BAOFENG UV 9G

BAOFENG UV-9G GMRS Radio User Manual

IP67 Waterproof Two-Way Radio with NOAA Scanner and Repeater Compatibility

1. Introduction

Welcome to the instruction manual for your BAOFENG UV-9G GMRS Radio. This guide provides essential information for the safe and effective operation of your new two-way radio. The UV-9G is a robust, IP67 waterproof GMRS radio designed for reliable communication in various environments, featuring NOAA weather scanning, long-range capabilities, and repeater compatibility.
Please read this manual thoroughly before using the radio to ensure proper function and to maximize your communication experience.

2. Safety Information

To ensure safe operation and compliance with regulations, please observe the following guidelines:

- **GMRS License:** Operation of GMRS radios requires a valid FCC license. It is the user's responsibility to obtain and comply with all applicable FCC regulations. The FCC ID for this device is 2AJGM-P52UV.
- **Battery Safety:** Use only BAOFENG approved batteries and chargers. Do not disassemble, crush, puncture, short-circuit, or dispose of batteries in fire or water.
- **Water Exposure:** While the UV-9G is IP67 waterproof, ensure the battery compartment and accessory port covers are securely sealed before exposing the radio to water. Avoid submerging the radio in saltwater.
- **Antenna Care:** Do not touch the antenna during transmission. Do not operate the radio with a damaged antenna.
- **Hearing Protection:** Keep the volume at a comfortable level to avoid hearing damage, especially when using an earpiece.
- **Flammable Environments:** Do not operate the radio in environments with flammable gases or explosive materials.

3. Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- BAOFENG UV-9G GMRS Radio Unit
- Antenna
- Li-ion Battery Pack (1800mAh)
- Desktop Charger
- Power Adapter
- Belt Clip
- Hand Strap
- Programming Cable (328 Moto-Jack)
- User Manual (this document)



Image 3.1: Contents of the BAOFENG UV-9G package, including the radio, antenna, battery, charger, power adapter, belt clip, hand strap, and programming cable.

4. Product Overview

4.1 Radio Components



Image 4.1: Front view of the BAOFENG UV-9G radio, showcasing the display, keypad, and main controls. An earpiece and programming cable are also shown.

- **Antenna:** For transmitting and receiving signals.
- **Power/Volume Knob:** Rotate to turn the radio on/off and adjust volume.
- **PTT (Push-to-Talk) Button:** Press and hold to transmit, release to receive.

- **Side Keys:** Programmable function keys (e.g., flashlight, alarm).
- **Speaker/Microphone:** For audio output and input.
- **Keypad:** For channel selection, menu navigation, and function input.
- **LCD Display:** Shows channel, frequency, battery status, and other indicators.
- **Accessory Jack:** For connecting earpieces, speaker mics, or programming cables.
- **Flashlight:** Integrated LED light for illumination.

4.2 LCD Display Icons

The LCD display provides visual feedback on the radio's status. Common icons include:

- **Battery Indicator:** Shows remaining battery life.
- **Signal Strength:** Indicates the strength of the received signal.
- **TX/RX Indicator:** Shows when the radio is transmitting (TX) or receiving (RX).
- **Channel Number/Frequency:** Displays the current operating channel or frequency.
- **VOX:** Indicates Voice Operated Exchange function is active.
- **Keypad Lock:** Indicates the keypad is locked.

5. Battery Installation and Charging

5.1 Battery Installation

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 remove, press the release latch (usually at the bottom of the battery) and slide the battery downwards.

5.2 Charging the Battery

Before initial use, fully charge the battery. A full charge typically takes 4-5 hours.

1. Connect the power adapter to the desktop charger.
2. Plug the power adapter into an AC outlet.
3. Place the radio (with battery installed) or the battery pack alone into the charging slot.
4. The charger indicator light will typically show red during charging and turn green when fully charged.



Image 5.1: An optional six-way multi-unit charger for charging multiple BAOFENG UV-9G radios or batteries simultaneously.

6. Basic Operation

6.1 Power On/Off and Volume

1. **Power On:** Rotate the Power/Volume knob clockwise until you hear a click.
2. **Adjust Volume:** Continue rotating the knob clockwise to increase volume, counter-clockwise to decrease.
3. **Power Off:** Rotate the knob counter-clockwise until you hear a click.

6.2 Channel Selection

The UV-9G comes with 30 pre-programmed GMRS channels and 11 NOAA weather channels.

1. Use the **UP/DOWN arrow keys** on the keypad to navigate through channels.
2. Alternatively, you can directly input a channel number using the numeric keypad.

6.3 Transmitting and Receiving

1. **To Receive:** Ensure the radio is powered on and tuned to the desired channel. The radio will automatically

receive signals on that channel.

2. **To Transmit:** Press and hold the **PTT button** on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting and return to receive mode.



Image 6.1: The BAOFENG UV-9G radio with its antenna, illustrating its capability for longer distance communication.

7. Advanced Features

7.1 NOAA Weather Scan

The UV-9G includes 11 NOAA channels for weather scanning and receiving. This feature allows you to receive instant weather reports and alerts, keeping you informed of changing conditions.

1. Access the NOAA channels by navigating through the channel list or using a dedicated function if programmed.
2. The radio can stand by 24/7 to receive weather reports, consuming minimal battery power.



Image 7.1: The BAOFENG UV-9G radio in an outdoor environment, emphasizing its NOAA Scanning & Receiving capabilities for weather alerts.

7.2 Repeater Compatibility

The UV-9G supports GMRS repeater operation, significantly extending your communication range. It features 31-54 channels designated as DIY repeater channels, in addition to common channels 23-30.

- Configure repeater settings (offset, CTCSS/DCS tones) via keypad or PC programming.
- Using a GMRS repeater can extend communication range up to 5 miles or more, depending on terrain and repeater location.

7.3 VOX (Voice Operated Exchange)

The VOX function allows for hands-free transmission. When activated, the radio will automatically transmit when it detects your voice, eliminating the need to press the PTT button.

1. Access the VOX setting through the radio's menu.
2. Adjust the VOX sensitivity level to prevent accidental transmissions or missed voice activation.

7.4 Programming

The UV-9G can be programmed either directly via the keypad or through a computer using the included programming cable.

- **Keypad Programming:** Use the MENU button and numeric keys to access and modify various settings such as frequencies, CTCSS/DCS tones, and power levels.
- **PC Programming:** For advanced customization and channel management, connect the radio to a computer using the BAOFENG original programming cable. Software is required and can typically be obtained from the manufacturer's website or by contacting customer support.

7.5 Flashlight and SOS Function

The radio includes a built-in flashlight for convenience and an SOS function for emergencies.

- Activate the flashlight via a dedicated side key or menu option.
- The SOS function, when activated, may emit an audible alarm and/or flash the light in a distress pattern. Refer to the radio's menu for specific activation methods.



Image 7.2: Two BAOFENG UV-9G radios demonstrating the activated flashlight feature, which can also be part of an SOS function.

8. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your UV-9G radio.

- **Cleaning:** Use a soft, damp cloth to clean the radio's surface. Do not use harsh chemicals or abrasive cleaners.
- **Waterproofing:** Regularly inspect the rubber seals around the battery compartment and accessory jack. Ensure they are free of dirt and damage to maintain the IP67 waterproof rating. Always ensure covers are securely closed before exposure to water.
- **Battery Care:** Store batteries in a cool, dry place. Avoid fully discharging the battery for extended periods. If storing for a long time, charge the battery to about 50% capacity.
- **Antenna:** Do not bend or twist the antenna excessively. Replace a damaged antenna immediately.
- **Storage:** When not in use, store the radio in a dry, dust-free environment away from direct sunlight and extreme temperatures.



Image 8.1: The BAOFENG UV-9G radio submerged in water, illustrating its IP67 waterproof capability.

9. Troubleshooting

If you encounter issues with your UV-9G radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on	Battery discharged or improperly installed	Charge the battery. Reinstall the battery correctly.
Cannot transmit	Incorrect channel, low battery, PTT button issue, no GMRS license	Verify channel is a GMRS transmit channel. Charge battery. Ensure PTT button is functioning. Obtain GMRS license.
Poor reception or short range	Weak signal, antenna issue, obstacles, low power setting	Check antenna connection. Move to an open area. Increase power setting (if applicable). Use a repeater.
Battery not charging	Charger/adapter faulty, poor contact	Check power connections. Ensure radio/battery is seated correctly in charger. Try a different outlet.
Keypad unresponsive	Keypad lock active	Unlock the keypad (refer to radio's specific key combination, often a long press of '#').

If the problem persists after attempting these solutions, please contact BAOFENG customer support for further assistance.

10. Specifications

Feature	Detail
Model Number	UV 9G
Frequency Range	GMRS 462.5500 ~ 467.7250 MHz (Rx & Tx)
Number of Channels	128
Water Resistance Level	IP67 Waterproof
Talking Range Maximum	5 Miles (with obstacles, further with repeater)
Battery Type	1 Lithium Ion battery required (1800mAh)
Product Dimensions	4.7 x 2.3 x 1.3 inches (1.3"D x 2.2"W x 4.5"H)
Item Weight	1.39 pounds
Special Features	Programming Cable Included, Weather Alert (NOAA)
Color	Black



Image 10.1: Dimensional diagram of the BAOFENG UV-9G radio, showing its height, width, and depth.

11. Warranty and Support

For warranty information, technical support, or service inquiries regarding your BAOFENG UV-9G GMRS Radio, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for warranty claims.

You may also visit the official BAOFENG website for additional resources, software downloads, and contact information.

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