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Baofeng GT-22

Baofeng GT-22 PMR 446 Professional License-Free Walkie-Talkies User Manual

Your comprehensive guide to operating and maintaining your Baofeng GT-22 radios.

Introduction

The Baofeng GT-22 PMR 446 walkie-talkies are designed for reliable and efficient communication in various environments. These compact and robust radios are an ideal solution for both professional users needing to stay in contact with their team and individuals requiring dependable two-way communication. With 16 pre-programmable channels and a range of up to 3-4 km under optimal conditions, the GT-22 is suitable for construction sites, factories, warehouses, hotels, and trade fairs.

This manual provides detailed instructions on setting up, operating, maintaining, and troubleshooting your Baofeng GT-22 radios to ensure optimal performance and longevity.

Package Contents

Before you begin, please verify that all items are present in your package:

- 2 x Baofeng GT-22 Walkie-Talkies
- 2 x Headsets
- 2 x Lithium-ion Batteries (1500 mAh)
- 2 x Charging Docks
- 1 x 2-in-1 Micro USB Charging Cable
- 2 x Lanyards



Image: All components included in the Baofeng GT-22 package.

Product Overview

Familiarize yourself with the main components and controls of your Baofeng GT-22 walkie-talkie:



Image: Front view of the Baofeng GT-22 walkie-talkies and accessories.

Antenna: For transmitting and receiving signals.

Power/Volume Knob: Rotate to turn the radio on/off and adjust volume.

Channel Selector Knob: Rotate to select one of the 16 available channels.

PTT (Push-to-Talk) Button: Press and hold to transmit, release to receive.

Speaker/Microphone: Integrated for audio output and input.

Accessory Jack: For connecting the included headset.

Micro USB Charging Port: For direct charging using the provided cable.

Setup

1. Battery Installation and Charging

1. Ensure the radio is turned off.
2. Align the battery with the battery compartment on the back of the radio.
3. Gently push the battery into place until it clicks securely.
4. To charge, you have two options:
    - **Using the Charging Dock:** Place the radio into its dedicated charging dock. Connect the USB charging cable to the dock and a power source (USB adapter, computer USB port, power bank).
    - **Direct Micro USB Charging:** Plug the Micro USB end of the 2-in-1 charging cable directly into the Micro USB port on the side of the radio. Connect the other end to a power source.
5. The charging indicator light on the radio or dock will show charging status (typically red for charging, green for fully charged).
6. A full charge takes approximately 3-4 hours. The 1500 mAh battery provides extended operating time.





Image: Battery compartment and charging port details.



Image: Various charging methods for the Baofeng GT-22.

2. Attaching Accessories

- **Headset:** Plug the headset's 2-pin connector into the accessory jack on the side of the radio.
- **Lanyard:** Attach the lanyard to the designated loop on the radio for easy carrying.

Operating Instructions

1. Power On/Off and Volume Adjustment

- To turn on the radio, rotate the Power/Volume knob clockwise until you hear a click and the radio announces "Power On".
- To adjust the volume, continue rotating the Power/Volume knob.

- To turn off the radio, rotate the Power/Volume knob counter-clockwise until you hear a click and the radio announces "Power Off".

2. Channel Selection

- The GT-22 has 16 pre-programmed channels.
- Rotate the Channel Selector knob to choose your desired channel. The radio will announce the channel number.
- Ensure all radios you wish to communicate with are set to the same channel.

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 stop transmitting and return to receive mode.
- When receiving a transmission, the radio will automatically output the audio.

4. VOX Function (Hands-Free Operation)

The VOX (Voice Operated Exchange) function allows you to transmit without pressing the PTT button, enabling hands-free operation. This is particularly useful in noisy environments or when your hands are occupied.

1. Ensure the radio is turned off.
2. Press and hold both the side button (usually the monitor button) and the PTT button simultaneously.
3. While holding these buttons, turn on the radio using the Power/Volume knob.
4. You will hear an audible prompt, "VOX on," indicating the function is activated.
5. To deactivate VOX, repeat the same steps. You will hear "VOX off."

5. CTCSS and DCS Codes

The GT-22 supports CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) private codes. These codes help filter out unwanted transmissions from other radios not using the same code, providing clearer communication within your group. While the GT-22 comes pre-programmed, advanced users can program these codes using compatible software and a programming cable (sold separately) if custom configurations are desired.

6. Optimal Range and Communication Tips

The Baofeng GT-22 offers a range of up to 3-4 km under optimal conditions. Factors affecting range include:

- **Terrain:** Open, flat areas provide the best range. Obstacles like buildings, hills, and dense foliage can significantly reduce range.
- **Interference:** Electrical noise, other radio signals, and large metal structures can interfere with communication.
- **Battery Level:** A low battery can affect transmission power.

For best performance:

- Hold the radio vertically with the antenna pointing upwards.
- Avoid touching the antenna during transmission.
- Keep the radio away from large metal objects.

Maintenance

1. Battery Care

- Fully charge the battery before first use.
- Avoid overcharging or completely draining the battery, as this can reduce its lifespan.
- If the radio will not be used for an extended period, remove the battery and store it separately in a cool, dry place.

2. Cleaning

- Clean the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the charging contacts are clean and free of debris.

3. Storage

- Store the radio in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- Keep out of reach of children.

Troubleshooting

If you encounter issues with your Baofeng GT-22, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Radio does not power on.	Low or dead battery; incorrect battery installation.	Charge the battery; ensure battery is correctly installed.
Cannot transmit or receive.	Different channels; out of range; low battery; PTT button not pressed correctly.	Ensure radios are on the same channel; move closer; charge battery; press PTT firmly.
Poor audio quality or static.	Weak signal; interference; volume too low/high.	Move to a clearer area; adjust volume; check for obstructions.
VOX function not working.	VOX not activated; microphone too far.	Follow VOX activation steps; speak closer to the microphone.

If the problem persists after trying these solutions, please contact customer support.

Specifications

Feature	Detail
Model Number	GT-22
Brand	Baofeng
Frequency Standard	PMR446 (License-Free)
Number of Channels	16
Maximum Range	Up to 3-4 Kilometers (optimal conditions)
Battery Type	Lithium-ion
Battery Capacity	1500 mAh

Feature	Detail
Charging Interface	Micro USB
Included Components	2 Walkie-Talkies, 2 Headsets, 2 Batteries, 2 Charging Docks, 1 USB Cable, 2 Lanyards
Weight	Approx. 105g (per radio)
Dimensions	Approx. 13.5 cm (5.3") height, 5 cm (2.0") width (excluding antenna)



Image: Dimensions and weight of the Baofeng GT-22.

Warranty and Support

Baofeng products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or contact your point of purchase. Keep your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance beyond this manual, or inquiries about spare parts, please contact Baofeng customer service or the authorized dealer from whom you purchased the product. You can often find contact information on the manufacturer's official website or on your product packaging.

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