BAOFENG UV-9R PRO

BAOFENG UV-9R PRO Dual Band Two-Way Radio Instruction Manual

Brand: BAOFENG | Model: UV-9R PRO

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1. Product Overview

The BAOFENG UV-9R PRO is a robust dual-band two-way radio designed for reliable communication in various environments. It features an IP67 waterproof and dustproof rating, ensuring durability in challenging conditions. This model is an upgraded version, offering enhanced battery capacity, flexible charging options, and improved button design for user convenience.

Key features include 8W high power output, 128 channels, a 2800mAh battery, LED display, flashlight, emergency alarm, and adjustable power levels (High/Mid/Low).



Image 1.1: Overview of the BAOFENG UV-9R PRO's main features, including 128 channels, 8W power, dual band capability, 2800mAh battery, LED display, flashlight, emergency alarm, 50 CTCSS/104 DCS codes, waterproof headset jack, and adjustable power.

2. What's in the Box

Upon unboxing your BAOFENG UV-9R PRO, please verify that all the following components are included:

- BAOFENG UV-9R PRO Two-Way Radio Unit
- Antenna
- Rechargeable Battery (2800mAh)
- Type-C Charger Cable
- Desktop Charger Cradle
- Power Adapter for Desktop Charger
- Belt Clip
- Lanyard
- Headset/Earpiece Accessories

- User's Manual (this document)



Image 2.1: The complete package contents of the BAOFENG UV-9R PRO, showing the radio, antenna, battery, Type-C charging cable, desktop charger, power adapter, belt clip, and lanyard.

3. Parts Identification

Familiarize yourself with the various parts of your BAOFENG UV-9R PRO radio:



Image 3.1: Labeled diagram of the BAOFENG UV-9R PRO, indicating the Antenna, Flashlight, Knob, LED Indicator, Speaker, Mic, Accessory Jack, LCD, Keypad, PTT (Push-to-Talk) button, and Key1/F and Key2/M buttons.

- **Antenna:** For transmitting and receiving radio signals.
- **Knob:** Power On/Off and Volume control.
- **LED Indicator:** Illuminates to indicate transmission (red) or reception (green).
- **Flashlight:** Built-in LED light for illumination.
- **Speaker:** Outputs received audio.
- **Mic:** Microphone for voice input during transmission.
- **Accessory Jack:** Port for connecting external audio accessories like headsets.
- **LCD:** Liquid Crystal Display showing frequency, channel, battery status, and other indicators.
- **Keypad:** Numeric and function buttons for input and control.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.
- **Key1/F & Key2/M Buttons:** Programmable function keys.

4. Setup and Initial Use

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 securely into place.
3. To charge, you can use the desktop charger or the Type-C USB cable directly into the battery.
4. For desktop charging, place the radio (with battery installed) into the charger cradle. Ensure the charging indicator light on the cradle illuminates.
5. For Type-C charging, connect the Type-C cable to the port on the battery pack and to a compatible USB power source.

4.2. Antenna Attachment

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

4.3. Powering On/Off

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

5. Operating the Radio

5.1. Basic Communication

- **Selecting a Channel/Frequency:** Use the keypad to directly input a frequency or navigate through programmed channels. The LCD will display the current frequency.
- **Transmitting:** Press and hold the PTT button on the side of the radio. Speak clearly into the microphone. The LED indicator will turn red. Release the PTT button to stop transmitting and return to receive mode.
- **Receiving:** When not transmitting, the radio is in receive mode. The LED indicator will turn green when a signal is received.

5.2. Adjusting Transmit Power

The UV-9R PRO supports High, Mid, and Low power output settings. Higher power provides greater range but consumes more battery. Lower power is suitable for short-range communication and conserves battery life.



Image 5.1: The LCD screen displaying the different transmit power settings: HIGH, MID, and LOW.

5.3. Special Features

- **Flashlight:** Activate the built-in LED flashlight for illumination in low-light conditions. Refer to the specific button assignment in your full user manual for activation.
- **Emergency Alarm:** In an emergency, the radio can emit an alarm tone. Consult the full manual for the button sequence to activate this feature.
- **Keypad Lock:** To prevent accidental key presses, the keypad can be locked.

5.4. Range Considerations

The effective communication range varies significantly based on environmental factors. The UV-9R PRO is designed for long-range communication, but obstructions will reduce this distance.



Image 5.2: Estimated communication ranges for the BAOFENG UV-9R PRO: Up to 4-5 miles in open areas, 3-4 miles in forests, and 2-3 miles in city environments. Actual distance depends on obstructions.

6. Maintenance and Care

To ensure the longevity and optimal performance of your BAOFENG UV-9R PRO, follow these maintenance guidelines:

- **Cleaning:** Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Avoid fully discharging the battery frequently. Charge the battery regularly, even if the radio is not in use, to maintain battery health. Store the radio and battery in a cool, dry place.
- **Waterproof Rating (IP67):** The UV-9R PRO is rated IP67, meaning it is protected from dust ingress and can withstand immersion in water up to 1 meter for 30 minutes. Ensure all port covers (e.g., accessory jack) are securely closed to maintain water resistance. Avoid intentional submersion or exposure to high-pressure water jets.



Image 6.1: The BAOFENG UV-9R PRO being splashed with water, illustrating its IP67 waterproof capability.

7. Troubleshooting

If you encounter issues with your radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery fully. Ensure the battery is securely attached.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, or PTT button issue.	Verify frequency/channel settings. Ensure antenna is securely attached. Check PTT button functionality.
Poor audio quality or low volume.	Volume too low, speaker/mic obstructed, or signal interference.	Adjust volume. Clear any obstructions from speaker/mic. Move to an area with less interference.

Problem	Possible Cause	Solution
Battery drains quickly.	High transmit power, frequent transmission, or aging battery.	Use lower transmit power when possible. Reduce transmission time. Consider replacing the battery if it's old.
Radio not charging.	Charger/cable faulty, or improper connection.	Check charger and cable for damage. Ensure proper connection to radio/battery and power source.

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

8. Technical Specifications

Detailed specifications for the BAOFENG UV-9R PRO:

Feature	Specification
Model Number	UV-9R PRO
Frequency Range	136-174 MHz (VHF), 400-470 MHz (UHF)
Number of Channels	128
Output Power	8W (High Power)
Battery Capacity	2800mAh
Voltage	3.7 Volts
Water Resistance Level	IP67 (Waterproof and Dustproof)
Talking Range Maximum	5 Miles (environment dependent)
Special Features	Emergency Alarm, Keypad Lock, Portable, Built-in Flashlight
Compatible Devices	Two-way radios (Dual Band), Headsets, Earpieces
Item Weight	1.32 pounds
Package Dimensions	7.24 x 5.98 x 3.98 inches



Image 8.1: A summary of the BAOFENG UV-9R PRO's accessories and key parameters, including model, frequency, power, battery, channel count, and color.

9. Warranty and Support

9.1. Warranty Information

This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact BAOFENG customer support through their official website or the contact information provided with your purchase documentation.

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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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