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BAOFENG UV20

BAOFENG UV20 Walkie Talkie User Manual

Model: UV20

Introduction

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your BAOFENG UV20 Walkie Talkie. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

Product Overview

The BAOFENG UV20 is a portable dual-band transceiver designed for reliable long-range communication. It features Type-C charging, a 1.77" TFT large screen, full keyboard, and various practical functions suitable for outdoor activities.



Figure 1: BAOFENG UV20 Walkie Talkie with included accessories, including the radio unit, battery, antenna, and charger.

Key Features

- **Type-C Rechargeable:** Convenient charging via USB-C port on the battery.
- **Private Call:** 50 CTCSS tones and 105 DCS codes for secure communication.
- **VOX Function:** Voice-operated transmission for hands-free operation.
- **FM Radio:** Built-in FM radio for entertainment.
- **1.77" TFT Large Screen:** Clear display for easy navigation.
- **Dual Band** / **Dual Watch** / **Dual Reception:** Monitor two frequencies simultaneously.
- **Long Range:** Communication distance up to 5-10 KM.
- **Durable Design:** Sturdy casing with anti-drop design.

Package Contents

Upon opening the package, please verify that all items are present and in good condition:

- BAOFENG UV20 Walkie Talkie Unit

- Li-ion Battery Pack
- Antenna
- Belt Clip
- Desktop Charger (Adapter and Charging Tray)
- User Manual (this document)

Product Components



Figure 2: Detailed diagram illustrating the various components of the BAOFENG UV20 Walkie Talkie, including VOX, Dual Watch, Wide/Narrow band, FM radio, High Power, RX CTCSS, RX DCS, DTMF, Channel Mode, Frequency Mode, and 10 Zone settings.

1. Antenna Connector
2. Power/Volume Knob
3. LCD Display (1.77" TFT)
4. Keypad (Full Keyboard)
5. PTT (Push-to-Talk) Button

6. Monitor Button
7. Flashlight
8. Microphone
9. Speaker
10. Battery Pack with Type-C Charging Port

Setup

1. Battery Installation and Charging

Before first use, fully charge the battery. The Type-C charging port is located on the back of the battery.

- Align the battery pack with the grooves on the back of the radio and slide it upwards until it clicks into place.
- To charge, connect a Type-C cable to the port on the battery. The charging indicator will show the charging status.
- Alternatively, place the radio with the battery installed into the desktop charging tray. Ensure the charging contacts align.

2. Antenna Installation

Screw the antenna clockwise into the antenna connector on the top of the radio until it is firmly seated.

3. Belt Clip Installation

Attach the belt clip to the designated slot on the back of the radio for convenient carrying.

Operating Instructions

1. Power On/Off and Volume Control

Rotate the Power/Volume knob clockwise to turn on the radio and adjust the volume. Rotate counter-clockwise until a click is heard to turn off.

2. Channel Selection

Use the UP/DOWN arrow keys or the keypad to select desired channels. The UV20 supports up to 1000 channels.

3. Transmitting and Receiving

- To transmit, press and hold the PTT (Push-to-Talk) button on the side of the radio. Speak clearly into the microphone.
- Release the PTT button to receive.

4. VOX Function (Voice Operated Transmission)

The VOX function allows transmission without pressing the PTT button. To activate/deactivate VOX:

1. Press the **MENU** button.
2. Navigate to the VOX setting using the UP/DOWN arrow keys.
3. Press **MENU** again to enter the setting.
4. Select the desired VOX level (1-10) or OFF.
5. Press **MENU** to confirm, then **EXIT** to return.

5. FM Radio Operation

To listen to FM radio:

- Press the dedicated FM button (if available) or navigate through the menu to the FM radio function.
- Use the arrow keys to scan for stations or manually enter a frequency.

6. NOAA Weather Channels

The radio supports 10 NOAA weather channels for receiving the latest weather forecasts. This feature is suitable for the North American area only.



Figure 3: The BAOFENG UV20 display showing a NOAA weather channel (CH-01) with the NOAA icon, indicating weather forecast reception.

Advanced Functions

1. Dual Watch / Dual Reception

This function allows the radio to monitor two different frequencies (A and B) simultaneously. If a signal is detected on either frequency, the radio will switch to that frequency.

2. CTCSS/DCS Codes

Use CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) codes to filter out unwanted signals and ensure privacy in your communications. Refer to the menu for setting these codes on channels.

3. Scanner Function

The scanner function allows the radio to automatically scan through programmed channels or a frequency range to find active transmissions.

4. Stopwatch Function

The UV20 includes a stopwatch function, useful for timing activities such as outdoor sports, climbing, running, or swimming.



Figure 4: The BAOFENG UV20 screen showing the stopwatch function activated, with a timer displayed, suitable for various outdoor activities.

Maintenance

1. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the Type-C port cover is closed when not charging to prevent dust and moisture ingress.

2. Battery Care

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

3. Water Resistance

The BAOFENG UV20 features IP54 life waterproof protection, meaning it is resistant to splashes. It is**not** fully submersible. Avoid exposing the radio to heavy rain or immersion in water.



Figure 5: Illustration of the BAOFENG UV20 demonstrating its IP54 life waterproof protection, showing resistance to splashes.

Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Reinstall the battery, ensuring it clicks into place.
Cannot transmit or receive.	Incorrect frequency/channel, antenna loose, or battery low.	Verify frequency/channel settings. Tighten antenna. Charge battery.
Poor audio quality.	Volume too low, squelch level too high, or interference.	Adjust volume. Lower squelch level. Move away from sources of interference.
VOX not working.	VOX sensitivity too low or VOX is off.	Increase VOX sensitivity in the menu. Ensure VOX is enabled.

Specifications

Feature	Detail
Model	UV20
Brand	BAOFENG
Display	1.77" TFT Large Screen
Channels	Up to 1000
Charging	Type-C Rechargeable
Talking Range (Max)	5-10 Kilometers
Tuner Technology	UHF, VHF (Dual Band)
Water Resistance	IP54 Life Waterproof (Splash Resistant)
Special Features	VOX, FM Radio, Stopwatch, DTMF Encoder, Scanner Function, Keypad Lock, Emergency Alert
Included Components	Battery Included
UPC	755745370610

Warranty and Support

The product information states "No Warranty". For any operational issues or technical support, please refer to the official BAOFENG support channels or contact your retailer.
For further assistance, you may visit the official BAOFENG store:BAOFENG Store on Amazon.

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