BAOFENG 5RH Pro GPS

BAOFENG 5RH Pro GPS Radio Instruction Manual

Model: 5RH Pro GPS

Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your BAOFENG 5RH Pro GPS Radio. This multi-band two-way radio features advanced GPS functionality, APRS support, NOAA weather channels, and convenient USB-C charging. Please read this manual thoroughly to ensure safe and effective use of your device.



Image: The BAOFENG 5RH Pro GPS Radio is equipped with GPS functionality. Note that this model does not include a flashlight feature.

Setup

1. Unboxing and Included Components

Carefully unpack your BAOFENG 5RH Pro GPS Radio and verify that all components are present:

- 1x 5RH Pro GPS Radio
- 1x USB-C Cable
- 1x High Gain Original Antenna
- 1x 6800mAh Large Capacity Battery
- 1x Desktop Charger
- 1x Belt Clip
- 1x Hand Strap
- 1x English Manual

- 1x 18.89in Tactical Antenna

2. Battery Installation

1. Align the 6800mAh battery pack 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 release latch (if present) and slide the battery downwards.

3. Charging the Battery

Before first use, fully charge the battery. The radio supports both USB-C direct charging and desktop charger cradle charging.

- **USB-C Charging:** Connect the provided USB-C cable to the radio's USB-C port and to a compatible USB power source (e.g., wall adapter, car charger, power bank, computer USB port).
- **Desktop Charger:** Place the radio with the battery installed into the desktop charging cradle. Ensure the charging contacts align. The indicator light on the charger will show the charging status.



Image: The BAOFENG 5RH Pro GPS Radio offers versatile charging options via its USB-C port, compatible with various power sources.

4. Antenna Installation

Screw the desired antenna (High Gain Original Antenna or 18.89in Tactical Antenna) clockwise onto the antenna connector on top of the radio until it is finger-tight. Do not overtighten.

5. Attaching Belt Clip and Hand Strap

Attach the belt clip to the back of the radio using the provided screws. Thread the hand strap through the designated loop on the radio for secure carrying.

Operating Instructions

1. Power On/Off and Volume Control

- **Power On:** Rotate the power/volume knob clockwise until you hear a click. The 1.77" TFT screen will illuminate.
- **Power Off:** Rotate the power/volume knob counter-clockwise until you hear a click.
- **Volume Adjustment:** Rotate the power/volume knob to adjust the audio output level.

2. Display and Keypad

The radio features a 1.77" TFT large screen and a full keyboard for menu navigation and frequency input. Use the arrow keys and the MENU button to access and adjust settings.

3. Channel and Frequency Selection

- **VFO Mode:** Allows direct frequency input. Press the VFO/MR button to switch to VFO mode.
- **Memory Mode:** Access up to 640 named memory channels. Press the VFO/MR button to switch to Memory mode and use the keypad or arrow keys to select a channel.
- **Frequency Range:** The radio operates within 136-174 MHz and 450-470 MHz.

4. GPS Positioning Function

The integrated GPS module provides accurate location data. Ensure you have a clear view of the sky for optimal GPS signal reception.

- **GPS Info:** Access the menu to view your current GPS coordinates.
- **Location Sharing:** Share your current location with other compatible devices.
- **Request Location:** Request location information from other users.



Image: The GPS feature ensures accurate real-time positioning and sharing capabilities.

5. APRS (Automatic Position Reporting System)

The APRS feature allows for real-time updating of your location to companions or rescue teams, enhancing safety in outdoor environments.



Image: The radio's menu allows access to GPS and GNSS settings, including APRS for automatic position reporting and a falling alarm feature.

6. One Key Match Frequency (Frequency Copy)

This feature allows you to quickly copy the frequency from another radio.

1. **Step 1:** Turn on your radio. Press and hold the designated button (refer to your radio's specific button layout, often a side key or a menu option) to initiate the frequency search. The screen will display "SEARCH".
2. **Step 2:** On the other radio, press and hold its transmit (PTT) button. Once your 5RH Pro finishes searching and displays the frequency and decode information, press the confirmation button on your radio.
3. **Step 3:** Switch your radio to channel mode. The screen will display the copied frequency, allowing communication.



Image: Steps for using the One Key Match Frequency feature to quickly synchronize with another radio's frequency.

7. NOAA Weather Channels

Access NOAA weather channels to receive real-time weather alerts and forecasts, providing crucial information for safety during adverse weather conditions.

8. VOX (Voice Activated Transmit)

When VOX is enabled, the radio will automatically transmit when it detects your voice, eliminating the need to press the PTT button.

9. Dual Watch

The Dual Watch function allows the radio to monitor two different frequencies or channels simultaneously.

10. Falling Alarm

The falling alarm feature can be activated to send an alert in case the radio detects a fall, useful for outdoor activities or emergency situations.

11. Signaling and Tones

- **CTCSS/DCS Tones:** Built-in Continuous Tone-Coded Squelch System (CTCSS) and Digital-Coded Squelch (DCS) for selective calling.
- **Analog Signaling:** Supports DTMF, 2TONE, 5TONE, and BDC1200 codecs for advanced communication.
- **Repeater Access Tones:** Includes 1000Hz, 1450Hz, 1750Hz, and 2100Hz tones for accessing repeaters.
- **Roger Beep:** An audible tone indicating the end of your transmission.

12. SOS Function

Activate the SOS function in emergencies to send a distress signal.

Maintenance

1. Battery Care

- Avoid fully discharging the battery frequently to prolong its lifespan.
- Charge the battery in a well-ventilated area.
- If storing the radio for an extended period, charge the battery to approximately 50% capacity.

2. Cleaning the Radio

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

3. Storage

Store the radio in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if storing for very long periods.

Troubleshooting

1. Radio Does Not Power On

- Ensure the battery is correctly installed and fully charged.
- Check the power/volume knob is rotated clockwise past the 'off' position.

2. No Signal or Poor Reception

- Verify the antenna is securely attached.
- Check that you are on the correct frequency or channel.
- Ensure you are within range of the transmitting station or repeater.
- Adjust squelch level if necessary.

3. GPS Not Acquiring Signal

- Ensure you have a clear, unobstructed view of the sky.
- Check GPS settings in the radio's menu to ensure it is enabled.
- Allow several minutes for initial satellite acquisition.

4. Frequency Copy Not Working

- Ensure the transmitting radio is within close proximity and actively transmitting during the copy process.
- Follow the "One Key Match Frequency" steps precisely.

Specifications

Model Number	5RH Pro GPS
Brand	BAOFENG
Number of Channels	640
Special Features	1.77inch LCD Screen, GPS, One Key Copy Frequency, USB-C Charging, Weather Alert
Frequency Range	136-174 MHz, 450-470 MHz
Voltage	5 Volts
Water Resistance Level	Not Water Resistant
Included Components	1x 5RH Pro GPS Radio, 1x USB-C Cable, 1x High Gain Original Antenna, 1x 6800mAh Large Capacity Battery, 1x Desktop Charger, 1x Belt Clip, 1x Hand Strap, 1x English Manual, 1x 18.89in Tactical Antenna
Compatible Devices	Two-way radios (cross band reception), External antennas (High Gain Original Antenna, 18.89in Tactical Antenna), USB-C charging accessories
Manufacturer	BAOFENG Electronics Co., Ltd

Warranty and Support

Warranty: A 1-year warranty is provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.

Support: For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller or manufacturer directly. Refer to the contact information provided with your purchase documentation.