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BAOFENG W31

BAOFENG W31 Mini Walkie Talkie User Manual

Model: W31

1. Introduction

This manual provides detailed instructions for the operation and maintenance of your BAOFENG W31 Mini Walkie Talkie. Please read this manual thoroughly before using the device to ensure proper function and safety.

The BAOFENG W31 is a compact two-way radio designed for reliable communication, featuring USB-C charging, NOAA weather alerts, and a durable, splash-proof design.

2. Package Contents

Verify that all items are present in your package:

- 2 x W31 Radio Units
- 2 x Antennas
- 2 x USB-C Cables
- 2 x USB Charger Docks
- 2 x 1500mAh Li-ion Batteries
- 2 x Belt Clips
- 2 x Slings
- 2 x User Manuals



Image: Contents of the BAOFENG W31 radio package, showing two radio units, antennas, USB-C cables, charger docks, batteries, belt clips, and slings.

3. Product Overview

Familiarize yourself with the components of your BAOFENG W31 radio:



Image: Diagram illustrating the various components of the BAOFENG W31 radio, including the Antenna, Power Switch/Volume Control, PTT Button, Speaker, Channel UP Button, Channel Down/Monitor Button, K-Type Headset/Programming Cable Port, and Accessory Port.

- **Antenna:** For transmitting and receiving signals.
- **Power Switch/Volume Control:** Rotate to power on/off and adjust volume.
- **PTT Button (Push-to-Talk):** Press and hold to transmit, release to receive.
- **Speaker:** Outputs received audio.
- **Channel UP Button:** Changes to the next higher channel.
- **Channel Down/Monitor Button:** Changes to the next lower channel. Press and hold to activate monitor function.
- **K-Type Headset/Programming Cable Port:** For connecting K-type accessories or programming cable.
- **Accessory Port:** Another port for accessories.

4. Setup

4.1. Battery Installation

1. Align the 1500mAh Li-ion battery pack with the battery compartment on the back of the radio.
2. Slide the battery into place until it clicks securely.

3. To remove, press the battery release latch (if present) and slide the battery out.

4.2. Antenna Attachment

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

4.3. Charging the Battery

The BAOFENG W31 supports USB-C charging for convenience.



Image: Close-up of the BAOFENG W31 radio showing the USB-C charging port, highlighting its compatibility with various USB power sources like car chargers, PCs, power banks, and USB socket plugs.

1. Connect the provided USB-C cable to the USB-C port on the radio.
2. Connect the other end of the USB-C cable to a USB charger dock, a compatible USB power adapter, a computer, or a power bank.
3. The charging indicator (if present) will show the charging status. Refer to the radio's display or LED for specific indications.
4. A full charge typically takes several hours. The radio is ready for use once fully charged.

5. Operating Instructions

5.1. Power On/Off and Volume Control

- To power on the radio, rotate the Power Switch/Volume Control knob clockwise until you hear a click.
- To power off, rotate the knob counter-clockwise until it clicks.
- Adjust the volume by rotating the same knob clockwise to increase and counter-clockwise to decrease.

5.2. Channel Selection

- Press the **Channel UP Button** to move to the next higher channel.
- Press the **Channel Down Button** to move to the next lower channel.
- The W31 supports 16 channels.

5.3. Transmitting and Receiving (PTT)

- To transmit, press and hold the **PTT Button**. Speak clearly into the microphone.
- Release the **PTT Button** to stop transmitting and return to receive mode.
- Ensure the channel is clear before transmitting.

5.4. Monitor Function

- Press and hold the **Channel Down/Monitor Button** to temporarily disable the squelch and listen for weak signals on the current channel. Release to return to normal operation.

5.5. VOX Function (Voice Operated Exchange)

The VOX function allows for hands-free communication without pressing the PTT button.

- When VOX is enabled (typically via programming software), the radio will automatically transmit when it detects your voice.
- The VOX sensitivity can be adjusted in 5 different levels (1-5) using the programming software to suit your environment and voice level.

5.6. NOAA Weather Alarm

The W31 can receive NOAA weather channels and provide real-time alerts.

- Access to NOAA weather channels allows you to stay informed about severe weather conditions.
- The weather alarm function provides crucial time to respond to natural disasters such as tornadoes, hurricanes, and floods.
- Refer to local regulations for NOAA channel availability and usage.

5.7. Channel Scan

The channel scan feature allows the radio to automatically scan through active channels.

- To activate channel scan, refer to the radio's specific button combination or programming software settings.
- The radio will stop on an active channel and resume scanning after a short period of inactivity.

5.8. SOS Flashlight

The radio includes an SOS flashlight feature for emergency signaling.

- To activate the SOS flashlight, refer to the radio's specific button combination. This typically involves a long press of a designated button.

6. Maintenance

6.1. Cleaning

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

6.2. Battery Care

- Avoid fully discharging the Li-ion battery frequently to prolong its lifespan.
- Store the radio and battery in a cool, dry place when not in use for extended periods.
- If the battery is not used for a long time, charge it periodically to maintain its capacity.

6.3. Water Resistance (IP54)



Image: The BAOFENG W31 radio shown partially submerged in water, illustrating its IP54 splash-proof capability.

- The BAOFENG W31 is rated IP54 splash-proof, providing protection against dust ingress and water splashes from any direction.
- This rating means it is suitable for outdoor activities where light rain or splashes may occur.
- **Caution:** The radio is not designed for submersion in water. Do not intentionally immerse the device. Ensure all port

covers are securely closed to maintain splash resistance.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery. Reinstall the battery pack.
Cannot transmit or receive.	Incorrect channel, out of range, or antenna not attached.	Verify channel. Move closer to other radios. Ensure antenna is securely attached.
Poor audio quality.	Low battery, weak signal, or volume too low.	Charge battery. Move to an area with better signal. Adjust volume.
Battery life is short.	Battery is old or not fully charged.	Ensure full charge. Consider replacing old batteries.

8. Specifications

Feature	Detail
Frequency Range	400-470MHz
Output Power	≤2W / ≤0.5W
Channels	16
Sub-codes	260 (50 CTCSS, 210 DCS)
Battery	1500mAh Li-ion
Battery Life (typical)	Up to 18 hours
Charging	USB-C
Range (max)	Up to 5 km (environment dependent)
Water Resistance	IP54 Splash-proof
Operating Temperature	-10°C to +40°C
Dimensions (without Antenna)	136mm x 56mm x 28mm
Weight (with Battery)	130g
Antenna Impedance	50ohm
Receive Sensitivity	0.25µV (12dB SINAD)

Note: Range may vary depending on environmental and/or topographical conditions.

9. Warranty and Support

9.1. Warranty Information

The BAOFENG W31 radio comes with a**3-month warranty** provided exclusively through "Shiqun Electronics Co., Ltd". Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact the seller or manufacturer directly. Refer to your purchase documentation for contact details.

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