BAOFENG K5PLUS

BAOFENG K5PLUS Tri-Band Ham Radio User Manual

Model: K5PLUS

Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your BAOFENG K5PLUS Tri-Band Ham Radio. Please read this manual thoroughly before using the device to ensure proper function and safety.



Figure 1: BAOFENG K5PLUS Tri-Band Ham Radio and its accessories, including the radio unit, battery, desktop charger, speaker mic, and antennas.

Package Contents

Verify that all items are present in your package:

- 1 x BAOFENG K5PLUS Radio
- 1 x 2500mAh Li-ion Battery
- 1 x Desktop Charger
- 1 x High-gain Antenna
- 1 x 220MHz Antenna
- 1 x Speaker Microphone
- 1 x Headset
- 1 x Belt Clip

- 1 x Handstrap



Figure 2: All components included in the BAOFENG K5PLUS package, showing the radio, battery, charger, antennas, speaker mic, headset, belt clip, and handstrap.

Setup

1. Battery Installation and Charging

The BAOFENG K5PLUS is powered by a 2500mAh Li-ion battery. Ensure the battery is fully charged before first use.

1. Align the battery with the grooves on the back of the radio and slide it into place until it clicks securely.
2. To charge, place the radio with the battery installed into the desktop charger. The charger indicator light will show charging status.
3. Alternatively, connect a USB-C cable (not included) directly to the Type-C port on the battery for convenient charging.



Figure 3: Illustration of the two charging methods: using the included desktop charging cradle or directly via the USB-C port on the battery.

2. Antenna Attachment

Carefully screw the desired antenna (High-gain or 220MHz) onto the antenna connector at the top of the radio until it is finger-tight. Do not overtighten.

3. Speaker Mic and Headset Connection

Connect the speaker microphone or headset to the dual-pin audio jack on the side of the radio. Ensure a firm connection for clear audio.

Operating Instructions

1. Power On/Off and Volume Control

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

2. Frequency and Channel Selection

The K5PLUS features a 1.77" large color screen for clear display of frequencies and channels.



Figure 4: The 1.77-inch large color screen of the K5PLUS, showing dual frequency display for easy monitoring.

- Use the **V/M** button to switch between Frequency Mode (VFO) and Channel Mode (MR).
- In Frequency Mode, enter frequencies directly using the keypad.
- In Channel Mode, use the up/down arrow keys to navigate through the 999 available channels.
- Press the **BAND** button to cycle through the available frequency bands (UHF, VHF, 1.25M).

3. Multi-Band Transmit & Receive

The K5PLUS supports tri-band transmission (UHF, VHF, 1.25M) and multi-band reception (VHF, UHF, FM, Airband, 1.25M, 1M, NOAA), offering expanded coverage.



Figure 5: Visual representation of the K5PLUS's multi-band transmit and receive capabilities across various frequency ranges, including Airband and NOAA.

4. Tri-Power Output Adjustment

The radio supports adjustable power output (10W, 7W, 4W) for optimal communication range and battery efficiency.



Figure 6: Visual representation of the K5PLUS's tri-power output capabilities, allowing selection between High (10W), Medium (7W), and Low (4W) power levels.

Refer to the menu settings to select the desired power level (High, Medium, Low) based on your communication needs.

5. One-Key Frequency Copy

This feature allows for quick replication of frequencies and CTCSS/DCS codes from another radio.



Figure 7: The one-key frequency copy feature in action, showing how to quickly synchronize frequencies between two K5PLUS radios by pressing and holding the BAND button.

To use, place the K5PLUS near the transmitting radio, enter the frequency copy mode (usually by holding the**BAND** button), and initiate the copy process. Consult the on-screen prompts for detailed steps.

6. CHIRP Programming

The K5PLUS is programmable using CHIRP software, allowing for advanced configuration of frequencies, channel names, CTCSS/DCS tones, and power levels.

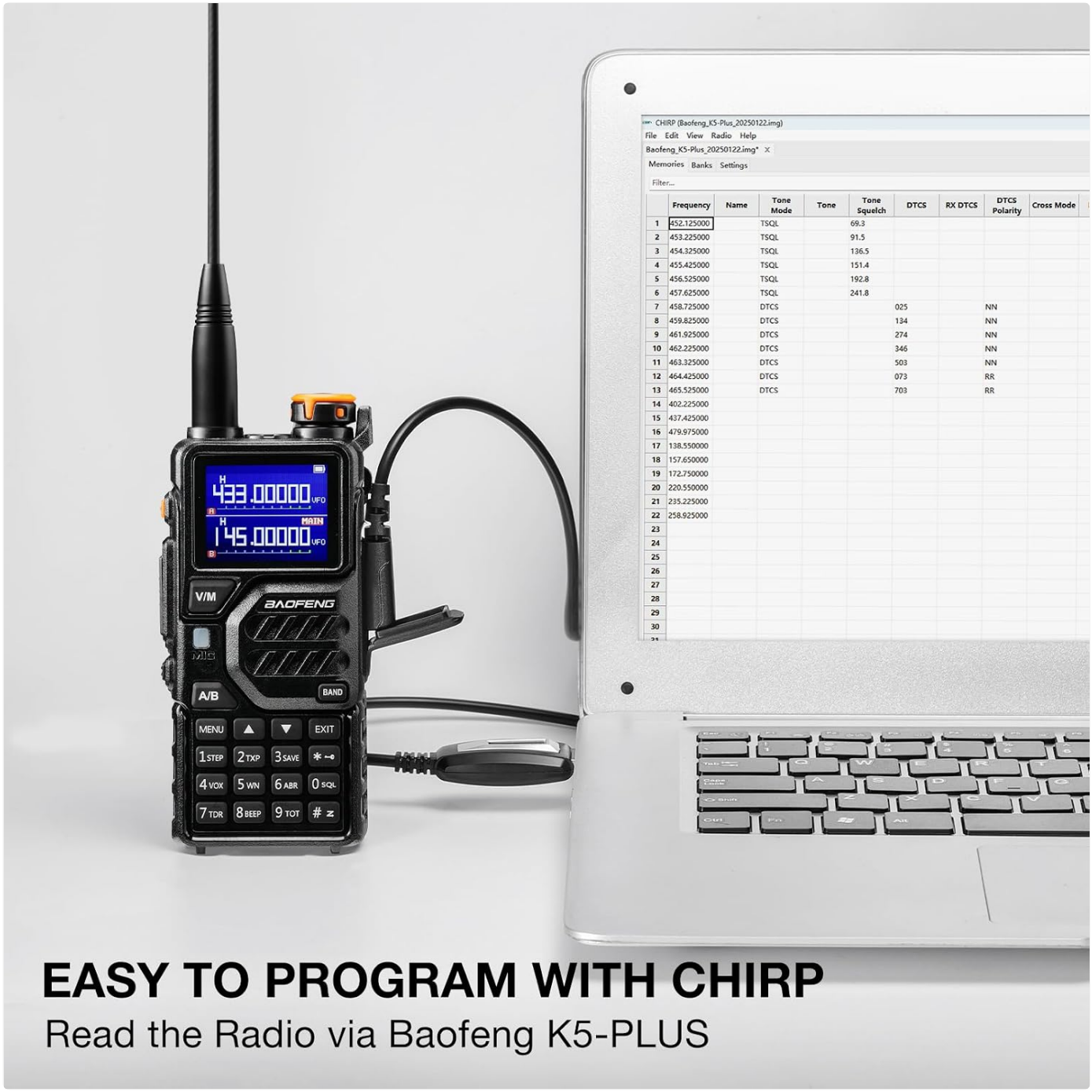


Figure 8: The BAOFENG K5PLUS connected to a laptop via a programming cable, illustrating the ease of programming using CHIRP software for customized settings.

A programming cable (sold separately) and CHIRP software are required. Detailed instructions for CHIRP programming can be found on the official CHIRP website or community forums.

7. Scanning Functions

The radio supports various scanning modes including Channel Scanning, Frequency Scanning, and CTCSS/DCS Scanning to find active transmissions.



Figure 9: The K5PLUS display indicating its all-in-one scanning capabilities for channels, frequencies, and CTCSS/DCS tones.

Access scanning functions through the radio's menu. Refer to the on-screen prompts for initiating and managing scans.

8. Scramble Function

The scramble feature enhances communication privacy by encrypting your voice transmissions.



Figure 10: The K5PLUS highlighting its privacy-boosting scrambler function, designed for enhanced communication security.

Activate the scramble function via the radio's menu settings. Both transmitting and receiving radios must have the scramble function enabled for it to work effectively.

Maintenance

1. Cleaning

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

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.

3. Storage

Store the radio in a protective case to prevent damage from drops or impacts. Keep away from extreme temperatures and direct sunlight.

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 audio or distorted audio.	Volume too low; speaker/mic not connected properly; frequency issue.	Increase volume; re-connect speaker/mic; verify correct frequency/channel.
Cannot transmit.	Incorrect frequency/channel; low battery; power level too low.	Check frequency/channel settings; charge battery; increase power output.
Short communication range.	Low power setting; unsuitable antenna; environmental interference.	Increase power output; use high-gain antenna; move to an open area.

Specifications

- **Model:** K5PLUS
- **Brand:** BAOFENG
- **Frequency Range:** UHF, VHF, 1.25M (Tri-Band Transmission)
- **Reception Bands:** VHF, UHF, FM, Airband, 1.25M, 1M, NOAA
- **Power Output:** 10W / 7W / 4W (Tri-Power)
- **Number of Channels:** 999
- **Battery:** 2500mAh Li-ion
- **Charging:** Desktop Charger, USB Type-C
- **Display:** 1.77" Large Color Screen
- **Special Features:** Digital Display, Lightweight, Long Range, Rechargeable, Voice Operated Transmission (VOX), One-Key Frequency Copy, Scramble, CHIRP Programmable
- **Dimensions (Package):** 8.03 x 4.84 x 4.45 inches
- **Weight (Item):** 1 pound (approximately 16 ounces)
- **Water Resistance Level:** Not Water Resistant

Warranty and Support

Your BAOFENG K5PLUS radio comes with an **18 Months Warranty** and **Lifetime Support**.
For technical assistance, warranty claims, or further inquiries, please contact BAOFENG customer support through their official channels. Refer to the product packaging or the BAOFENG official website for contact information.

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