

BF-H6 User Manual

To users

Thank you for your favor with our products.

This product is a high-power radio, If you are long time transmit will cause the heat of this machine is a normal phenomenon, In the case of sufficient distance recommended to use Middle (Middle power) or Low (Low power) to transmit!

Thanks for using!

LCD 大屏幕显示 LCD Screen

高中低三档功率可选 High/Medium/Low Power are optional

DTMF 编码 DTMF Encoded

U/V 全段接收 UHF/VHF Full frequency receive

128 组存储信道 Up to 128 memory channels.

中转 1750HZ 转发信令 1750 Hz TONE for access to repeaters

ANI 身份码发送 ANI code

数字/模拟亚音自动扫描 CTCSS/DCS to Automatic Scan

快捷菜单操作模式 Shortcut menu operation mode

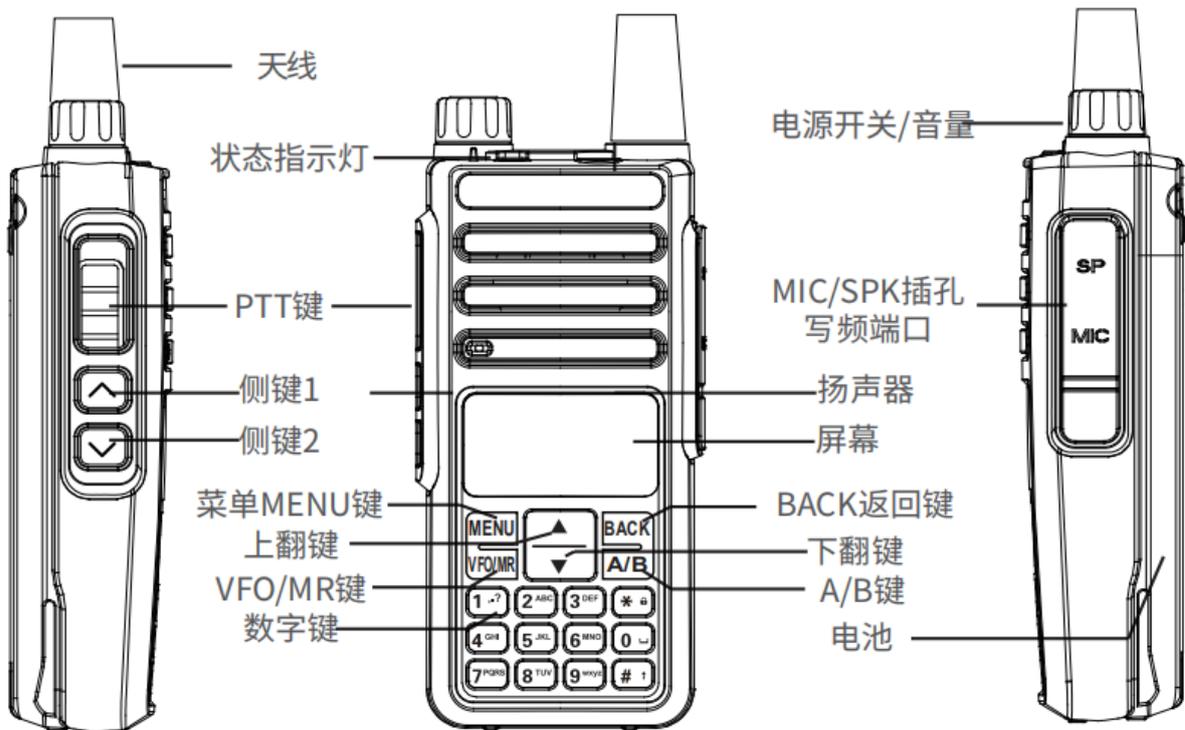
有线复制功能 Wired Clone

紧急报警呼叫功能 Emergency alarm call function

中英文语音报号 Chinese/English switch over

熟悉本机 Familiar with this Product

一. 熟悉本机



■ 熟悉本机（插图说明）

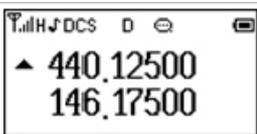
| | |
|-----------------------|---|
| Antenna | A helical antenna for receiving and transmitting signals. |
| Battery Push-button | This is for fixing the battery |
| Battery Pack | This is to power the radio |
| Speaker | This is for the radio output voice |
| Microphone | This is putting voice into the radio |
| External interface | This is for external earphones; Or external write frequency line, can use PC write frequency software to write frequency operation and program upgrade. |
| Strap buckle | The radio body can be clamped on the belt for easy carrying. |
| 【Power/Volume】Knob | Rotate the knob clockwise to turn the radio on or to increase the volume, and rotate the knob counter-clockwise to turn the radio off or to decrease the volume. |
| 【SOS】button | Long press to open the alarm function, and then press this button to cancel the alarm function. |
| 【PTT】Transmit button | After press this key, the radio is in the transmitting status and speaks into the microphone to call the other party. After releasing this key, the radio is in the receiving status. |
| 【MENU】button | Press it to activate the menu mode, enter the menu and press this button to select menu items. In power off status, Press and hold this button to switch channel mode or frequency mode. |
| 【▲】/【▼】UP/DOWN button | In frequency mode, change the current frequency; |

| | |
|------------------------------|---|
| | <p>In channel mode, switch channels up and down;</p> <p>In Menu status, change to set the menu items and menu values, press more than 2 seconds to quickly forward or backward search.</p> <p>In scanning status, Change the scanning direction.</p> |
| [Exit] and A/B switch button | In the input status, clear the input information; In standby mode, press this button to switch A/B, Switch 65-75/76-108mhz frequency in the FM mode. |
| *,#, 0-9 number buttons | 0-9 are numeric keys used for input frequency, channel number, menu item and menu value, * key for channel, frequency, CTCSS/DCS and FM broadcasting station scanning, Long press the # key to lock or unlock the keyboard, Press [PTT] button to transmit, and then press the number button to transmit the corresponding DTMF number. |

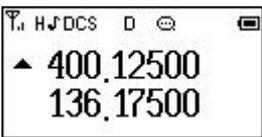
【PTT】键（发射按键） 【PTT】 Key（Transmit Key）

Transmit and receive conversion key: when transmitting, press this key and speak into the microphone; Release this key when receiving.

1、Transmit Interface



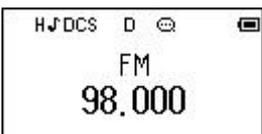
2、Receive Interface (Triangle icon flicker)



侧键 1（CALL 键） Side key 1（CALL Key）

Press the button to turn on the FM radio, and then press the button to turn off the FM radio.

FM Radio Interface



侧键 2（MONI 键） Side key 2 (MONI Key)

Long press this key to monitor function. In channel mode, short press to temporarily switch high, medium and low transmission power. In frequency mode, short press can change high, medium and low transmission power.

橙色键 Orange Key

Long press this button to turn on the alarm function, short press again to close.

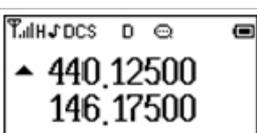
LCD 显示屏 LCD Screen

For display all working status of the Radio.

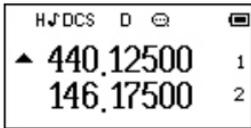
VFO/MR 键

For frequency mode and channel mode switching

1、Standby for frequency mode



2、Standby for channel mode

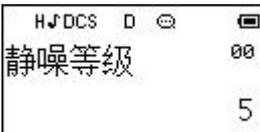


功能键盘 Function of the keyboard

Menu select/confirm key: [MENU]

Use this key to activate menu mode and select items in the menu mode.

MENU interface



“▲” UP Key(Long press for more than 2 seconds to move forward quickly)

“▼” DOWN Key(Long press for more than 2 seconds to back up quickly)

[BACK]/ [EXIT]: Exit/clear key (In the input status, clear the input information)

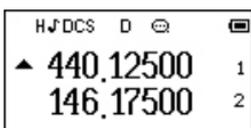
数字键盘 Numeric keypad

For enter information into the programming menu of a radio; in the non-standard CTCSS editing status, the non-standard CTCSS can be directly input, and the corresponding DTMF encoding will be issued when the number key is pressed in the transmit status.

[*] Key

Press this key to invert the receiving and transmitting frequencies;

Press for more than 2 seconds to lock or unlock the keyboard.



[#] Key

Press for more than 2 seconds to turn on frequency or channel scanning

In the FM radio Mode, press the button to search FM station automatically.

[0]Key

Press for more than 2 seconds to display the current battery voltage in standby mode.

Power / Volume Knob

To turn on the power, turn the [Power Switch / Volume Control] knob clockwise until you hear a "click" sound and a short beep sounds. To turn off the radio, turn the knob counterclockwise until you hear a click. (English version supports channel number broadcast); Turn clockwise to increase volume and vice versa.

状态指示灯 Led indicator lamp

Transmit ---- Red light

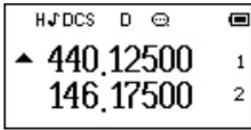
Receive----Green light

外部接口 External interface

This is for external earphones; Or external write frequency line, can use PC write frequency software to write frequency operation and program upgrade.

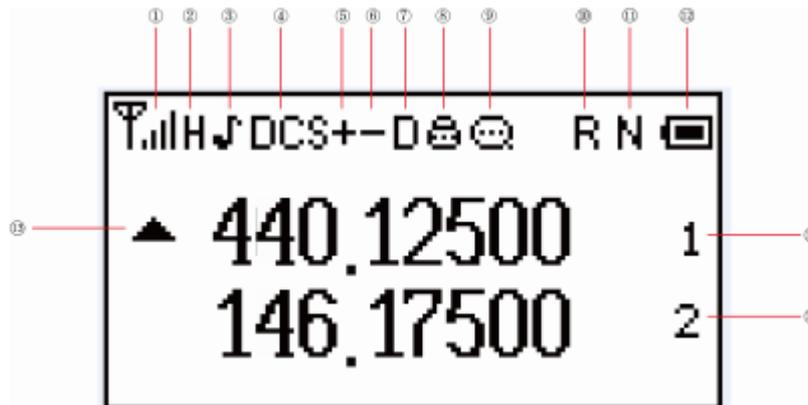
DTMF

After the DTMF is turned on, press the PTT + Side 2 will send out TONE.



点阵屏界面显示 LCD Icons

The LCD screen is used to display all the working status of the two-way radio. The corresponding function icons are displayed on the screen during operation. The screen allows you to know the meaning of the icons and how to set the functions more quickly.



界面图标说明 Description of LCD Icons

| No. | icon | Description |
|-----|-----------------|---|
| 1 | 📶 | The channel signal indication |
| 2 | H | The channel transmits at high power; |
| | M | The channel transmits at medium power |
| | L | The channel transmits at low power |
| 3 | 📞 | When the DTMF is set to DT-ST/DT+ANI/ANI-ST, the symbol appears |
| 4 | DCS | The current is CDCSS |
| | CT | The current is CTCSS |
| 5 | + | The current transmission frequency is the reception frequency plus a frequency bias(Set in menu 24th) |
| 6 | - | The current transmission frequency is the reception frequency minus a frequency bias(Set in menu 24th) |
| 7 | D | Has been set to dual-band double-waiting function, and allows waiting on two frequency bands displayed on the screen at the same time |
| 8 | 🔒 | The keyboard lock is locked; Press the [*] to unlock |
| 9 | 🗣️ | The VOX has been turned on |
| 10 | R | In channel or frequency mode the invert the receiving and transmitting frequencies |
| 11 | N | The radio work in narrowband mode |
| 12 | 🔋 | The more bars, the more battery power, The icon flashes when the intercom is disabled |
| 13 | ▲▼ | A/ B band pointer |
| 14 | Arabic numerals | In channel mode, the current channel number for A |

| | | |
|----|-----------------|---|
| 15 | Arabic numerals | In channel mode, the current channel number for B |
|----|-----------------|---|

■用前准备 Preparation before use

充电 Charging

Note: Be sure to ensure that the product is off when charging. Battery into the charger may be charging red flashing constantly flashing, this is the battery power is too low, the charger to protect the battery pre-charge process, is a normal phenomenon, Generally continue for 30 seconds to turn the red light of the normal status of charge

Please charge the battery with the charger specified by our company. The indicator light of the charger shows the charging status.

电池充电示意图:



1. Plug the power adapter into a power outlet;
2. Plug the other end of the power adapter into the socket on the back of the charging cradle;
3. Insert the battery or the battery-equipped product into the charging cradle correctly; the indicator light on the charging cradle shows the charging status. When the indicator light is red, it indicates the start of charging. When the indicator turns green, the charging is completed. Below is a detailed char.

| Indicator display | Current charge status |
|-------------------|---------------------------|
| Red light flashes | Battery power is too low |
| Red light | In charging |
| Green light | The charging is completed |

Note:

- For best battery performance, charge for a minimum of 4 hours on first charge.

■电池信息 Battery information

●The first use of the battery

Since the battery is not fully charged at the factory, please charge the new battery before use. Under normal circumstances, the battery when used for the first time, need to charge 4 hours, lithium-ion battery charging using slow charge or fast charge can be performed when charging. It is recommended that the new battery be operated as above for the first three uses. When you find the battery power is low, you need to charge the battery.

●Suitable battery type

Please use the specified battery for charging; use of other batteries may cause explosion, resulting in human injury.

● Battery safety attention

1. Do not allow metal contacts (including coins, keys, jewelry, or other conductive metal) to be touched by the battery contacts or pole pieces. Otherwise, the battery may short circuit, discharge, heat or leak, which may result in damage to the item or personal injury. Therefore, be careful when handling any battery.
2. Do not short-circuit the battery terminals or discard the battery in a fire. Do not disassemble the battery pack. When the battery is discarded, please put into a dedicated battery recycling box.

● Battery normal operation instructions

- ★ Please charge the battery indoors, battery charging at room temperature best.
- ★ Under normal circumstances, the charger indicator from red to green when the battery is fully charged, at this time the battery can be removed.
- ★ You can charge when Battery installed in the walkie-talkie, but when charging is best to turn off the walkie talkie, to ensure that the battery is fully charged.
- ★ Please do not charge the battery when the battery power is not used up (after the battery is exhausted, the voice prompt alarm will be given), which will shorten the service life of the battery.
- ★ Do not put a fully charged battery back on the charger to "power up" again, as this operation significantly reduces the cycle life of the battery.

● Extend battery life

- ★ Battery performance will reduce below $-20\text{ }^{\circ}\text{C}$ temperature conditions. Prepare back-up batteries for use in colder weather. Please do not throw away cold batteries that cannot work. These batteries may be used at room temperature.
- ★ Dusting the battery contacts may affect the battery life. Please wipe the contacts with a clean, dry cloth before inserting the batteries into the walkie-talkie.

● Battery storage needs to know

1. Since the battery will have a self-discharge phenomenon, the battery when not in use for a long time, please fully charge the battery and then stored to avoid over-discharge of its battery to damage the battery.
2. When the battery is in storage, remove the battery to recharge when stored about 6 months. To avoid over-discharge of electrolyte affect battery capacity.
3. Pay attention to the temperature and humidity of the battery storage environment. Store the battery at room temperature in a cool, dry place to minimize self-discharge of the battery.

电池电压、电量指示 Battery Voltage & Power Indication

Long press the **【0】** key for display battery voltage,

The top right of the screen shows the current battery power icon is as follows:

| Icon | Battery power |
|---|---------------|
|  | High |
|  | Medium |
|  | Low |
|  | Insufficient |

■基本操作 Basic Operation

开机与关机 Power on/off

To turn on the power, turn the **【Power Switch / Volume Control】** knob clockwise until you hear a "click" sound and a short beep sounds. To turn off the radio, turn the knob counterclockwise until you hear a click.

调节音量 Adjusting Volume

After turning on, turn the [Power switch / volume control] knob clockwise to increase the reception volume, and turn counterclockwise to reduce the reception volume.

双段模式切换 Dual Standby Mode to Switch

Dual band mode can be selected through the menu; the path is as follows:

1. Press **【MENU】** to enter menu mode.
2. Press **【▲】 / 【▼】** to set, then press **【MENU】** to select.
3. Press **【▲】 / 【▼】** to the radio setting, then press **【MENU】** to select.
4. Press **【▲】 / 【▼】** to "Dual Standby", then press **【MENU】** to select.
5. Press **【▲】 / 【▼】** to select the required option (Off/On).
6. Press **【MENU】** key to confirm and return to the previous menu.

频率模式(VFO) Frequency Mode(VFO)

VFO mode is the basic mode for changing the operating frequency. In the standby interface, press [VFO/MR] to switch to VFO mode, and press **【▲】 / 【▼】** to increase or decrease the frequency.

快捷输入频率 Quick Frequency Input

In addition to pressing **【▲】 / 【▼】**, you can also input the frequency directly. If the required operating frequency is far from the current frequency, you can use the keypad to directly input the frequency.

- Press [VFO/MR] to switch to VFO mode.

* The frequency must be entered directly in VFO mode.

- Press the number buttons ([0] to [9]) to enter the desired frequency (The first three decimal places are MHZ and the last five decimal places are KHZ) .
- After entering the frequency manually, press and hold the [PTT] button to call the contact of current frequency.

Menu list

| No | Level 1 menu | | Level 2 menu | | Description of settings |
|----|--------------|------|------------------------|----|--|
| | English | 中文 | English | 中文 | |
| 0 | Squelch | 静噪等级 | 0, ..., 9 | | Squelch level, the lower the level is easy to interfere; the higher the level of sensitivity is worse, it is best to set the middle. |
| 1 | Step | 步进频率 | 2.5KHz | | In frequency mode, when the UP and DOWN keys are pressed, the step value of frequency is changed. |
| | | | 5.0KHz | | |
| | | | 6.25KHz | | |
| | | | 10.00KHz | | |
| | | | 12.50KHz | | |
| | | | 20.0KHz | | |
| | | | 25.0KHz | | |
| 2 | Tx Power | 发射功率 | High | | The radio transmits at high power. |
| | | | Middle | | The radio transmits at middle power. |
| | | | Low | | The radio transmits at low power. |
| 3 | Power save | 省电模式 | OFF | | Turn off power saving mode. |
| | | | ON | | Turn on power saving mode. |
| 4 | Vox Level | 声控等级 | OFF | | Turn off VOX. |
| | | | 1, 2, ..., 10 | | VOX Level |
| 5 | Bandwidth | 信道带宽 | Narrow | | The radio work in narrowband mode. |
| 6 | Backlight | 自动背光 | Bright | | The background light is on all the time. |
| | | | 1Sec, 2Sec, ..., 10Sec | | Turn off the backlight automatically when the time is up. |
| 7 | Dual Standby | 双频守候 | OFF | | Turn off dual standby mode. |
| | | | ON | | Turn on dual standby mode. |
| 8 | Beep | 提示音 | OFF | | Turn off beep prompt |

| | | | | | |
|----|--------------|----------|----------------------|------|---|
| | Prompt | | ON | | Turn on beep prompt |
| 9 | Tx over time | 发射超时 | OFF | | Press and hold the PTT key to keep transmits. |
| | | | 15, 30, ...600 | | The number goes from 15 to 600. In 15 steps, Indicates the maximum transmit time by pressing the PTT key |
| 10 | Rx DCS | 接收数字哑音 | OFF | | DCS is not set |
| | | | D023N, ..., D754I | | Standard sequence of DCS. |
| 11 | Rx CTCSS | 接收模拟哑音 | OFF | 关闭 | CTCSS is not set |
| | | | 67.0HZ, ..., 254.1HZ | | Standard sequence of CTCSS. In Menu Mode, It can be typed directly from the keyboard (standard or non-standard). |
| 12 | Tx DCS | 发射数字哑音 | OFF | 关闭 | DCS is not set |
| | | | D023N, ..., D754I | | Standard sequence of DCS |
| 13 | Tx CTCSS | 发射模拟哑音 | OFF | 关闭 | CTCSS is not set |
| | | | 67.0HZ, ..., 254.1HZ | | Standard sequence of CTCSS. In Menu Mode, It can be typed directly from the keyboard (standard or non-standard). |
| 14 | VOICE | 提示语音 | OFF | | Turn off voice prompt |
| | | | ON | | Turn on voice prompt |
| 15 | DTMFST | 侧音开关 | OFF | | |
| | | | DT-ST | | |
| | | | ANI-ST | | |
| | | | DT+ANI | | |
| 16 | S-CODE | 可选信令 | 1, 2, ..., 15 | | Signal code(only could be set by PC software) |
| 17 | Scan Mode | 扫描恢复方式 | TO | 时间 | Time mode scan |
| | | | CO | 载波 | Carrier mode scan |
| | | | SE | 搜索 | Search mode scan |
| 18 | PTT-ID | PTT 按键发码 | OFF | 关闭 | Do not send code when PTT is pressed |
| | | | BOT | 按下发码 | Press PTT to send code; (only could be set by PC software) |

| | | | | | |
|----|---------------|---------|-----------|------|---|
| | | | EOT | 松开发码 | Release PTT to send code |
| | | | BOTH | 同时发码 | Send code when it is pressed or released the PTT. |
| 19 | MDF-A | A 段显示方式 | Frequency | 信道频率 | In channel mode, the A channel is display channel frequency. |
| | | | Name | 信道名称 | In channel mode, the A channel is display channel name. (only could be set by PC software) |
| 20 | MDF-B | B 段显示方式 | Frequency | | In channel mode, the B channel is display channel frequency. |
| | | | Name | | In channel mode, the B channel is display channel name. (only could be set by PC software) |
| 21 | Busy Lockout | 遇忙禁发 | OFF | | Transmit when the channel is occupied |
| | | | ON | | The channel is occupied and transmission is prohibited |
| 22 | Key Auto Lock | 自动键盘锁 | OFF | | Turn off keyboard lock |
| | | | ON | | Turn on keyboard lock |
| 23 | Direction | 频差方向 | None | 无 | In frequency mode, there is no frequency difference between transmitting frequency and receiving frequency. |
| | | | Plus | 正向 | In frequency mode, the transmitting frequency is equal to the receiving frequency plus the frequency difference. |
| | | | Minus | 反向 | In frequency mode, the transmitting frequency is equal to the receiving frequency minus the frequency difference. |

| | | | | | |
|----|------------|---------|----------------------|----|---|
| 24 | Offset | 频差频率 | 00.000, ..., 99.998 | | In frequency mode, the difference between the transmitted and received frequencies. |
| 25 | Memory | 信道存储 | 000, ..., 127 | | When save a channel, indicates the channel number to be saved. If a number is preceded by "CH-", the channel already has channel parameters. |
| 26 | Delete | 信道删除 | 000, ..., 127 | | Deletes channel parameters for the specified channel, If no "CH-" indicates that the channel has no parameters, the operation is invalid. |
| 27 | Alarm Mode | 报警模式 | On site | | |
| | | | Send sound | | |
| | | | Send code | | |
| 28 | Scan CTCSS | 扫描模拟亚音 | 67.0HZ, ..., 254.1HZ | | Automatic stop after receiving the CTCSS signal |
| 29 | Scan DCS | 扫描数字亚音 | D023N, ..., D754I | | Automatic stop after receiving the DCS signal |
| 30 | TAIL | 尾音消除 | OFF | 关闭 | After releases the PTT, the radio will not send the code. Usually, when passing through the repeater, the radio will make noise to confirm whether the signal of the radio is transferred |
| | | | ON | 开启 | When the PTT is released, the radio sends the code, and the receiver makes an instantaneous noise |
| 31 | RP_STE | 过中继尾音消除 | OFF | 关闭 | When transmitting across the repeater and retransmitting, after the transmitter |
| | | | 1s, 2s, 3s... 10s | | |

| | | | | | |
|----|--------------|---------|--------------------------------|------|---|
| | | | | | releases the PTT key, the radio enters receiving status. Due to the delay of repeater, the instant signal transmitted by the repeater can be received. The value of the menu item shall be adjusted to ensure that no noise of this radio is generated when transmitting across the repeater, so as to confirm whether the relay is operating. The menu item shall be set OFF. |
| 32 | RPT-RL | 过中继尾音检测 | OFF | 关闭 | When the signal is transmitted across the repeater and retransmitted by it, in order to confirm whether the repeater has retransmitted the signal for this radio, the delay time of the repeater stopping transmitting shall be utilized to confirm that the signal has been retransmitted. The menu item is used to adjust the time of the noise. If the noise isn't needed, please set it as OFF. |
| | | | 1s, 2s, 3s... 10s | | |
| 33 | PROGER | 发射结束提示音 | OFF | 关闭 | Turn off the end of call prompt tone |
| | | | ON | 开启 | Turn on the end of call prompt tone |
| 34 | R-TONE | TONE 音 | 1000hz, 1450hz, 1750hz, 2100hz | | |
| 35 | Power On Msg | 开机显示 | Preset Logo | 预设图标 | |
| | | | Preset Msg | 预设信息 | |

| | | | | | |
|----|----------|--------|---------|---------|--------------------------------|
| | | | Voltage | 电池电压 | |
| 36 | Language | 语言选择 | 中文 | 中文 | |
| | | | English | English | |
| 37 | Reset | 恢复出厂设置 | VFO | 频率模式 | Initialize of Menu |
| | | | ALL | 全部 | Initialize of Menu and channel |

◆发射DTMF Transmit DTMF

Press and hold the **【PTT】** key and press the corresponding number key to launch the corresponding DTMF number

◆声控发射 (VOX)

After activating this function, if the volume level of speech reaches the level selected by the radio, do not press the [PTT] button, the radio can also be automatically transmit.

Operate:

- 1) Press **【MENU】** to enter menu mode.
- 2) Press **【▲】 / 【▼】** to select “VOX” , Or enter the number 4 directly into the menu item.
- 3) Press **【MENU】** to select, then the radio voice prompts “VOX”, Press **【▲】 / 【▼】** to select 1~10.
- 4) Press **【MENU】** the radio voice prompts “confirm” to Save and return to the previous menu.
- 5) Repeat the above operation, select OFF and turn OFF the VOX.

◆键盘锁定 Keypad Lock & Unlock

If the keypad isn't needed, you can lock into prevent misuse. You can lock or unlock the keypad in the following ways:

- 1) Press **【MENU】** to enter menu mode.
- 2) Press **【▲】 / 【▼】** to select “Key Auto Lock” , Or enter the number 22 directly into the menu item.
- 3) Press **【MENU】** to select, then Press **【▲】 / 【▼】** to select “ON” .
- 4) Press **【MENU】** the radio voice prompts “confirm” to Save and return to the previous menu.
- 5) Repeat the above operation, select OFF and turn OFF the automatic keyboard lock.

The manual operation locks or unlocks the keypad in the following ways:

- ① In standby mode, long press **【*】** for more than 2s, and the keyboard lock function will be enabled (voice prompt "lock").
- ② Repeat the above operation, turn off Keyboard lock function (voice prompt "unlock").



After the automatic keyboard lock function is turned on, the radio will automatically lock the keyboard without any keyboard operation for 10 seconds

◆双频守候 Dual Standby

When in dual standby mode, the radio can receive the A or B channel. The operation is as follows:

- 1) Press **【MENU】** to enter menu mode.

2) Press **【▲】** / **【▼】** to select “Dual Standby” , Or enter the number 7 directly into the menu item.

3) Press **【MENU】** to select, then Press **【▲】** / **【▼】** to select “ON” .

4) Press **【MENU】** the radio voice prompts “confirm” to Save and return to the previous menu.

-  Repeat the above operation, select OFF and turn OFF the Dual Standby function.
-  In dual standby mode, the radio is in the scanning status of main and secondary channels. Even if the power saving function is enabled, the power saving function is still invalid, and the standby time of the interphone will be shortened.

◆信道删除 Channel Deleted

1) Press **【MENU】** to enter menu mode.

2) Press **【▲】** / **【▼】** to select “Delete” , Or enter the number 7 directly into the menu item.

3) Press **【MENU】** to select, then the radio voice prompts “Delete Channel”

4) Press **【▲】** or **【▼】** to select the channel to delete.

·If the numeric prefix displays the character "CH-" it indicates that the channel number already has channel parameters, which can be deleted

·If the number prefix does not have the display character "CH-", it means that the channel number has no parameters, does not need to be deleted, and can be stored.

5) Press **【MENU】** the radio voice prompts “confirm” to Save and return to the previous menu.

·If the channel has no parameters, press [MENU] key to directly return to the previous menu (no voice prompt).

◆信道存储 Memory Channel

Example: The channel parameters are as follows and are stored in the channel number 001

- ① Rx Frequency: 440.5 MHz
- ② Tx Frequency: 430.5 MHz
- ③ Rx DCS/CTCSS: D031N
- ④ Tx DCS/CTCSS: D031N
- ⑤ Tx Power: High
- ⑥ Bandwidth: narrow band

Operating Steps:

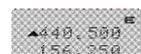
1. Press the [VFO/MR] key to switch to VFO mode and the screen will display



2. In frequency mode, press [A/B] to make the frequency pointer symbol point to A



3. Press the number key 4, 4, 0, 5, 0, 0 successively, and the frequency to 440.500MHz to display on the screen



4. Power Settings: Press the [MENU] → Keyboard [2] → [MENU] → **▲** or **▼** to select 'HIGH' → [MENU],
5. Bandwidth: Press the Keyboard [5] → [MENU] → **▲** or **▼** to select 'NAWR' → [MENU],
6. Rx DCS: Press the Keyboard [1] and [0] → [MENU] → **▲** or **▼** to select 'D031N' → [MENU],
 ·Setting the receive CDCSS, and automatically turn off the receive CTCSS; similarly, setting the receive CTCSS will automatically turn off receive CDCSS.

To set CTCSS: Press the [MENU] → Keyboard [1] and [1] → [MENU] → **▲** or **▼** to select CTCSS → [MENU]。

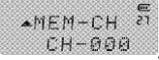
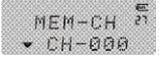
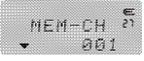
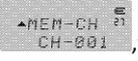
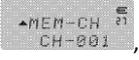
7. Tx DCS: Press the Keyboard [1] and [0] → [MENU] → **▲** or **▼** to select 'D031N' → [MENU]
 ·Setting the transmit CDCSS, and automatically turn off the transmit CTCSS; similarly, setting the transmit CTCSS will automatically turn off transmit CDCSS.

To set CTCSS: Press the [MENU] → Keyboard [1] and [3] → [MENU] → **▲** or **▼** to select CTCSS → [MENU]

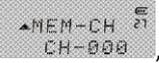
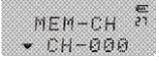
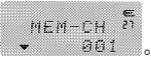
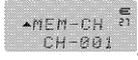
·When setting up CTCSS, it can be entered numerically through the keyboard (non-standard and standard). If you select by the **▲** or **▼** keys, you can only select standard CTCSS.

8. PTT-ID: Press the Keyboard [1] and [8] → [MENU] → **▲** or **▼** to select 'OFF' → [MENU],

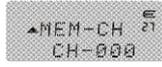
9. Channel saves settings for receiving and transmitting at the same frequency:

- 1) Press the Keyboard [2] and [5] to display on the screen ,
- 2) Press the **▲** or **▼**, then the radio voice prompts "Memory Channel", the screen display ,
- 3) Press the **▲** / **▼** to select empty channel, the screen display ,
- 4) Press the **▲** or **▼**, then the radio voice prompts "Receive Memory", the screen display , then press the **▲** or **▼**, then the radio voice prompts "Memory Channel".
- 5) Press the **▲** or **▼**, then the radio voice prompts "transmit Memory", the screen display ,
- 6) Press [BACK] to frequency mode.

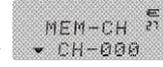
10. Channel saves settings for receiving and transmitting at different frequencies:

- 1) Press the [MENU] → Keyboard [2] and [5], the screen display ,
- 2) Press the **▲** or **▼**, then the radio voice prompts "Memory Channel", the screen display ,
- 3) Press the **▲** / **▼** to select empty channel, the screen display ,
- 4) Press the **▲** or **▼**, then the radio voice prompts "Receive Memory", the screen display ,
- 5) Press [BACK] to frequency mode.
- 6) Follow step 3 and enter the desired transmit frequency;

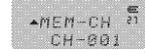
7) Press the [MENU] → Keyboard [2] and [5], the screen display



8) press the 【MENU】, then the radio voice prompts “Memory Channel”, the screen display



9) Press the 【MENU】, then the radio voice prompts “transmit Memory”, the screen display



10) Press [BACK] to frequency mode.

◆亚音扫描 CTCSS/CDCSS Scan

Before setting CTCSS/CDCSS scanning, set the receiving frequency to ensure that the signal can be received at the receiving frequency, and cancel the dual standby function, and make the radio work in the frequency mode.

1) 扫描模拟亚音 CTCSS Scan

- A. Press the number key to enter the correct frequency.
- B. Press 【MENU】 to enter menu mode.
- C. Press 【▲】 / 【▼】 to select “Scan CTCSS” , Or enter the number 28 directly into the menu item.
- D. Press 【MENU】 key.

The CTCSS changes indicate that the machine has entered the CTCSS scanning status, then CTCSS changes rapidly according to the standard sequence. When the radio finds that the CTCSS in the receiving signal is consistent with one of the standard sets of CTCSS, the radio stops scanning and receives the speech.

- E. Press [BACK] to exit.

2) 扫描数字亚音 CDCSS Scan

- A. Press the number key to enter the correct frequency.
- B. Press 【MENU】 to enter menu mode.
- C. Press 【▲】 / 【▼】 to select “Scan DCS” , Or enter the number 29 directly into the menu item.
- D. Press 【MENU】 key.

The CDCSS changes indicate that the machine has entered the CDCSS scanning status, then CDCSS changes rapidly according to the standard sequence. When the radio finds that the CDCSS in the receiving signal is consistent with one of the standard sets of CDCSS, the radio stops scanning and receives the speech.

- E. Press [BACK] to exit.

◆模拟亚音频(CTCSS)/数字亚音频(CDCSS) CTCSS/CDCSS

CTCSS/CDCSS is mainly used to avoid receiving unrelated calls on the same frequency. If CTCSS/CDCSS is set, only calls with the same tone signal set in the channel can be received within the effective communication range. However, if CTCSS/CDCSS signaling is not set up, all calls on the same channel in the valid communication range can be heard.

The CTCSS/CDCSS can be set by write software or manually. You can set the parameters in menu 10, 11, 12 and 13.

- A. CTCSS (51 Group)

67.0, 69.3, 71.9, 74.4, 77.0, 79.7, 82.5, 85.4, 88.5, 91.5, 94.8, 97.4, 100.0, 103.5, 107.2, 110.9, 114.8, 118.8, 123.0,

127.3, 131.8, 136.5, 141.3, 146.2, 151.4, 156.7, 159.8, 162.2, 165.5, 167.9, 171.3, 173.8, 177.3, 179.9, 183.5, 186.2, 189.9, 192.8, 196.6, 199.5, 203.5, 206.5, 210.7, 218.1, 225.7, 229.1, 233.6, 241.8, 250.3, 254.1。

B. CDS (210 Group)

D023N, D025N, D026N, D031N, D032N, D036N, D043N, D047N, D051N, D053N, D054N, D065N, D071N, D072N, D073N, D074N, D114N, D115N, D116N, D122N, D125N, D131N, D132N, D134N, D143N, D145N, D152N, D155N, D156N, D162N, D165N, D172N, D174N, D205N, D212N, D223N, D225N, D226N, D243N, D244N, D245N, D246N, D251N, D252N, D255N, D261N, D263N, D265N, D266N, D271N, D274N, D306N, D311N, D315N, D325N, D331N, D332N, D343N, D346N, D351N, D356N, D364N, D365N, D371N, D411N, D412N, D413N, D423N, D431N, D432N, D445N, D446N, D452N, D454N, D455N, D462N, D464N, D465N, D466N, D503N, D506N, D516N, D523N, D526N, D532N, D546N, D565N, D606N, D612N, D624N, D627N, D631N, D632N, D645N, D654N, D662N, D664N, D703N, D712N, D723N, D731N, D732N, D734N, D743N, D754N

D023I, D025I, D026I, D031I, D032I, D036I, D043I, D047I, D051I, D053I, D054I, D065I, D071I, D072I, D073I, D074I, D114I, D115I, D116I, D122I, D125I, D131I, D132I, D134I, D143I, D145I, D152I, D155I, D156I, D162I, D165I, D172I, D174I, D205I, D212I, D223I, D225I, D226I, D243I, D244I, D245I, D246I, D251I, D252I, D255I, D261I, D263I, D265I, D266I, D271I, D274I, D306I, D311I, D315I, D325I, D331I, D332I, D343I, D346I, D351I, D356I, D364I, D365I, D371I, D411I, D412I, D413I, D423I, D431I, D432I, D445I, D446I, D452I, D454I, D455I, D462I, D464I, D465I, D466I, D503I, D506I, D516I, D523I, D526I, D532I, D546I, D565I, D606I, D612I, D624I, D627I, D631I, D632I, D645I, D654I, D662I, D664I, D703I, D712I, D723I, D731I, D732I, D734I, D743I, D754I

■故障处理指南 Troubleshooting Guide

| Problem | Reason | Solution |
|--|--|--|
| The radio doesn't start. | The battery doesn't be installed correctly. | Remove and re-install the battery. |
| | The battery runs out. | Charging or change a new battery. |
| | The battery is poor contact causing by damaged or dirty. | Clearing the contact. Please get contact with our distributor to repair, if you cannot solve it. |
| The sound is small/ intermittent, or on sound when receiving the signal. | Battery voltage is low. | Charging or change a new battery. |
| | The voice is too small. | Turn up the sound. |
| | The antenna is loose. | Turn off the radio and re-install the antenna. |
| | The speaker is damaged or dirty. | Clear the speaker. Please get contact with our distributor to repair, if you cannot solve it. |
| Cannot talk with the members in the same group | The frequency is different with other members. | Resetting the same frequency with them. |
| | In the different digital or analog channels | Correct to the same channel. |
| | Too far away from each other | Get close with each other |
| Single call or group call | Be different in the | Setting the same frequency/channel/color |

| | | |
|---|--|---|
| does not work in the digital channel | frequency/channel/color code/ time slot | code/ time slot |
| Other sound in the channel, which is not from the members | Interference from the same frequency | Change to new frequency, or correct the squelch |
| | The signal is not set yet. | Set the signal for all radio in the group |
| The loud noise | Be too away from other members. | Get close with other members. |
| | Poor location, such as blocked by tall buildings, or located in the basement | Move to open environment, restart the radio. |
| | Interfere by the environment or electromagnetic | Avoid the device interfering the radio |

▲As above method still cannot solve your problem, or you meet other problem, please get contact with local distributor to get the technological support.

■ 保养和清洁 Maintenance and Clean

To keep the performance and extend the service life, please note the content below for maintain the clear the radio.

■ 保养 Maintenance

- ◆ Do not store the radio in an environment containing a corrosive electronic circuit material.
- ◆ Do not directly lift an antenna or an external microphone in the course of carrying or using a radio.
- ◆ Cover the appendage interface cover, when attachments are not used.

■ 清洁 Clean

- ◆ Please use clean, dry cloth or brush to wipe off the surface of the radio and the dust attached to the charging pole on a regular basis.
- ◆ Wipe the radio on dirt with dust, lint free cloth, to prevent poor contact.
- ◆ After long term use of radio, walkie-talkie buttons, control knobs and chassis are easy to dirty. You can use neutral detergent (do not use strong corrosive chemicals) and wet cloth to clean. After cleaning, make sure the radio is completely dry; otherwise please do not use it.
- ◆ When the walkie-talkie does not in use, please attach the cover on the socket.



Please turn off the radio and remove the battery before clearing.

■ ATTENTION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio

or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

■ 主要技术指标 TECHNICAL SPECIFICATION

■ Receiver

| | |
|---|----------------------|
| Receiver Sensitivity | ≤0.25uV (12dB SINAD) |
| Audio Power | 1W@10% |
| Audio Distortion | <10% |
| Signal-to-Noise | ≥45dB |
| Adjacent Channel Selectivity (Wide/Narrow) | ≥65 dB /≥60 dB |
| Intermodulation (Wide/Narrow) | ≥65 dB /≥60 dB |
| Stray Suppression | ≥65dB |
| Receive Current | ≤380mA |

总体规格

| | |
|-------------------------|--|
| Frequency Range | VHF:136-174MHz UHF:400-480MHz(Rx) VHF:144-148MHz UHF:420-450MHz(Tx) |
| Memory Channel | 128 Group |
| Channel Spacing | 12.5K (Narrow) |
| Operating Voltage | DC7.4V |
| Frequency Stability | ±2.5ppm |
| Operating Temperature | -20~+60°C |
| Antenna Impedance | 50Ω |
| Transmit Current | H≤2.5A; M≤1.8A; L≤1.1A |
| Modulation | 11KΦF3E |
| Max Frequency Deviation | ≤2.5KHz |
| Stray Power | ≤7.5uW |
| Adjacent Channel power | ≤-65 dB/≤-60 dB |

| | |
|---|-------------------|
| Signal-to-noise | ≥-40dB |
| QT/DQT Deviation | 0.4±0.1KHz |
| Modulation Sensitivity | 8-12mV |
|  All specifications may be modified without prior notice or liability. | |