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BAOFENG 5RH Pro GPS

BAOFENG 5RH Pro GPS Radio

Instruction Manual

Model: 5RH Pro GPS

1. Introduction

Thank you for choosing the BAOFENG 5RH Pro GPS Radio. This multi-band, high-power walkie-talkie is designed for reliable communication in various environments, featuring advanced GPS functionality, USB-C charging, and a robust set of communication features. This manual provides essential information for the safe and effective operation of your device.

Important Note: The GPS type 5RH Pro does NOT come with a flashlight. If a flashlight feature is required, please refer to other models.



Image: Comparison of BAOFENG 5RH Pro (right) and UV-5RM (left) models, illustrating that the 5RH Pro features GPS but no flashlight, while the UV-5RM has a flashlight but no GPS.

2. Package Contents

Upon opening your BAOFENG 5RH Pro GPS Radio package, please verify that all the following items are included:

- 1x BAOFENG 5RH Pro GPS Radio Unit
- 1x USB-C Cable
- 1x High Gain Original Antenna
- 1x 2500mAh Enlarge Capacity Battery
- 1x Desktop Charger
- 1x Belt Clip
- 1x Hand Strap
- 1x English Manual (this document)



Image: All components included in the BAOFENG 5RH Pro GPS Radio kit, laid out for inspection.

3. Setup

3.1 Battery Installation and Charging

1. Align the 2500mAh battery with the battery compartment on the back of the radio.
2. Slide the battery into place until it clicks securely.
3. To charge, connect the USB-C cable to the radio's Type-C charging port or place the radio in the provided desktop charger.
4. Connect the other end of the USB-C cable to a compatible USB power source (e.g., laptop, car charger, power bank, or wall adapter).
5. The charging indicator on the radio or desktop charger will show the charging status.



Image: Demonstrates the versatile USB-C charging capability of the BAOFENG 5RH Pro, showing direct cable connection and use with the charging dock, compatible with various USB power sources.

3.2 Antenna Attachment

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

3.3 Belt Clip and Hand Strap

Attach the belt clip to the back of the radio using the provided screws. Secure the hand strap to the designated loop on the radio for added security during use.

4. Operating Instructions

4.1 Power On/Off and Volume

To power on the radio, rotate the volume knob clockwise. Continue rotating to adjust the volume. To power off, rotate the knob counter-clockwise until it clicks.

4.2 Display and Channels

The BAOFENG 5RH Pro features a 1.77" TFT large screen for clear display. It supports Dual Watch mode, allowing you to monitor two frequencies simultaneously. The radio has 10 zones storage and up to 640 named memory channels.



Image: A detailed view of the radio's 1.77-inch LCD screen, demonstrating its dual display capability for monitoring two frequencies and showing channel details.

4.3 Frequency Copy (One Key Match Frequency)

This feature allows for quick frequency matching with another radio.

1. **Step 1:** Turn on the radio. Press and hold the designated button (refer to your radio's specific button layout for 'Search' or 'Scan' function) until the screen displays "SEARCH" or "Seeking".
2. **Step 2:** While your radio is searching, press and hold the transmit button of the other radio you wish to match. Once your radio finishes searching and displays the frequency and decode information, press the confirmation button (e.g., 'Menu' or 'OK') to confirm.
3. **Step 3:** Switch to channel mode. The screen will now show the frequency of the counterpart, allowing for immediate communication.



Image: A step-by-step visual guide illustrating how to use the 'One Key Match Frequency' function to quickly synchronize frequencies with another radio.

4.4 GPS Positioning and APRS

The BAOFENG 5RH Pro includes a GPS positioning function for accurate real-time location and sharing. It also supports APRS (Automatic Position Reporting System) to update your location to companions or rescue teams in real-time.



Image: The BAOFENG 5RH Pro radio screen showing GPS coordinates, with a graphic representation of global positioning for accurate location tracking and sharing.



Image: The radio screen highlighting the 'Falling Alarm' feature for emergency situations and the 'APRS' system for real-time location updates, along with menu navigation for GPS and GNSS settings.

4.5 NOAA Weather Channels

Stay informed about severe weather conditions with access to NOAA weather channels. The radio can provide real-time alerts, offering crucial time to respond to natural disasters.

4.6 Other Key Functions

- **VOX (Voice Activated Transmit):** Allows hands-free operation.
- **Built-in CTCSS/DCS Tones:** For selective calling.
- **VFO Scan Range Setting:** Customize frequency scanning.
- **Cross Band Reception:** Receive signals across different frequency bands.
- **Analog Signaling:** Supports DTMF, 2TONE, 5TONE, BDC1200 codecs.
- **Roger Beep:** An audible tone indicating the end of transmission.
- **Dual Watch:** Monitor two frequencies simultaneously.
- **Repeater Access Tone:** 1000/1450/1750/2100Hz options.

- **One Touch Call:** Quick access to a pre-programmed contact.
- **SOS Function:** For emergency signaling.
- **Falling Alarm:** Alerts others if the radio detects a fall, useful for outdoor safety.
- **Adjustable Screen Brightness:** For optimal viewing in various light conditions.
- **Auto Lock:** Prevents accidental key presses.
- **Power Save:** Extends battery life.

5. Maintenance

5.1 Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the USB-C port and other connectors are free of dust and debris.

5.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the radio and battery in a cool, dry place when not in use for extended periods. Recharge the battery periodically if stored for a long time.

5.3 Storage

When storing the radio, ensure it is powered off. Keep it away from extreme temperatures, direct sunlight, and high humidity. It is water resistant, but not fully waterproof; avoid submersion.

6. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on	Battery low or not installed correctly	Charge the battery; ensure battery is securely installed.
Cannot transmit or receive	Incorrect frequency/channel; Antenna loose; Battery low	Verify frequency/channel settings; Check antenna connection; Recharge battery.
Poor audio quality	Weak signal; Volume too low/high; Obstructions	Move to an open area; Adjust volume; Check for interference.
GPS not acquiring signal	Indoors or obstructed view of sky	Move to an open outdoor area with clear sky view.

7. Specifications

Feature	Detail
Model Number	5RH Pro GPS
Display	1.77" TFT LCD Screen
Number of Channels	640
Frequency Range	136-174 MHz, 400-470 MHz
Talking Range Maximum	10 Kilometer

Feature	Detail
Battery	1 Lithium Ion battery (2500mAh, included)
Charging	USB-C Charging
Special Features	GPS, One Key Copy Frequency, NOAA Weather Alert, VOX, APRS, Falling Alarm, Dual Watch
Water Resistance Level	Water Resistant
Item Weight	1.36 pounds
Product Dimensions	1.57 x 2.36 x 12.79 inches
Manufacturer	BAOFENG Electronics Co., Ltd

8. Warranty and Support

8.1 Warranty Information

A 1-year warranty is provided for the BAOFENG 5RH Pro GPS Radio. This warranty is valid only when purchased through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific contact details.

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