BAOFENG DM-1701

BAOFENG DM-1701 Digital Two-Way Radio User Manual

Model: DM-1701

1. Introduction

The BAOFENG DM-1701 is a versatile digital two-way radio designed for reliable communication. It supports both Digital Mobile Radio (DMR) and traditional analog modes, offering seamless transition between them. With a robust design and advanced features, it is suitable for various applications requiring long-range and clear communication.
Key features include dual-band operation (144-148MHz and 420-450MHz), up to 3000 memory channels, and a 2200mAh battery for extended use. The radio incorporates digital noise-canceling technology for clear audio and supports voice encryption for secure communications.

2. Safety Information

- Do not operate the radio in explosive atmospheres (e.g., flammable gases, dust particles, metallic powders).
- Do not disassemble or modify the radio. Repairs should only be performed by authorized personnel.
- Use only BAOFENG approved batteries and chargers to prevent damage or injury.
- Avoid exposing the radio to direct sunlight for prolonged periods or to extreme temperatures.
- Keep the radio away from medical devices to prevent interference.
- Maintain a safe distance from the antenna during transmission to minimize RF exposure.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- BAOFENG DM-1701 Portable Radio
- 2200mAh Original Li-ion Battery
- High Gain Antenna
- Belt Clip

- Sling
- Charger (Dock & Adapter)
- User's Manual
- 771 Antenna
- Earpiece

Figure 3.1: Contents included in the BAOFENG DM-1701 package.

4. Product Overview

Familiarize yourself with the main components and controls of your DM-1701 radio.

Figure 4.1: Labeled diagram of the BAOFENG DM-1701 radio components.

- **Antenna:** For transmitting and receiving signals.
- **Channel Knob/Power/Volume:** Rotates to select channels, turns clockwise to power on and increase volume, counter-clockwise to decrease volume and power off.
- **PTT (Push-To-Talk) Button:** Press and hold to transmit, release to receive.
- **SK1/SK2/SK3 (Side Keys):** Programmable function keys.
- **2pin K Jack:** For connecting external audio accessories like the included earpiece.
- **Loudspeaker:** For audio output.
- **Keypad:** For entering frequencies, channel numbers, and menu navigation.
- **Display:** Shows channel information, battery status, and menu options.

Figure 4.2: Detailed views of the radio's controls and ports.

5. Setup

5.1 Battery Installation

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 (if present) and slide the battery downwards.

Figure 5.1: BAOFENG DM-1701 battery and its specifications.

5.2 Antenna Attachment

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

5.3 Charging the Battery

1. Connect the AC adapter to the charging dock.
2. Plug the AC adapter into a power outlet.
3. Place the radio (with battery installed) or the battery pack alone into the charging dock.
4. The charging indicator light will show the charging status (e.g., red for charging, green for fully charged).

6. Operation

6.1 Power On/Off and Volume Adjustment

Rotate the Channel Knob/Power/Volume knob clockwise to power on the radio. Continue rotating clockwise to increase the volume. Rotate counter-clockwise to decrease volume and power off the radio.

6.2 Channel Selection

Rotate the Channel Knob to select a desired channel. The display will show the current channel number and frequency. The DM-1701 supports up to 3000 memory channels, allowing for extensive pre-programmed communication options.

6.3 Transmitting and Receiving

1. To transmit, press and hold the PTT (Push-To-Talk) button on the side of the radio. Speak clearly into the microphone.
2. Release the PTT button to stop transmitting and return to receive mode.
3. Ensure the channel is clear before transmitting to avoid interference.

6.4 Digital and Analog Modes

The DM-1701 operates in both DMR digital and traditional analog modes. The radio can be configured to switch between these modes based on the selected channel or user settings. Digital mode offers clearer audio and enhanced features like voice encryption and individual/group calls.

6.5 VOX Function

The Voice Operated Exchange (VOX) function allows for hands-free transmission. When VOX is enabled, the radio will automatically transmit when it detects your voice, eliminating the need to press the PTT button. This feature can be configured through the radio's menu.

6.6 Call Functions (Digital Mode)

- **Private Call:** Direct communication with a specific radio user.
- **Group Call:** Communication with a predefined group of radio users.
- **All Call:** Broadcast message to all radios within range on the current channel.

7. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the radio's surface. Do not use harsh chemicals or solvents.
- **Battery Care:**
  - Charge the battery fully before initial use.
  - Do not overcharge or deep discharge the battery.
  - Store the battery in a cool, dry place when not in use for extended periods.
- **Antenna:** Regularly check the antenna for damage. A damaged antenna can affect performance.
- **Storage:** When storing the radio for a long time, remove the battery and store it separately.

8. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Battery is low or not installed correctly.	Charge the battery or re-install it securely.

Problem	Possible Cause	Solution
Cannot transmit or receive.	Incorrect channel/frequency, out of range, or antenna issue.	Verify channel settings, move closer to other radios, check antenna connection.
Poor audio quality.	Low signal strength, interference, or volume too low.	Adjust volume, move to a clearer area, check for obstructions.
Battery drains quickly.	Frequent transmission, high power setting, or aging battery.	Reduce transmission time, use lower power if possible, consider replacing battery if old.

9. Specifications

Feature	Detail
Brand	BAOFENG
Model Number	DM-1701 (GD-77)
Frequency Range	144-148MHz (VHF), 420-450MHz (UHF)
Memory Channels	Up to 3000
Output Power	1W to 5W
Operating Voltage	DC 7.4V
Battery Capacity	2200mAh Li-ion
Dimensions (excluding antenna)	5.24in x 2.44in x 1.5in (13.3cm x 6.2cm x 3.8cm)
Weight (with battery & antenna)	Approx. 21.51 ounces (609.8 grams)
Operating Temperature	-30℃ to +60℃
Vocoder Type	AMBE+2
Jack Type	2pin K jack
Water Resistance Level	Not Water Resistant

10. Warranty and Support

The BAOFENG DM-1701 radio comes with a **1-year warranty** provided through Shiqun Electronics Co., Ltd. This warranty covers manufacturing defects and ensures the product meets its specified performance.
For warranty claims, technical support, or inquiries regarding firmware updates (e.g., CPS software for mass editing), please contact Shiqun Electronics Co., Ltd. directly. Contact information can typically be found on their official website or through your purchase platform.
If you require the GD77 firmware to be pre-installed, please reach out to the seller at the time of purchase.

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