE is designed to be water-resistant, but it is**not waterproof**. Avoid exposing the radio to heavy rain, submersion in water, or extreme moisture to prevent damage.

Troubleshooting

If you encounter issues with your BAOFENG UV5RE radio, consider the following common solutions:

Problem	Possible Cause / Solution
Radio does not power on.	Battery is not installed correctly or is depleted. Ensure battery is securely attached and fully charged.

Problem	Possible Cause / Solution
Cannot transmit or receive.	Check if the antenna is properly attached. Ensure you are on the correct frequency/channel. Verify that the PTT key is being pressed fully when transmitting. Check squelch level; it might be set too high.
Poor audio quality / Static.	Antenna may be loose or damaged. You may be out of range or experiencing interference. Adjust volume level.
Battery drains quickly.	Battery may not be fully charged. High power transmission settings consume more battery. Battery may be nearing the end of its lifespan.

For more detailed troubleshooting or issues not covered here, please refer to the complete user manual included with your product or contact BAOFENG customer support.

Specifications

Feature	Detail
Model Number	UV 5RE
Item Weight	1.04 pounds
Product Dimensions	4.8 x 2.4 x 1.6 inches
Battery Type	1 Lithium Ion (2100mAh, included)
Display Type	LCD
Color	Black
Number of Channels	128
Special Feature	8W Radio, 2100 mAh battery
Frequency Range	144-148MHz & 420-450MHz (TX)
Talking Range Maximum	3 Kilometer
Tuner Technology	UHF
Voltage	110 Volts
Water Resistance Level	Water-resistant

Warranty and Support

Your BAOFENG UV5RE Two Way Radio comes with a comprehensive warranty and dedicated support:

- **Warranty:** This product qualifies for a 5-year after-sales service warranty.
- **Support:** As an authorized Baofeng US distributor, our shop ensures that all Baofeng radios sold qualify for Baofeng's official warranty. For any inquiries, technical assistance, or warranty claims, please contact our customer service.

Usage Scenarios

The BAOFENG UV5RE is a versatile two-way radio suitable for a variety of applications:



Figure 7: The radio is ideal for outdoor activities like mountaineering.

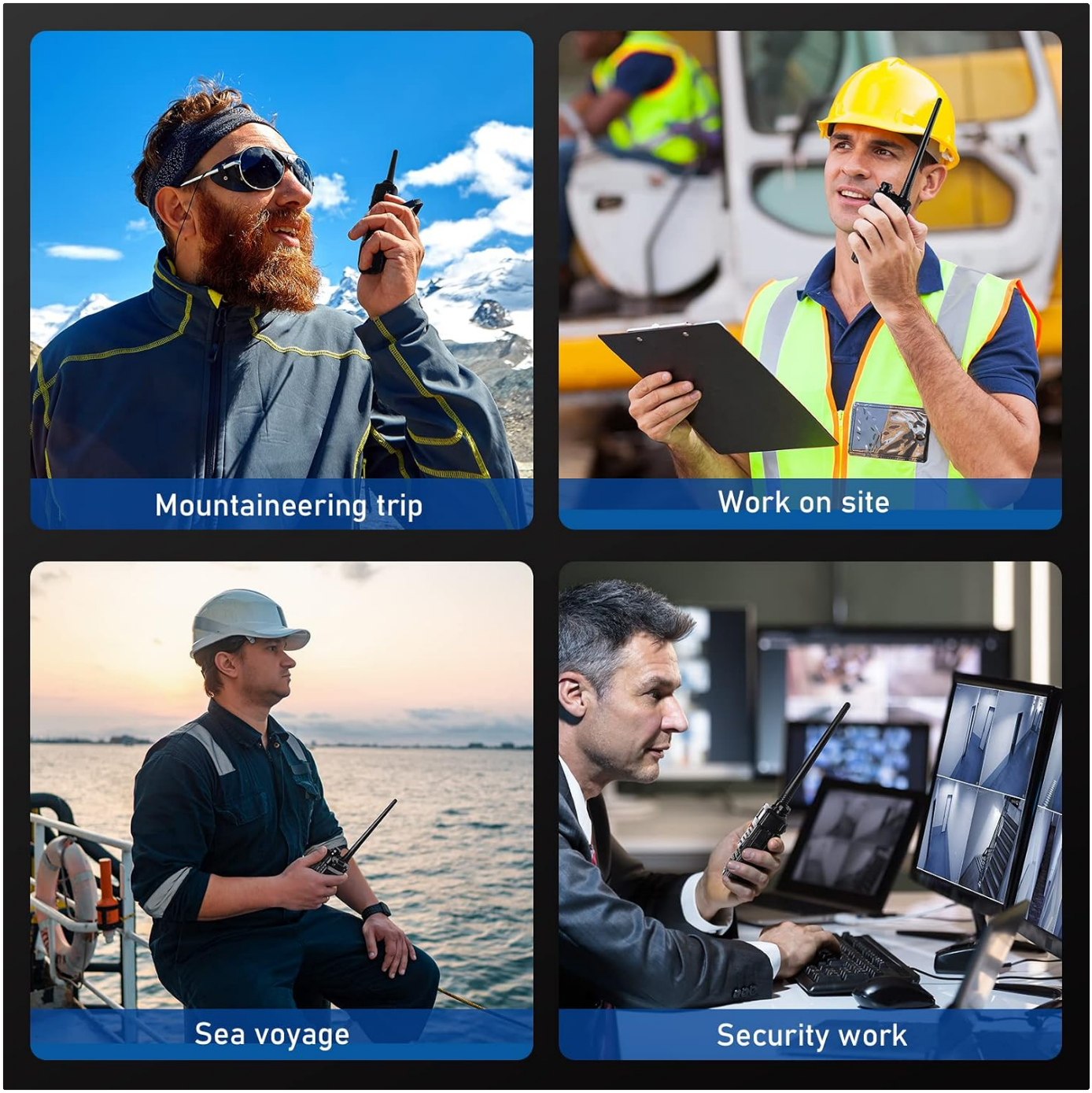


Figure 8: Diverse applications of the BAOFENG UV5RE, including outdoor adventures, construction, maritime use, and security.

- **Outdoor Activities:** Ideal for hiking, camping, mountaineering, and other outdoor adventures where reliable communication is essential.
- **Work Sites:** Facilitates communication for construction site management, event coordination, and other professional environments.
- **Maritime Use:** Suitable for sea voyages and boating for short-range communication.
- **Security Operations:** Provides clear and instant communication for security personnel.
- **Emergency Preparedness:** A valuable tool for personal and family communication during emergencies when traditional networks may be unavailable.

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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.

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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