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BAOFENG 5RH PRO

BAOFENG 5RH PRO GPS Tri-Band Ham Radio User Manual

Model: 5RH PRO

1. Introduction

The BAOFENG 5RH PRO is an advanced 10W Tri-Band Ham Radio designed for reliable long-range communication. It features a 1.77-inch color screen, 640 customizable channels across 10 zones, and integrated GPS functionality. This radio also includes a NOAA Weather Receiver for enhanced safety and a versatile USB-C and desktop charging system for convenience. This manual provides comprehensive instructions for setting up, operating, and maintaining your BAOFENG 5RH PRO radio.



Figure 1.1: BAOFENG 5RH PRO GPS Tri-Band Ham Radio and included accessories.

2. What's in the Box

Your BAOFENG 5RH PRO package includes the following components:

- 2 x BAOFENG 5RH PRO Ham Radio units
- 2 x 2500mAh Rechargeable Lithium Polymer Batteries
- 2 x Standard Antennas
- 2 x USB-C Charging Cables
- 2 x Desktop Chargers
- 2 x BAOFENG Earpieces
- 2 x Belt Clips
- 2 x Hand Straps
- 1 x User Manual (this document)

3. Key Features

The BAOFENG 5RH PRO offers a robust set of features for diverse communication needs:

- **Tri-Band Operation:** Supports FM RX, UHF, VHF, 1.25M, and Aviation RX frequencies.
- **High Power Output:** Up to 10W maximum power for extended range.
- **Integrated GPS:** View, share, and request position information, enhancing team coordination and safety.
- **NOAA Weather Mode:** Stay informed with real-time severe weather alerts.
- **Extensive Channel Capacity:** 640 channels organized into 10 customizable zones (up to 64 channels per zone).
- **1.77-inch Color Screen:** Large, clear, and easy-to-read display for optimal visibility in various lighting conditions.
- **Flexible Charging:** Equipped with a 2500mAh rechargeable battery, supporting both USB-C direct charging and desktop cradle charging.
- **Frequency Copy Function:** Easily scan and copy frequencies without the need for a programming cable.



Figure 3.1: Overview of BAOFENG 5RH PRO key features.



Figure 3.2: Channel organization and capacity.

4. Setup

4.1 Battery Installation and Charging

1. Align the 2500mAh battery with the back of the radio unit.
2. Slide the battery upwards until it clicks securely into place.
3. To charge, connect the USB-C cable directly to the radio's USB-C port or place the radio in the provided desktop charger.
4. Ensure the charging indicator light on the radio or desktop charger confirms charging is in progress.

4.2 Antenna Attachment

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

4.3 Initial Power On

Rotate the power/volume knob clockwise to turn on the radio. Adjust the knob to set your desired volume level.

4.4 Programming Software and Firmware Update

For advanced programming and firmware updates, dedicated software is required. Currently, CHIRP and Odmaster APP are not available for this model. Please download the official 5RH PRO software from walkietalkiesoftware.com. Refer to the programming tutorial video for detailed instructions.



Figure 4.1: Connecting the radio for CPS programming.

Your browser does not support the video tag.

Video 4.1: This video demonstrates the process of updating the firmware for the BAOFENG 5RH PRO radio. It shows how to connect the radio to a computer and use the provided software to perform the update.

5. Operating Instructions

5.1 Basic Operation

- **Power On/Off:** Rotate the top knob clockwise to turn on, counter-clockwise to turn off.
- **Volume Control:** Adjust the same top knob to control the audio volume.

- **Channel/Frequency Selection:** Use the up/down arrow keys or the keypad to navigate through channels or input frequencies.
- **Transmit (PTT):** Press and hold the Push-To-Talk (PTT) button on the left side of the radio to transmit. Release to receive.

5.2 Multi-Band Support

The BAOFENG 5RH PRO supports a wide range of frequencies including FM RX, UHF, VHF, 1.25M, and Aviation RX. You can switch between frequency bands as needed for various communication scenarios.



Figure 5.1: Multi-band capabilities of the radio.

5.3 NOAA Weather Mode

Activate the NOAA Weather Mode to receive real-time weather alerts and forecasts from the National Weather Service. This feature is crucial for outdoor activities and emergency preparedness.



Figure 5.2: NOAA Weather Radio feature.

5.4 GPS Functionality

The integrated GPS allows you to view your current position, share your location with other radios, and request the location of other team members. This is particularly useful for navigation and coordination in the field.

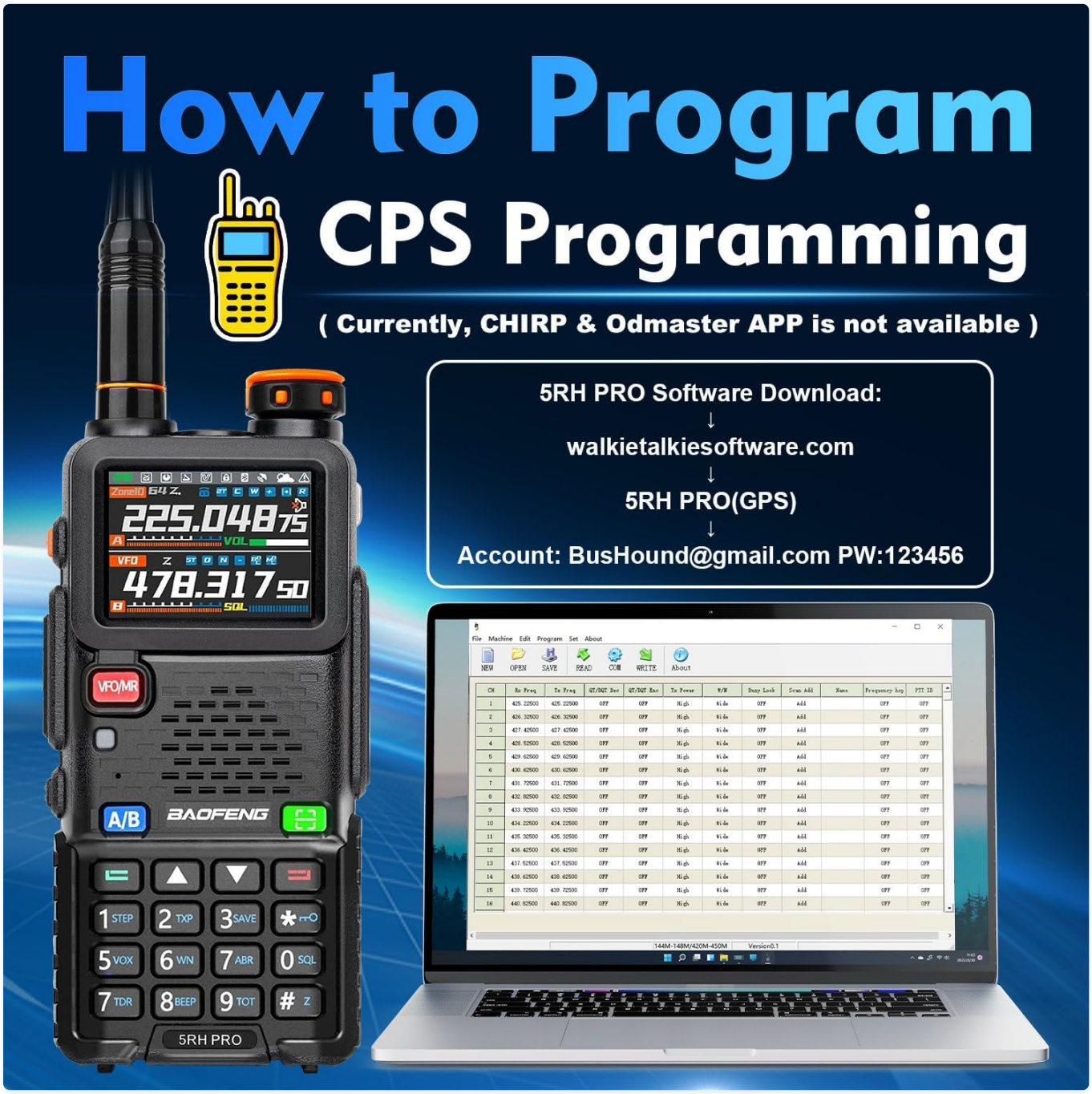


Figure 5.3: GPS information display on the radio.

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Video 5.1: This video demonstrates how to activate and use the GPS features on the BAOFENG 5RH PRO radio, including displaying current coordinates and sharing location.

Note: The APRS function is available since firmware version 2.0.7. Please update your radio to the latest firmware for full functionality.



Figure 5.4: Automatic Packet Reporting System (APRS) functionality.

6. Maintenance

6.1 Battery Care

- Fully charge the battery before first use.
- Avoid overcharging or completely draining the battery to prolong its lifespan.
- Store batteries in a cool, dry place when not in use.

6.2 Cleaning

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

6.3 Storage

When storing the radio for extended periods, remove the battery and store it separately. Keep the radio in a dry, dust-free environment away from extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
No signal reception.	Antenna not attached, out of range, or incorrect frequency/channel.	Ensure antenna is attached. Move closer to transmitting radio. Verify frequency/channel settings.
GPS not acquiring signal.	Radio is indoors or obstructed. Firmware outdated.	Move to an open outdoor area. Ensure firmware is updated to version 2.0.7 or later (refer to Section 4.4).
Difficulty with programming.	Incorrect software version or cable issues.	Ensure you are using the official 5RH PRO software from walkietalkiesoftware.com. Check programming cable connection.

8. Specifications

- **Model:** BAOFENG 5RH PRO
- **FCC ID:** 2AJGM-5RHPRO
- **Max Power Output:** 10W
- **Frequency Range:** FM RX, UHF, VHF, 1.25M, Aviation RX
- **Number of Channels:** 640 (10 zones, 64 channels per zone)
- **Screen:** 1.77-inch Color Screen
- **Battery:** 2500mAh Lithium Polymer (rechargeable)
- **Charging:** USB-C and Desktop Charger
- **Special Features:** GPS Function, NOAA Weather Mode, Frequency Copy
- **Item Weight:** Approximately 2.57 pounds (per unit, with battery)
- **Dimensions:** 8.7 x 7.91 x 4.09 inches (package dimensions)
- **Water Resistance Level:** Water Resistant
- **Country of Origin:** China

9. Warranty and Support

For warranty information, technical support, or further assistance, please visit the official BAOFENG support website or contact your retailer. Software and firmware updates are available at walkietalkiesoftware.com.

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