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BAOFENG K5PLUS

BAOFENG K5PLUS 10W Tri-Band Ham Radio Instruction Manual

Model: K5PLUS

Introduction **Setup** **Operation** **Maintenance** **Warranty & Support** **Troubleshooting** **Specifications**

1. Introduction

The BAOFENG K5PLUS is a versatile 10W Tri-Band Ham Radio Handheld designed for reliable and flexible communication. It supports transmission across UHF, VHF, and 1.25M bands, and offers multi-band reception including FM, Airband, 1.25M, 1M, and NOAA weather radio. Equipped with a 2500mAh battery and dual charging options (desktop charger and USB-C), it ensures extended operation. Key features include one-key frequency copy, adjustable tri-power output (10W, 7W, 4W), and compatibility with CHIRP programming for easy customization of its 999 channels. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your K5PLUS radio.



Figure 1.1: BAOFENG K5PLUS radio and included accessories, showcasing the two handheld units, speaker microphones, antennas, charging cables, and desktop chargers.

2. Setup Guide

2.1 Unboxing and Package Contents

Carefully unpack all items from the box. Verify that all components are present:

- 2 x BAOFENG K5PLUS Radio Units
- 2 x 2500mAh Li-ion Batteries
- 2 x Desktop Chargers
- 2 x High-gain Antennas
- 2 x 220MHz Antennas
- 2 x Speaker Microphones

- 2 x Headsets
- 1 x Programming Cable
- 2 x Belt Clips
- 2 x Handstraps



Figure 2.1: All components included in the BAOFENG K5PLUS package, including radios, batteries, chargers, antennas, and accessories.

2.2 Battery Installation and Charging

The BAOFENG K5PLUS comes with a 2500mAh rechargeable Li-ion battery. For optimal performance, fully charge the battery before first use.

1. **Install Battery:** Align the battery with the grooves on the back of the radio and slide it upwards until it clicks into place. To remove, press the release latch and slide the battery downwards.
2. **Desktop Charging:** Connect the desktop charger to a power outlet. Place the radio (with battery installed) into the charging cradle. The indicator light will show charging status.
3. **USB-C Charging:** For convenience, the battery also features a USB-C port. Connect a standard USB-C cable (not

included) to the battery's port and a USB power source.



Figure 2.2: The two charging methods for the BAOFENG K5PLUS: using the included desktop charger or directly via the USB-C port on the battery.

2.3 Antenna Attachment

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

2.4 Initial Power On

Rotate the power/volume knob clockwise to turn on the radio. Continue rotating to adjust the volume to a comfortable level.

3. Operating Instructions

3.1 Basic Controls and Display

Familiarize yourself with the radio's buttons and the 1.77" color screen. The screen displays frequency, channel number, battery status, signal strength, and various function indicators.



Figure 3.1: The vibrant 1.77-inch color screen of the BAOFENG K5PLUS, providing clear display of frequencies and operational status.

- **Power/Volume Knob:** Top right, turns the radio on/off and adjusts volume.
- **PTT (Push-to-Talk) Button:** Left side, press and hold to transmit, release to receive.
- **V/M Button:** Switches between Frequency (VFO) mode and Channel (Memory) mode.
- **A/B Button:** Switches between the upper (A) and lower (B) frequency displays.
- **BAND Button:** Cycles through frequency bands (VHF, UHF, 1.25M).
- **MENU Button:** Enters the menu system for advanced settings.
- **EXIT Button:** Exits menu or cancels current operation.
- **Keypad:** For direct frequency entry and menu navigation.

3.2 Frequency Selection and Multi-Band Operation

The K5PLUS supports tri-band transmission (UHF, VHF, 1.25M) and multi-band reception. In VFO mode, you can directly enter frequencies using the keypad. Use the BAND button to select the desired frequency range.



Figure 3.2: Visual representation of the BAOFENG K5PLUS's multi-band transmit and receive capabilities across various frequency ranges including AM, FM, NOAA, VHF, and UHF.

3.3 Channel Programming and Copying

The radio supports 999 channels. Channels can be programmed manually or via software like CHIRP. The one-key frequency copy feature simplifies setup between radios.

- **One-Key Frequency Copy:** To copy frequency and CTCSS/DCS codes from another radio, ensure both radios are in close proximity. Press and hold the **BAND** button on the K5PLUS to initiate the copy function. Follow on-screen prompts.
- **CHIRP Programming:** For advanced programming and managing multiple channels, it is highly recommended to use CHIRP software with the included programming cable. This allows for easy configuration of frequencies, channel names, tones, and power levels.



Figure 3.3: The one-key frequency copy function, allowing quick transfer of settings between two BAOFENG K5PLUS radios.

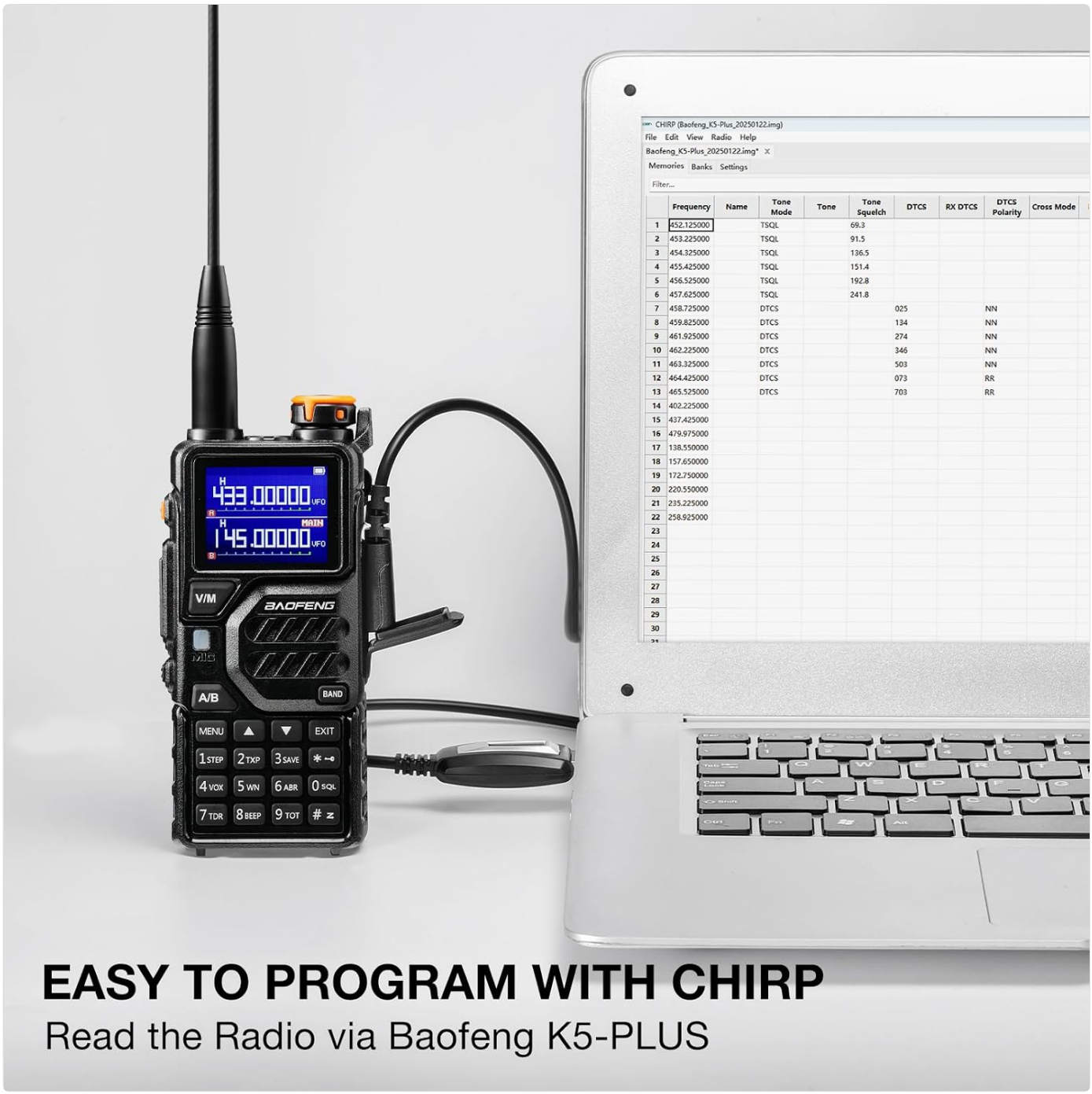


Figure 3.4: The BAOFENG K5PLUS connected to a laptop via a programming cable, illustrating the ease of programming with CHIRP software.

3.4 Tri-Power Output Adjustment

The K5PLUS offers adjustable power output levels: 10W (High), 7W (Medium), and 4W (Low). Adjusting the power level helps conserve battery life and optimize communication range for different situations.

To change the power output, navigate through the radio's menu settings. Refer to the detailed menu guide in the full user manual for specific steps.



Figure 3.5: Display of the three power output levels (10W, 7W, 4W) available on the BAOFENG K5PLUS, along with a power meter showing output readings.

3.5 Special Features

- **FM Radio:** The radio can receive standard FM broadcast stations.
- **Airband Reception:** Listen to air traffic control communications.
- **NOAA Weather Radio:** Receive alerts and broadcasts from the National Oceanic and Atmospheric Administration.
- **Scramble Function:** Enhances communication privacy.
- **VOX (Voice Operated Transmit):** Allows hands-free transmission when a certain voice level is detected.
- **All-in-One Scanning:** Supports channel scanning, frequency scanning, and CTCSS/DCS scanning.



Figure 3.6: The BAOFENG K5PLUS's comprehensive scanning capabilities, including channel, frequency, and CTCSS/DCS scanning.



Figure 3.7: The privacy-boosting scrambler feature of the BAOFENG K5PLUS, enhancing communication security.

4. Maintenance

4.1 Cleaning

To clean the radio, use a soft, damp cloth. Do not use harsh chemicals, solvents, or abrasive cleaners. Ensure the radio is powered off and the battery is removed before cleaning.

4.2 Battery Care

- Avoid overcharging or completely discharging the battery.
- Store batteries in a cool, dry place when not in use.
- If the radio will not be used for an extended period, remove the battery.

4.3 Storage

Store the radio in a dry, dust-free environment, away from direct sunlight and extreme temperatures. Protect it from physical shocks.

5. Troubleshooting

This section addresses common issues you might encounter with your BAOFENG K5PLUS radio. For more complex problems, consult online resources or contact customer support.

Problem	Possible Cause	Solution
Radio does not power on.	Battery is not installed correctly or is discharged.	Ensure battery is securely installed. Charge the battery fully.
Cannot transmit or receive.	Incorrect frequency/channel, antenna not connected, low battery, or squelch too high.	Verify frequency/channel. Check antenna connection. Charge battery. Adjust squelch level. Ensure you have the necessary license for transmission.
Poor audio quality.	Low signal strength, incorrect CTCSS/DCS settings, or environmental interference.	Move to an area with better signal. Verify CTCSS/DCS tones match. Reduce interference sources.
Difficulty programming channels.	Manual programming can be complex. Programming cable or software issues.	Utilize CHIRP software and the programming cable for easier channel management. Refer to online tutorials for detailed programming guides.

Note: The included manual provides basic information. Many users find online tutorials and communities (e.g., YouTube, amateur radio forums) invaluable for advanced programming and troubleshooting with BAOFENG radios.

6. Specifications

Feature	Detail
Brand	BAOFENG
Model Number	K5PLUS
Frequency Range	UHF, VHF, 1.25M (Tri-Band)
Power Output	10W / 7W / 4W (Adjustable)
Number of Channels	999
Battery Capacity	2500mAh Li-ion
Charging Options	Desktop Charger, USB-C Port
Display	1.77" Color Screen
Special Features	Long Range, Digital Display, VOX, Channel Clone, USB-C Rechargeable, FM/Airband/NOAA Reception, Scramble, One-Key Frequency Copy, CHIRP Programmable
Item Weight	1 pound
Product Dimensions	7.87 x 1.97 x 3.94 inches

Feature	Detail
Country of Origin	China
Water Resistance Level	Not Water Resistant
Talking Range Maximum	5 Kilometer

7. Warranty & Support

7.1 Warranty Information

The BAOFENG K5PLUS comes with an**18 Months Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact BAOFENG customer support. The product also includes **Lifetime Support**, ensuring ongoing assistance for the lifespan of your radio.
Refer to the contact information provided with your product packaging or visit the official BAOFENG website for the most up-to-date support details.

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