BaoFeng UV-28 PLUS

BAOFENG UV-28 PLUS User Manual

Model: UV-28 PLUS | Brand: BaoFeng

1. Introduction

The BAOFENG UV-28 PLUS is a powerful and versatile two-way radio designed for both professional and enthusiast use. It offers robust communication capabilities with a high 10W power output, multi-band reception, and dual-band transmission. This manual provides comprehensive instructions for setting up, operating, and maintaining your UV-28 PLUS radio to ensure optimal performance and longevity.

Key features include a large 1.77-inch color display, a 2200mAh USB-C rechargeable battery, Bluetooth app programming, integrated GPS for real-time location services, 1000 channels, one-touch frequency copy, and DTMF dialing.

2. Product Overview

Familiarize yourself with the main components and features of your BAOFENG UV-28 PLUS radio.



Figure 2.1: BAOFENG UV-28 PLUS radio with its companion programming application on a smartphone. This image illustrates the compact design of the radio and its modern app-based configuration capability.



Figure 2.2: Detailed view of the 1.77-inch color screen, showcasing its clarity and readability. The screen displays frequency, channel name, and other essential operational information.

2.1 Key Features

- **Powerful 10W Output:** Ensures clear and long-range communication.
- **Multi-Band Reception & Dual-Band Transmission:** Supports UHF, VHF, Airband, and FM reception.
- **1.77-inch Color Screen:** Provides excellent readability and a user-friendly interface.
- **2200mAh Battery with USB-C Charging:** Offers extended operating time and convenient recharging.
- **Integrated GPS:** For real-time positioning, location sharing, and coordination.
- **Bluetooth App Programming:** Wireless configuration via a dedicated application.
- **1000 Channels:** Organized across 10 zones for extensive communication options.
- **Frequency Copy Function:** Simplifies frequency replication.
- **DTMF Dialing:** For advanced communication functions.

3. Setup

Before using your radio, ensure it is properly assembled and charged.



Figure 3.1: Unboxed components of the BAOFENG UV-28 PLUS, including the radio body, rechargeable battery, antenna, desktop charger, power adapter, and a wired earpiece.

3.1 Attaching the Antenna

1. Carefully screw the antenna clockwise into the antenna connector on top of the radio until it is finger-tight. Do not overtighten.

3.2 Installing the Battery

1. Align the battery pack with the grooves on the back of the radio.
2. Slide the battery upwards until it clicks into place.
3. To remove, push the battery release latch (usually at the bottom of the battery) and slide the battery downwards.

3.3 Charging the Battery

1. Connect the USB-C cable to the radio's USB-C port or place the radio in the charging cradle.
2. Connect the other end of the USB-C cable to a compatible USB power adapter (not always included) or plug the charging cradle's adapter into a power outlet.
3. The charging indicator light will typically show red during charging and turn green when fully charged.
4. A full charge takes approximately 4-5 hours.

4. Operating Instructions

4.1 Power On/Off and Volume Control

- To power on, rotate the volume knob (top-left) clockwise until you hear a click.
- Continue rotating the knob to adjust the volume level.
- To power off, rotate the volume knob counter-clockwise until you hear a click.

4.2 Channel/Frequency Selection

- Use the **V/M** button to switch between Frequency (VFO) mode and Channel (MR) mode.
- In Channel mode, use the **UP/DOWN** arrow keys to navigate through programmed channels.
- In Frequency mode, use the keypad to directly input frequencies or the **UP/DOWN** arrow keys to adjust frequency in steps.

4.3 Transmitting and Receiving

- To transmit, press and hold the **PTT (Push-To-Talk)** button on the left side of the radio. Speak clearly into the microphone.
- Release the **PTT** button to receive.
- Ensure you are on a clear frequency or channel before transmitting.



Figure 4.1: Illustration of the multi-band transmit and receive capabilities of the UV-28 PLUS, covering various frequency ranges for comprehensive communication.

5. GPS Navigation

The integrated GPS functionality allows for real-time location tracking and sharing, enhancing coordination and safety during outdoor activities or emergency operations.



Figure 5.1: Visual representation of the GPS navigation feature, enabling users to easily check, share, and request locations for improved team coordination in various environments.

5.1 Accessing GPS Information

- Navigate to the GPS menu option on the radio's display.
- The screen will display real-time latitude, longitude, and altitude data.

5.2 Sharing and Requesting Locations

- The radio supports sharing your current GPS coordinates with other compatible devices or team members.
- You can also request the location of other team members, facilitating precise rendezvous points or tracking.
- Refer to the on-screen menu for specific options related to GPS data transmission and reception.

6. Programming

The UV-28 PLUS offers multiple programming methods for flexible configuration of channels, frequencies, and other

settings.



Figure 6.1: Overview of the versatile programming options available for the UV-28 PLUS, including wireless app programming, computer software (CPS), and direct keypad input.

6.1 Bluetooth App Programming

- Download the dedicated BAOFENG programming application from your smartphone's app store.
- Enable Bluetooth on your radio and smartphone.
- Pair the radio with the app.
- Use the app's intuitive interface to customize all parameters and functions wirelessly, eliminating the need for a PC or programming cable.

6.2 CPS (Computer Programming Software)

- For advanced users, the radio can be programmed using Computer Programming Software (CPS).
- This typically requires a specific programming cable (sold separately) to connect the radio to a computer.
- Refer to the software's documentation for detailed instructions.

6.3 Keypad Programming

- Basic programming and setting adjustments can be made directly using the radio's keypad and menu system.
- Consult the on-screen menu for options such as frequency input, channel storage, and function settings.

6.4 Frequency Copy Function

- The one-touch frequency copy function allows for quick replication of a received frequency.
- Activate this feature via the menu to instantly save or apply a detected frequency.

7. Maintenance

Proper maintenance ensures the longevity and reliable operation of your radio.

- **Cleaning:** Use a soft, damp cloth to clean the radio's surface. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery.
- **Battery Care:** Avoid fully discharging the battery frequently. Recharge the battery before it is completely depleted to prolong its lifespan.
- **Antenna:** Do not bend or force the antenna, as this can damage the connector or reduce performance.

8. Troubleshooting

If you encounter issues with your radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.
Cannot transmit or receive.	Incorrect frequency/channel, antenna loose, or out of range.	Verify frequency/channel, check antenna connection, move closer to other radios.
Poor audio quality.	Low battery, weak signal, or incorrect squelch setting.	Charge battery, move to an area with better signal, adjust squelch level.
GPS not acquiring signal.	Obstructed view of sky, indoors.	Move to an open outdoor area with clear sky view.

9. Specifications

Detailed technical specifications for the BAOFENG UV-28 PLUS radio.

Feature	Detail
Brand	BaoFeng
Model Number	UV-28 PLUS
Special Features	Dual-band, Rechargeable
Compatible Devices	Baofeng radios operating on 144-146 MHz and 430-440 MHz frequencies

Feature	Detail
Battery Composition	Lithium-ion
Rechargeable Battery	Yes
Number of Channels	1000
Frequency Range	144-146 MHz, 430-440 MHz
Tuning Technology	UHF / VHF
Voltage	9 Volts
Water Resistance Level	Not waterproof
Included Components	Antenna, Battery
Country of Origin	China



Figure 9.1: Physical dimensions and detailed views of the radio's features, including the top connectors, side buttons, and battery contacts.

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official BaoFeng website. Keep your proof of purchase for warranty claims.

For further assistance, you may contact the seller, Radioddity United Kingdom, through the Amazon platform.

© 2025 BaoFeng. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question