**DM-1801数字手持终端**

Disclaimer

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**To users:**

Thank you for your favor with our products.

We are dedicated to providing high performance and high stability radio communication products. This two-way radio is no exception. The radio is a DMR dual-slot digital walkie-talkie developed and produced by my team with 3000 memory channels, full-color LCD display and full keyboard hand-tuning function. In order to make you fully understand the various advantages of the radio performance and use and maintenance methods, please read this manual carefully.

**………………………………………………………………………………………………………………………………**

**RF radiation information**

This product is intended for professional applications that meet RF radiation requirements. Users must be aware of the hazards of RF radiation and take appropriate measures to meet the requirements of RF radiation limit.

**Common sense in RF radiation**

RF refers to the electromagnetic frequency that can be radiated into space. It is a technology widely used in the fields of communication, medical treatment and food processing. It will produce some RF radiation during use.

**Control and operating instructions of RF radiation**

In order to maximize the performance of the product and to ensure compliance with the radiation limits in the relevant occupational or controlled environment of the above criteria, the sending time shall not exceed 50% of the rated factor and shall follow the instructions below:

• RF radiation is generated only during transmission (speech) rather than reception (listening) and standby.

• The distance between the terminal and the body during transmission should be at least 2.5 cm.

**主要功能特点 Main Features**

* **Broadband walkie talkie**

**Support UV double segment, frequency range UHF400.000-480.000MHz / VHF136.000-174.000MHz**

* **DMO True2-Slot dual time slot**

**Direct mode dual-slot communication achieves two groups of calls at a frequency point at the same time, so that the communication efficiency is doubled and frequency resources are saved**

* **Digital and analog compatible, smooth over**

**Support DMR digital and analog two communication modes to ensure that the original analog products smooth transition to digital products to meet different communication needs**

* **Digital signaling function**

**Rich calling modes that support DMR protocol, including single call, group call and all call; supports remote inhibit function and other applications**

* **SMS function**

**Supports SMS, text editing and draft in 64 characters in Chinese and English, so that text messages calls can be sent when voice call is inconvenient**

* **High sound quality**

**This digital two-way radio uses advanced AMBE +2TM voice processing technology to achieve high quality**

* **Manual writing-frequency**

**Supports channel / frequency mode, allows manual writing-frequency in frequency mode, and writing-frequency software can be used to set the required frequency without connecting the computer**

* **High/low power switch**

**Meets the power requirements of different call distances to save more energy**

* **Alarm function**

**Supports general alarm and silent alarm in emergency situations**

* **Digital mode supports the use of relays**
* **Side buttons can be customized without changing the user’s operating habits**

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**■用户安全信息User Safety Information**

Please read the following information in order to use this two-way radio safely and efficiently.

1. The maintenance work of the two-way radio can only be carried out by professional technical personnel; assembly/disassembly without permission is prohibited;
2. To avoid problems caused by electromagnetic interference and/or electromagnetic compatibility, please turn off the two-way radio in places with the sign “Please turn off two-way radio”, such as hospitals and other health care facilities.
3. When taking airplane, please turn off the two-way radio when the crew request.
4. In automobile with airbags, do not place the two-way radio in the inflation area of the airbags.
5. Turn off the two-way radio before entering the flammable and explosive environment;
6. Do not replace or charge the battery in flammable and explosive environments;
7. Turn off the two-way radio before approaching the blasting area and detonator area;
8. Do not use the two-way radio if the antenna is damaged, or else it may cause minor skin burns;
9. Do not expose the two-way radio to direct sunlight or near the heating device.
10. While the portable two-way radio is transmitting, keep the radio in a vertical position and keep the microphone about 5cm from the mouth.
11. Keep the two-way radio at least 2.5cm from the head or body during transmitting.
12. If you are wearing the portable two-way radio on your body, make sure that the antenna is at least 2.5cm away from the body when the two-way radio is transmitting.
13. If the two-way radio has any odor or smoke, turn off the power immediately and contact your dealer.

**■包装清单 Packing List**

The packing box contains the following items. If any item is missing or damaged, please contact your dealer.

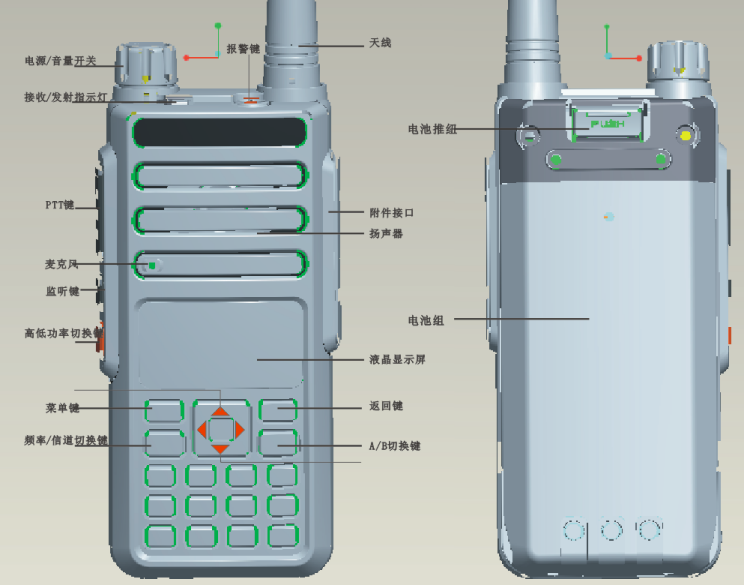


Note: Please refer to the color ring label at the bottom of the antenna for antenna frequency band. If the label does not indicate a band, refer to the specific band on the host label.

**■熟悉本机 Familiar with this Product**

You can familiarize yourself with the external structure and the functions of programmable buttons of this product in this section.

**部件介绍 Introduction of Parts**



**按键介绍 Description of Buttons**

|  |  |
| --- | --- |
| [PTT]Transmit button | Switch between transmission and reception; when transmitting, press this button and speak to the microphone; release the button to receive |
| Side button 1  \* Defaults to [Moni] button | Short press to check the battery voltage |
| Press and hold it to turn on the monitor function (only support analog channels) |
| Side button 2  \* Defaults to [POWER] button | Short press to switch high and low power |
| Press and hold it to turn on the VOX |
| \* Defaults to [SOS] button | Press and hold it to enter the alarm mode（设置后有效） |
| Short press and loosen to exit alarm mode |
| [MENU] button | Press it to activate the menu mode, enter the menu and press this button to select menu items |
| Press and hold it to enter the radio settings |
| [BACK]/[Clear] button | Clear the entered information in input state |
| In menu mode.return to the previous menu |
| [VFO/MR] button | Switch the frequency mode and channel mode |
| [A/B]button | switch the main channel and sub-channe,and the arrow pointing channel is the main channel. |
| 0-9 number buttons | [0~9] code words in DTMF function |
| Select punctuation marks or letters in Pinyin input method. |
| If numeric shortcut function is set, you can press and hold this button to jump to the corresponding contact. |
| The short press is used to activate menu mode, and after entering the menu, use this key to select the items in the menu. |
| [⏶]buttons | Code word A in DTMF function |
| Move up in SMS editing interface. |
| Move up; change the scanning direction in scanning state. |
| [⏷]buttons | Code word B in DTMF function |
| Move down in SMS editing interface. |
| Move down; change the scanning direction in scanning state. |
| [⏴]buttons | Move left in SMS editing interface.。 |
| Code word C in DTMF function |
| [⏵]buttons | Move right in SMS editing interface. |
| Code word D in DTMF function |
| 【\*】键 | Press and hold this button to lock on / off keyboard,Unlock the combo keys [MENU] and [\*] |
| Press this button to clear the data in message editing box. |
| Code word \* in DTMF function |
| 【#】键 | In the interface of input method, press this key to switch input method mode(py.123.abc.ABC) |
| Code word # in DTMF function |
| In analog mode, the DTMF dial code box pops up with a short press of #. At this time, you can manually enter the DTMF code word and press PTT to start the DTMF dial function |

**Note**: Four relay audio call signaling: press [PTT] + [CALL] to send 1000HZ signaling; press [PTT] + [VFO/MR] to send 1450HZ signaling; press [PTT] + [A/B] to send 1750HZ signaling; press [PTT] + [BAND] to send 2100HZ signaling.

**可编程键 Programmable Buttons**

In order to ease the operation, the two programmable buttons [SK1] and [SK2] can be programmed by your dealer as function shortcuts, as shown in the following table. For more information about each function, see the “Function and Operation” section.

|  |  |  |
| --- | --- | --- |
| No. | Shortcut name | Purpose |
| 1 | None | No function is assigned to the preset button. |
| 2 | Prompt tone on/off | Quickly enable or disable all prompt tones at the same time. |
| 3 | Emergency mode on | Quickly establish an emergency call. This is the recommended option for the orange button. |
| 4 | Emergency mode off | Quickly end an emergency call initiated outward. |
| 5 | Select high/low power | Quickly switch between high power and low power. |
| 6 | Monitor | Quickly turn on or off the monitor function. |
| 7 | Delete useless channels | Quickly delete useless channels from the scan list (except the selected channels). |
| 8 | Push to talk 1 | Quickly make digital group calls, digital single call, call prompts, or send text messages (only for digital mode) via push to talk. (This option is only available if the digital function is enabled on the device.) Push-to-talk 1 to push-to-talk 6 can be set. |
| 9 | Relay / offline | Quickly switch between relay mode and offline mode. |
| 10 | Scan on / off | Quickly turn the scan function on or off. Note: double-segment double-waiting scan does not work |
| 11 | Strict/normal squelch | Quickly switch between strict squelch and normal squelch (only for analog mode). |
| 12 | Encryption on/off | Quickly turn on/off encryption for channel (only for digital mode). |
| 13 | Voice control on/off | Quickly turn on or off the voice control function. |
| 14 | Area switching | Quickly select the area, allowing the user to switch between two areas. |
| 15 | Battery power indication | Quickly access to battery power. The user can check the battery status by LED. The battery power is sufficient if the LED is constantly in green, the battery power is still available if the LED is constantly in yellow, and the battery power is low if the LED is in red. |
| 16 | Individual operation switch | Quickly turn on or off individual operation function. |
| 17 | End call | Quickly end the phone call (only for digital mode). |

Note:

●Depending on dealer setting, different functions can be achieved by pressing and pressing and holding the same button.

**■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 state of charge.



# 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. The specific table below.

|  |  |
| --- | --- |
| 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 ℃ 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.

■Battery Voltage & Power Indication

If the dealer has set the 【battery power prompt】 shortcut key for the product, you can press and hold the shortcut key to check the remaining battery power by LED indicator, tone and battery icon. Release the shortcut to cancel viewing the remaining battery power. The top right of the screen shows the current battery power icon is as follows:

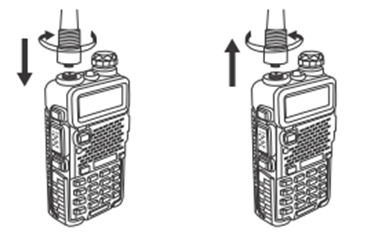
|  |  |
| --- | --- |
| Battery icon | Battery power |
|  | High |
|  | Medium |
|  | Low |
|  | Insufficient |

**■附件安装 Accessories installation**

**1．**Install / remove the antenna

Turn off the radio and insert the antenna into the mounting hole and turn clockwise. (Figure 1-1)

When removing the antenna, turn it counterclockwise to remove the antenna. (Figure 1-2)



**Note**：Do not shake the top of the antenna by hand, otherwise it will reduce the working performance and service life of the antenna.

**2．** Install / remove the battery

●Install the battery

Align the battery with the battery holder on the back of the walkie-talkie. Push the battery firmly into the walkie-talkie and slide the battery up until it locks into place.

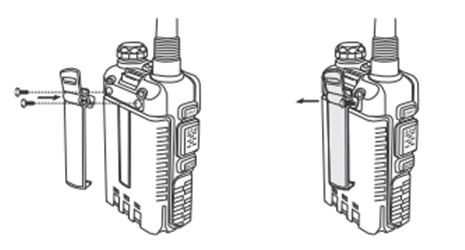
●Remove the battery

To remove the battery, turn off the transceiver. Slide the battery latch into the unlocked position and hold, and then slide the battery downward and out of the battery mount.

1. Install / remove the belt clip

●Unscrew the two screws on the battery. Align the two screw holes in the belt clip with the screw holes in the top of the battery, and then tighten the screws.

●Loosen and remove the screw from the belt clip (it is recommended that you screw the screw to the battery for the next time you are installing and using the belt clip).



4． Install external headphones / microphone (optional separately)

Open the headset cover, the headset plug into the headset hole will be ok. When you do not need to use the headset, unplug the headset plug from the earphone jack and cover the earphone cap. When not using the universal interface, please cover the dust cover.

**■状态指示 Status indication**

**Description of 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.



**Description of LCD Icons**

|  |  |  |
| --- | --- | --- |
| Icon name | Icon | Description of product status |
| Signal strength icon |  | The more signal bars, the stronger the signal is |
| Transmission power icon | 高功率 | The current channel transmits at high power |
| 低功率 | The current channel transmits at low power |
| Digital icon |  | Digital mode |
| Analog icon |  | Analog mode |
| Direct mode slot icon |  | The current channel is in double slot direct mode and slot 1 is active |
|  | The current channel is in double slot direct mode and slot 2 is active |
| Sub-audioicon | CT | The current sub-audio is CTCSS |
| DCS | The current sub-audio is CDCSS |
| Speaker icon | 喇叭 | Speaker is enabled, and reception is effective |
| Narrowband mode | N | Work in narrowband mode |
| Message icon | 未读短信 | Receive a text message, or have an unread message |
| VOX icon | 声控 | VOX has been turned on |
| Relay mode icon | + | The current transmission frequency is the reception frequency plus a frequency bias (positive bias) |
| - | The current transmission frequency is the reception frequency minus a frequency bias (negative bias) |
| 脱网 | Currently in offline state |
| Keyboard Lock icon |  | The keyboard lock is locked;Lock status. Press the combo keys [Menu] and [\*] to unlock |
| Scrambling icon | R | The current reception frequency and the transmission frequency are inverted (if the reception sub-audio and transmission sub-audio are different, the sub-audio will also be inverted) |
| Double-waiting icon | S | Has been set to dual-band double-waiting function, and allows waiting on two frequency bands displayed on the screen at the same time |
| Scan icon | 扫描 | The scan is on and is in normal mode |
| 扫描_优先1 | The scan stays on priority channel 1 |
| 扫描_优先2 | The scan stays on priority channel 2 |
| Battery power icon |  | The more bars, the more battery power |
| Pointer icon | 数字(主) | Currently pointing to the main digital mode; press A/B button to switch the main channel up and down. When double-waiting is turned on and works in digital sub-channel, the icon is |
| 模拟(主) | Currently pointing to the main analog mode; press A/B button to switch the main channel up and down. When double-waiting is turned on and works in analog sub-channel, the icon is 模拟(副) |
| Channel number icon | 001 | In channel mode, the current channel number is 001 (range 001~128) |

LED Indicators

This product has LED indicators so you can easily grasp the current operating state.

|  |  |
| --- | --- |
| Indicator status | Product status |
| Red on | Sending |
| Green on | Receiving |
| Green flash | Scanning |

**■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.

注意——LOGOIf you disable the tone function of this product (setting path: "Menu -> Settings -> Walkie talkie Settings -> Tones / Tips-> All Tones -> off"), there will be no boot tone.

If all LED's are disabled, the transmit / receive light does not come on during turning on. A short beep sounds to indicate successful boot detection. (Setting path: "Menu-> Settings-> Walkie talkie Settings-> LED-> off"), the LED will not light up.

**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 Mode 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 “Double Wait”, then press【MENU】to select.
5. Press【▲】/【▼】to select the required option (Off/Double Wait/Single Wait).
6. Press【MENU】return to theprevious menu.

● When “ Off ” is selected, the machine operates in single band mode.

● When “ Single Wait ” is selected the machine only works on the main channel, and the sub channel does not receive signal.

● When “Double Wait” is selected, the main channel and sub channel scan in turn. When effective reception signal is scanned, the machine locks and works; if the locked channel is not the main channel, points to the temporary working channel, anddisappears when the preset time is up. If there is no temporary identification, the main channel pointed by transmits when you press PTT.

**Note**: As the dual waiting mode is in main channel and sub channel scanning states, DTMF, auto scan, individual operation and ARTS auxiliary function do not work.

**频率模式(VFO) VFO Mode**

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.

注意——LOGOWrite frequency software configuration path: open the write software -> Edit -> VFO mode -> VFO A -> digital / analog data -> channel mode -> select "number."

• Or set VFO B to Analog. Normally set VFO A to digital mode and VFO B to analog mode.

**数字/模拟切换 Digital - Analog Switching**

Each channel of this product can be configured by the dealer as an analog channel or a digital channel. If the current region contains a digital channel and an analog channel, you can change the channel to an analog or digital.

**键盘锁定与解锁 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:

* Keypad Lock: Press and hold the [#] button to lock the keypad.
* Keypad Unlock: Press [MENU] and [\*] to unlock the keypad

**Note**: The default keypad lock range is all buttons on the panel, excluding the side buttons SK1, SK2 and PTT.

**发起和接收呼叫 Transmit and receive**

**选择区域 Selecting Zone**

Zone is a channel group in which you can include channels with the same attributes (such as call type, digital mode and analog mode) in Zone, which makes it easy for you to manage existing channels. The unit supports up to 150 Zone, and each Zone contains up to 32 channels. You can select a region in two ways:

● Select from the menu: After entering the “Zone” menu, press [▲]/ [▼] to select the required zone, and then press [MENU] to switch to the selected zone.

● Select through the programming button: If the dealer has set the [Zone switch] shortcut, you can press the shortcut to switch to the required zone.

**添加区域 Add Zone**

## The Add Zone through program software.

## 选择对讲机信道、用户ID、通话组ID Selecting Channel, User ID & Call Group ID

In the standby interface, press [VFO/MR] to switch to MR (channel) mode, and press [▲]/ [▼] to select the desired channel, user alias or ID, or call group alias or ID.

## 接收和回复组呼数字.jpg Receive and Reply to Group call 数字.jpg

To receive a call to a user group, the two-way radio must be configured to the call group.

1. The LED indicator light is green

2.The LCD screen displays: The first line shows Group Call, the second line shows the group alias and the third line shows the caller ID and the incoming call icon已接呼叫.jpg.(Only in Digital mode)

3.Press and hold the [PTT] button to reply，The LED indicator light is red.

4. Release the [PTT] button to receive.

5. If there is no voice activity for the scheduled time period, the call is terminated.

6. You will hear a short tone, the screen shows the call ended.

## 接收和回复单呼数字.jpg Receive and Reply to Single call 数字.jpg

Single call is a call from an individual two-way radio to another.

1. The LED indicator light is green

2. The LCD screen displays: The first line shows Single call, the second line shows the Single calls and the third line shows the caller ID and the incoming call icon已接呼叫.jpg.(Only in Digital mode)

3..Press and hold the [PTT] button to reply，The LED indicator light is red.

4. Release the [PTT] button to receive.

5. If there is no voice activity for the scheduled time period, the call is terminated.

6. You will hear a short tone, the screen shows the call ended.

## 

## 接收全呼数字.jpg Receive All call 数字.jpg

All call is an individual walkie-talkie call to all walkie-talkies on the channel. It is used to publish important notices that require special attention from users.

1. LED indicator light is green.

2. he LCD screen displays: The first line shows the All call, the second line shows the user's alias or ID and the third line shows the all call icon已接呼叫.jpg (Only in Digital mode)

3. After the termination of all calls, the walkie-talkie will return to the screen before receiving the call. If "channel idle tone" is enabled, you will hear a short tone when the walkie talkie releases the [PTT] key, indicating that the channel is ready for use and you cannot reply to all calls.

注意——LOGOWhen you receive an all call, if you switch to another channel, the transceiver stops receiving the full call. During a full call, you will not be able to use any of the preprogrammed keys until the call is ended.

## 发起对讲机呼叫 Start a walkie-talkie call

Start a walkie-talkie call

    You can choose a channel, user ID or talk group in the following ways:

Channel knob

• Pre-programmed one-touch call button

• Address book list

• Manual Dialing (Via Contacts) - This method is suitable for single calling only and dialing using the keypad

## 

## 使用信道切换发起呼叫 Use the channel Switch to place a call

### 发起组呼数字.jpg Group call数字.jpg

To initiate a call to a user group, the transceiver must be configured to belong to the talk group.

1. In the channel mode,press the 【⏶】/【⏷】 to select the channel using the active talk group alias or ID.

2. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

3. Press 【PTT】 key to initiate a call, LED indicator light is red. The screen displays the talk group alias or ID, as well as the group call icon呼出.jpg.

4. Release the [PTT] key to answer. When the target radio replies, the LED indicator will light green. The group call icon, call group alias or ID, and walkie talkie alias or ID is displayed on the screen.

5. If the Channel Idle Tone feature is enabled, when the target radio releases the PTT button, you will hear a short beep indicating that the channel is free for you to answer. Press the PTT key to answer, or if there is no voice activity for a predetermined period of time, the call is terminated.

6. The walkie talkie returns to the screen before receiving the call. You can also initiate a group call from your address book.

### 发起单呼数字.jpg Single call 数字.jpg

1. In the channel mode,press the 【⏶】/【⏷】 to select the channel using the active user aliasl or ID.

2. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

3. Press 【PTT】 key to initiate a call, LED indicator light is red. The top line of the screen shows status icons such as RSSI. In the display area below the top line, the first line shows a single call, the middle shows a user alias or ID, and the bottom shows a one-way icon呼出.jpg (digital mode only).

4. Release the [PTT] key to answer. When the target radio replies, the LED indicator will light green.

5. If the "Channel Idle Tone" feature is enabled, when the target radio releases the [PTT] key, you will hear a short beep indicating that the channel is free for you to answer. Press the PTT key to answer, or if there is no voice activity for a predetermined period of time, the call is terminated.

6. You will hear a short tone, the screen shows the call ended.

注意——LOGOYou can also initiate a one-touch address book or make quick contact access via the keyboard entry to find the desired walkie talkie.

### 发起全呼数字.jpg All call 数字.jpg

This feature lets you signal all users on the channel. The walkie-talkie must be programmed to allow you to use this feature.

1. In the channel mode, press the 【⏶】/【⏷】 to select the channel using the active full call group alias or ID.

2. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

3. Press 【PTT】 key to initiate a call, LED indicator light is red. The screen displays the all-call group alias or ID, as well as the all-call icon呼出.jpg.

注意——LOGOChannel users cannot reply to all calls.

## 使用单键呼叫键发起组呼或单呼数字.jpg Use the one-touch call button to initiate a group call or a single call 数字.jpg

One-touch calling features make it easy to group calls or single calls to predefined aliases or IDs. This function can be assigned to short programming or long programming keys.

You can assign only one alias or ID to a one-touch call key, and the walkie talkie can have multiple programmed one-touch call keys.

1. Press the preprogrammed one-touch call button to initiate a group or single call to a predefined alias or ID.

2. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

3. Press 【PTT】 key to initiate a call, LED indicator light is red. The screen displays the talk group / user alias or ID, as well as the group call / callout icon.

4. Release the [PTT] key to answer. When the target radio replies, the LED indicator will light green.

5. If the "Channel Idle Tone" feature is enabled, when the target radio releases the [PTT] key, you will hear a short beep indicating that the channel is free for you to answer. Press the PTT key to answer, or if there is no voice activity for a predetermined period of time, the call is terminated.

6. The walkie talkie returns to the screen before receiving the call.

**模拟信道呼叫A.jpg Analog channel call** **A.jpg**

## On the analog channel, hold down the [PTT] key and speak into the microphone, to transmit. Please release 【PTT】 key to receive.

## DTMF呼叫A.jpg DTMF callA.jpg

**发起呼叫： Transmit:**

* In the analog channel, press and hold the [PTT] key and press the keypad number key.
* In the analog channel, long press 【#】 key to switch to manual dialing mode, enter the desired number, short press 【PTT】 key to start DTMF call.

**接收呼叫： Receive:**

When the host computer has configured DTMF as the receiving signaling system of the current channel, when decoding the code word is DTMF personal ID code, the decoding is successful. During the resetting time, it can talk to the other party. The reset time needs to be re-decoded.

**一键呼叫A.jpg One touch callA.jpg**

Analog mode, program the radio’s one touch calls function:

1. Enter the corresponding DTMF number in DTMF Signaling -> Coding -> Coding Sequence.

2. Programmable Button -> One Touch Access -> Mode -> (Analog) -> SMS / Code -> (Select the corresponding code number)

3. (Programmable key) -> Walkie-talkie button -> Side key X -> Push to talk X -> (Select the corresponding PTT serial number)

After the above configuration, press the corresponding side button, you can achieve one touch DTMF launch.

**PTT ID呼叫A.jpg PTT ID callA.jpg**

In analog mode, you can program the radio to configure the DTMF on-line code and off-line code; and enable the up-down-line code on the analog channel. When enabled, the code will be sent each time the [PTT] key is pressed, and the code will be released when the [PTT] key is released.

**声控发射VOX VOX**

VOX refers to voice directly trigger: microphone detects voice to trigger a acoustic emission, walkie-talkie automatically launch the voice, that users do not need to hold [PTT] button can be directly in the process of speech. The LCD display icon声控

* Please adjust the voice gain level correctly according to the current environment and normal speaking volume, so as to avoid frequent accidental triggering (sensitivity too high) or difficult to trigger voice control (sensitivity too low).
* The sensitivity of voice control transmission can be modified by writing-frequency software, level 1 is the highest sensitivity level, and level 10 is the lowest sensitivity level.

**紧急报警功能 Emergency alarm function**

**紧急报警 Emergency alarm**

In the event of an emergency, you can use this feature to ask your fellow or control center for help. Emergency alarm has the highest priority, you can alarm whether the walkie talkie is transmitting or receiving.

Alarm initiator to exit the alarm mode, there are two cases:

● Turn off the radio to exit the whole machine alarm.

● In other ways, when exiting alarm mode, the alarm on the current channel can only be temporarily exited. When reselecting the channel, the alarm will continue;

注意——LOGOThe alarm function is enabled for you by the dealer (program path: "Edit -> Digital Emergency Alarm System -> Emergency Alarm System -> System1").

**报警类型数字.jpg Alarm Type 数字.jpg**

The radio prompts in different modes for different alarm types, as shown in the following table.

|  |  |
| --- | --- |
| Alarm type | Description |
| Disable | Turn off alarm function (alarm disabled), but it can receive alerts from other radios. |
| Conventional | When alarms, the radio gives an audible and visual prompt. |
| Silent | When alarms, the radio will not give any audible or visual prompt. At the same time, no sound is made on any received audio. |
| Silence with voice | When alarms, the radio will not give any audible or visual prompt. However, the radio sounds when you press and hold the PTT button to initiate a call or respond to a call. |

**报警模式数字.jpg** Alarm Mode数字.jpg

Except the alarm type “Disable”, other alarm types support the following alarm modes. You can ask the dealer to select one of them (Note: The following methods use “Conventional” alarm type as an example).

|  |  |
| --- | --- |
| Alarm mode | Description |
| Emergency alarm | In this mode, you can press and hold the [Emergency mode on] button to send an alarm tone to your partners or control center but can’t talk to the other party. |
| Emergency alarm and call (alarm call) | In this mode, you can press and hold the [Emergency mode on] button to send an alarm tone to your partners or control center, and then press and hold the [PTT] button to speak to the microphone, and your voice and surrounding background sound will be sent to the receiver. |
| Emergency alarm and voice (emergency call) | In this mode, you can press and hold the [Emergency mode on] button to enter the alarm transmission channel. The product automatically activates the “emergency microphone” (without holding down the PTT button). You can speak to the microphone, and your voice and the surrounding background sound will be sent to receiver. |

## 

## 接收紧急警报 Receive emergency alert

1. The number of alerts received when an emergency alert was received, along with the alert that was received, alternating with the sender's alias or ID.

2. A beep sounds and the LED flashes red.

3. If enabled, your transceiver will automatically acknowledge the emergency alert. When the walkie talkie receives an emergency alert, the screen displays a prompt that an emergency alert has been received, until an acknowledgment is sent and the emergency mode exits. You will not be able to receive any other prompts or show any other calls until you exit the screen for receiving an emergency alert.

注意——LOGO  Short press 【BACK】 key, and then press the pre-programmed alarm close key, clear the prompt of receiving emergency alarm and exit emergency mode.

## 回复紧急警报 Reply to emergency alert

When receiving an emergency alert:

1. Press any key to stop all audible alerts that have received an emergency alert.

2. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth. If the "channel idle tone" function is enabled, you will hear a short tone when the walkie talkie releases the PTT key, indicating that the channel is now ready for use.

3. Press 【PTT】 key to start and emergency call to initiate walkie talkie call. LED indicator light is red. The walkie talkie is in emergency call mode.

4. Release the PTT key to answer. When the emergency call initiates the walkie talkie reply, the LED indicator will light green. You will see group call icons, talk group IDs, and walkie talkie ID on the screen.

5. When the call is finished, press the [BACK] key briefly and then press the Preset Alarm Off key to clear all prompts for emergency calls and exit emergency mode.

6. The walkie talkie returns to the home screen.

## 发送紧急警报 Send emergency alert

This feature allows you to send an emergency alert, which belongs to a non-voice signal and will trigger a prompt on another transceiver.

1. Press the preprogrammed【Alarm On】 button.

2. The screen displays Send Alert, alternating with walkie talkie ID. The LED is lit red and the emergency call icon appears on the home screen.

3. When an emergency alert confirmation is received, an emergency call tone sounds and the LED flashes green. The screen shows that the emergency alert was successful.

• Or if the walkie talkie does not receive any emergency alert confirmation and a beep sounds after all retries are exhausted, the screen displays failed emergency alert.

4. The walkie-talkie exits the emergency alert mode and returns to the home screen. If your walkie talkie is set to "silent," it will not show any voice or visual cues in emergency call mode.

## 

## 发送带呼叫的紧急警报 Send emergency alert with call

## This feature allows you to send an emergency alert to another transceiver. After confirmation, the two walkie talkies communicate via a pre-programmed emergency channel.

## 1. Press the preprogrammed [Alarm On] button.

## 2. The screen displays Send Alert, alternating with walkie talkie ID. The LED is lit red and the emergency call icon appears on the home screen.

## 3. When an emergency alert confirmation is received, an emergency call tone sounds and the LED flashes green. The screen shows that the emergency alert was successful.

## 4. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

## 5. Press [PTT] key to initiate a call, the LED indicator lights up in red, and the group icon appears on the screen.

## 6. Release the [PTT] key to answer.

## 7. If the "Channel Idle Tone" feature is enabled, when the target radio releases the [PTT] key, you will hear a short beep indicating that the channel is free for you to answer. Press 【PTT】 key to answer.

## Or press the pre-programmed alarm close button to exit emergency mode.

## 8. The walkie talkie returns to the home screen. If your transceiver is set to "Mute," it will not display any voice or visual cues in Emergency Call mode and will not receive any response (call) from the target transceiver until you press the {PTT} key to initiate the call. If your transceiver is set to mute with Voice, it will not show any voice or visual cues in emergency call mode or when you receive a call from the target radio. Only when you press the [PTT] key to initiate or respond to the call, will prompt.

## 发送带语音跟随的紧急警报 Send an emergency alert with voice follow

This feature allows you to send an emergency alert to another transceiver. After confirmation, your walkie talkie microphone is activated automatically, allowing you to communicate with other radios without pressing the [PTT] key. This activated microphone status is called "Emergency Microphone". If the [PTT] key is pressed during the preprogrammed emergency microphone launch, the transceiver ignores [PTT] press and remains in emergency mode.

注意——LOGOIf you press the [PTT] key during the emergency microphone and continue pressing the key after the duration of the emergency microphone, the transceiver continues firing until you release the [PTT] key.

1. Press the preprogrammed [Alarm On] button.

2. The screen displays send an alert, the LED is lit red and the emergency call icon is displayed.

3. After the screen shows that the emergency alert is successful, speak clearly toward the microphone. When the emergency microphone has been activated, the transceiver automatically transmits a signal without pressing the [PTT] key until the end of the emergency microphone time.

4. While transmitting, the LED is lit red and the emergency call icon appears on the screen.

5. After the emergency microphone duration has expired, the transceiver automatically stops transmitting. To launch again, press the [PTT] key.

If your walkie talkie is set to "silent," it will not display any voice or visual cues in emergency call mode and will not receive any response from the target walkie talkie until the preprogrammed emergency microphone period has expired, and you Press 【PTT】 key. If your transceiver is set to "silent with voice", it will not display any voice when you place an emergency microphone call in emergency mode, or when the target walkie talkie responds after the preprogrammed emergency microphone interval Or visual cue. These prompts appear only when you press the [PTT] key.

注意——LOGOIf the emergency alert request fails, the walkie talkie returns to the home screen.

## 重新开始紧急模式 Restart emergency mode

## It can happened in two situations: • When the transceiver is in emergency mode and changes channel, it will exit emergency mode. If an emergency alert is activated on the new channel, the transceiver resumes the emergency call. • Press the preprogrammed [Alarm On] key in the emergency call start / transmit state. This way the walkie talkie will exit the status and restart the emergency call.

## 退出紧急模式 Exit emergency mode

The transceiver exits emergency mode when one of the following happened:  
• Receive emergency alert confirmation (emergency alerts only), or  
• The number of major attempts to send an alert has been reached, or  
• Press Preprogrammed [Alarm Off ], or  
• Press the [PTT] key.

注意——LOGOIf the radio is turn off, it will exist the emergency mode. When you turn on again, the radio won’t start resume emergency mode

**单独工作 Individual Operation**

This feature is ideal for people who work alone. If you encounter unexpected situations during individual operation, you can’t operate the radio in preset time. The radio will automatically send alarm to your partner or control center for help.

1.Turn on individual operation

● Through writing frequency software, this function is turned on when the radio is started.

● Press the preset [Individual Operation] shortcut to enable this function.

2. If you do not operate the radio in the preset response time, the radio will prompt before the response time is up (depending on the dealer settings). At this point, you can end the prompt with a valid physical operation (knob or button operation). When the response time is up, the radio will automatically turn on the alarm system of the current channel.

3. Turn off individual operation

● Turn this function off by writing-frequency software.

● Press the preset [Individual Operation] shortcut again to turn off this function.

**Note:** If you do not turn off the individual operation function before shutting down, the function is still active the next time you turn on the radio.

## 加密 Encryption

Enabling encryption helps prevent unauthorized access to eavesdropping by other users who are on the channel and use the software encryption method. The transmitted signal and user identification parts are not encrypted. Your radio must have been encrypted on the channel to enable to send encrypted transmissions, even when it is not necessarily required to receive transmissions.

### 基本型加密 Basic Encryption

The radio can only be assigned one of the above encryption types. To decrypt an encrypted call or data transmission, the radio which need to be pre-programmed and the transmission radio must have the same "Encryption Key" (for Basic Encryption).

If your radio receives encrypted calls with different encryption keys or different key values and key IDs, you will hear the chaotic transmission sound (basic encryption).

Press the Pre-programmed 【Encryption】 button to turn on or turn off the encryption.

**ANI身份码显示A.jpg ANI ID code display A.jpg**

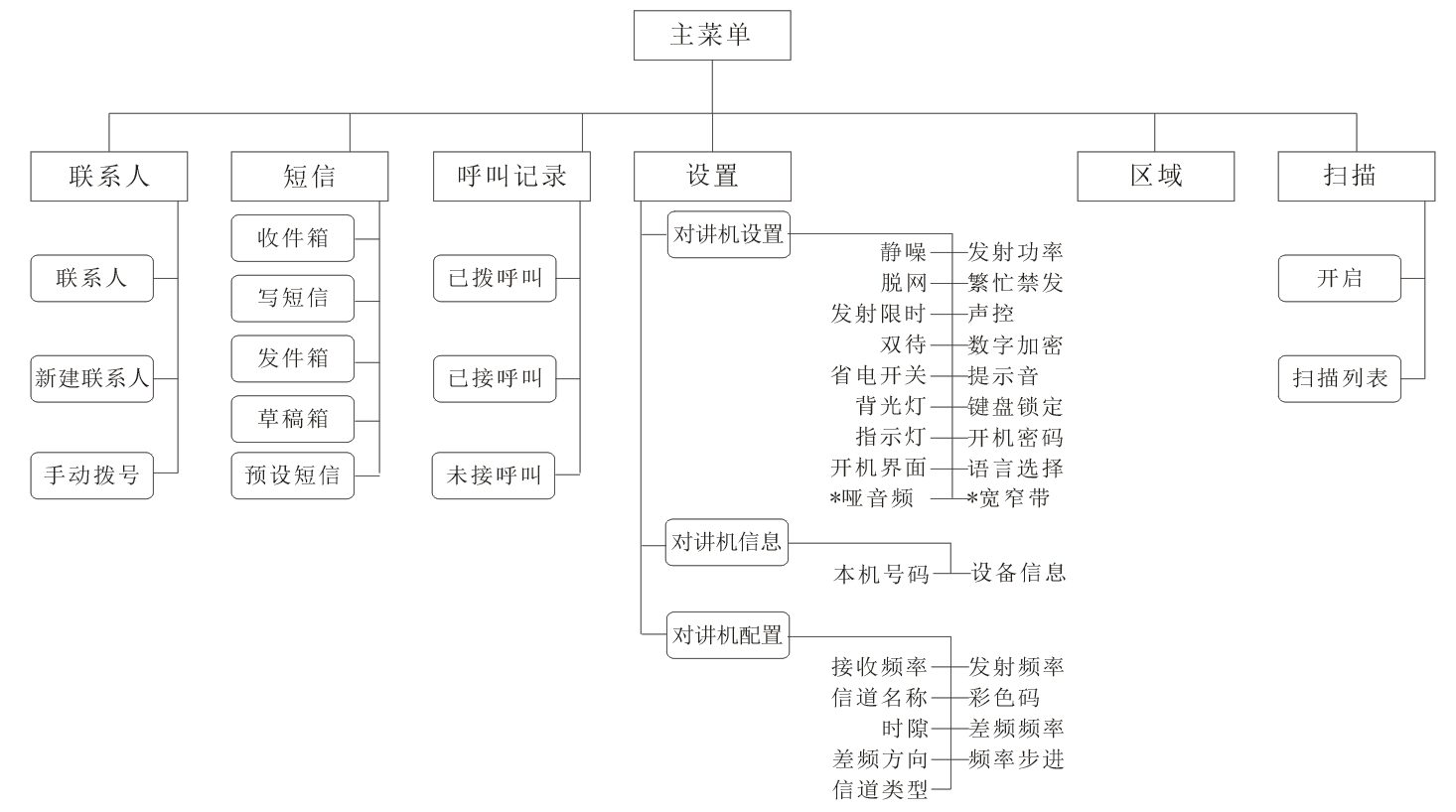
Under the Analog mode, you can set PTT ID by the program software.

The program software operation route: Channel information-> Analog data-> Display PTT ID, tick this option, the LCD will display the ANI ID code when receive the DTMF signal.

**■菜单功能操作 Menu operation**

Press the [MENU] button in digital mode or digital channel to enter the digital menu; press the [MENU] button in analog modem or analog channel to enter the analog menu. The menu structure is shown in the following figure, including all the menu items of this product. You can ask the dealer to configure the menu items. You need to first press the [MENU] button to enter the main menu, and then press the [▲]/ [▼] button to navigate to desired submenu or option and press the [MENU] button to confirm and complete your setting. This document only describes the order of the menu items when the menu operation is introduced. For example, the path to the contact list is “Contacts -> Contact List”. The menu has automatic reset function. If you do not do anything for the menu during preprogrammed time (configured by the dealer), the product will automatically return to the standby screen. You can ask the dealer to modify the auto reset time and cancel auto reset.

**菜单导航 Menu Navigation**



Menu list

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Level 1 menu** | **Level 2 menu** | **Level 3 menu** | **Options** | **Description of settings** | **Remark** |
| Contacts | Contacts | Contact list | View contacts | View the contact name and number | For digital mode only |
| Quick configuration | Configure number 0~9 to the contact, select idle state to turn off shortcut configuration |
| 删除联系人 | Delete current contact |
| New contact | Enter number | xxxx | Enter the contact number, up to 16777214, press the MENU button to confirm or press BACK to delete |
| Alias | Abcd | Enter the name; support Chinese and English and special characters |
| Tone | OFF  Tone 1~10 | There are 10 tones that can be selected. When the caller chooses to enable the call prompt and the caller’s number is the new contact, the unit issues this tone and the tone can be turned off if it is not necessary |
| Manual dialing | Enter number | Call Alert | Send call prompt to a contact, and the other party can call back directly |
| Radio Check | Initiate radio detection to a contact without interfering with each other to confirm whether the other party has turned on the unit or uses in the current channel. |
| Remote Moni | Remotely activate the microphone of a contact, and monitor the voice and background sound of the other party. |
| Radio Active | Send an activation command to a contact to resume normal use of the two-way radio. |
| Radio remote kill | Send a remote kill command to a contact, so that the radio can’t be used normally. Remote kill two-way radio can be remotely monitored, but other functions can’t be used; it only allows re-writing frequency through CPS software or activating the radio through activation instructions |
| SMS | Inbox | Inbox list | List xxxx | Unread未读短信, read; press MENU to edit the contents, and press MENU again to reply / forward / delete | For digital mode only，  The Software menu options are configurable |
| Delete all | es/No | Yes: Delete all No: Do not delete |
| New message | Edit interface |  | Support Chinese and English and special characters, press the # button to switch input method, and press MENU key to send / save / clear |
| Outbox | Outbox list | List … | Press the MENU button to edit the content, and press MENU again to retransmit / forward / edit / delete |
| Delete all |  | Yes: Delete all No: Do not delete |
| Drafts | Drafts list | List … | Press the MENU button to edit the content, and press MENU again to transmit / save / clear |
| Delete all |  | Yes: Delete all No: Do not delete |
| Quick Text | List… |  | Press the MENU button to edit the content, and press MENU again to transmit / save / clear |
| Call logs | Outgoing call | Outgoing List | List… | Outgoing single calls; press MENU to view / add to Contacts/ delete, enter alias and save in contact list | For digital mode only; |
| Delete all |  | Yes: Delete all No: Do not delete |
| Answered call | Answered List | List… | Answered single calls; press MENU to view / add to Contacts/ delete, enter alias and save in contact list |
| Delete all |  | Yes: Delete all No: Do not delete |
| Missed call | Missed List | List… | Missed single calls; press MENU to view / add to Contacts/ delete, enter alias and save in contact list |
| Delete all |  | Yes: Delete all No: Do not delete |
| 设置Set | 对讲机设置 Radio Set | CTCSS/DCS | C CTC/DCS | **Change the encoding and decoding of CTCSS/DCS. Press [MENU] to enter “CTCSS/DCS”, press [\*] to select DCS, press [▲]/[▼] to select DCS, code, press [#] to switch the positive phase (N) and negative phase (I).**  **● Press [\*] to select “CTCSS OFF”, press [▲]/[▼] to select CTCSS.**  **● You can also enter CTCSS/DCS with keypad, press the [MENU] button to confirm, and press [BACK] to return.** | **For analog mode only** |
| R CTC/DCS | Change the decoding of sub audio. Setting method is same as above |
| T CTC/DCS | Change the coding of sub audio. Setting method is same as above |
| Squelch | Strict |  | The Software menu options are configurable |
| Normal |  |
| TX Power | Low | Low power transmission | Options can be configured |
| High | High power transmission |
| Talkaround | On | ON; the function works only when “Allow offline” of current channel of the host computer is ticked | Options can be configured |
| Off | Off |
| N/W BAND | Narrow | Narrowband works | 仅模拟模式 |
| Wide | Broadband works |
| Busy Lock | Off | Transmit when the channel is occupied |  |
| Carry | Press PTT to prohibit transmission when there is carrier wave |
| QT/CC | Match CTCSS / color code forbidden |
| TOT | OFF | Off, no transmission limit |  |
| 15～495S | Alarm in 10 seconds before transmission, and prohibit transmission when the time is up; for example, when it is set to 60 seconds, alarm is sent for 10 seconds from the 50th second, and transmission is prohibited at the 60th second |
| Vox | Off | VOX is turned off; | **Options can be configured** |
| On | It is not necessary to press PTT when this option is on; you can speak to transmit directly; voice sensitivity of the host computer can be set to 1~10, level 1 is the highest sensitivity level, and level 10 is the lowest sensitivity level |
| Double Wait | Off | The machine works in the main channel, the sub-channel can’t transmit or receive | **Options can be configured** |
| Double Wait | The machine works in the main channel, the sub-channel can’t transmit or receive |
| Single Wait | Scan main channel and sub-channel in turn; call is locked when the reception is effective; you can press PTT to talk with the other party |
| Encrypt | Off | Turn off encryption | Options can be configured; for digital mode only |
| On | Turn on encryption function, and the two sides must pair the key to make the call normally |
| Power Save | Off | Turn off power saving mode |  |
| On | Turn on the power saving mode; power saving ratio is 1:4 |
| Beep | All Tone | Options: Off/On. Turn off all tones when Off is selected, but do not include emergency alarm tone | **Options can be configured** |
| Call Permit | Options: Off / Digital / Analog. Pressing the PTT button will transmit the signal through the channel and will sound a tone that prompts the user to start speaking.  ● OFF: Turn off this function  ● Digital: Enable this tone only for digital channels  ● Analog: Enable this tone only for analog channels  ● Both：Enable this tone for digital channels and analog channels |
| Key Beep | Options: Off/On. There is no prompt tone when Off is selected |
| Backlight | Always On | The background light is on all the time | **Options can be configured** |
| Always Off | The background light off all the time |
| 5/10 sec | Turn off the backlight automatically when the time is up |
| Keypad Lock | Manual | Press and hold # to lock, press the MENU and \* to unlock | **Options can be configured** |
| 5/10/15 sec | Auto lock; lock automatically at set time; press the MENU and # to unlock |
| Indicator | Off | The indicator (transmission, receiving, boot, etc.) does not work when it is off | **Options can be configured** |
| On | Default option is on |
| Passwd Lock | Enter password | Input correct password to enter the setup menu; the password can be configured by default on host computer  Options: On or Off / Changes boot password  ● On or Off: Turn on if it is turned off, and turn off if itis turned on; when On is selected, you need to enter the correct password and press the MENU button to start the unit  ● Change boot password: You can enter a new password not more than 6 digits; please remember after changing | **Options can be configured** |
| Mode | CH No. | The channel mode is displayed by channel number | **Options can be configured** |
| CH Name | The channel mode is displayed by channel name |
| CH Freq | The channel mode is displayed by frequency mode |
| Screen | Picture | Display according to the picture provided by the customer | **Options can be configured** |
| Character | Two lines, can be edited by software |
| Language | English | English version, including menu, call tips, call logs and all other interfaces |  |
| Chinese | Simplified Chinese |  |
| Radio info | Radio ID | 12345678 | Digital mode displays the digital ID of the unit, up to 16777214; analog mode displays the DTMF ID of the unit, up to99999999; this option is read only | For digital mode only |
| Device Info | Model info | The machine model | For digital mode only |
| S/N | Unique alphanumeric character of the two-way radio |
| CPS version | Reading and writing frequency software version |
| Hardware version | Hardware circuit board version |
| Firmware version | The software version of the internal hardware components of the two-way radio |
| DSP version | DSP software version number of digital processing chip |
| Program Time | The date and time of the last programming of the two-way radio |
| Radio configuration | Reception Frequency | To set reception frequency; press \* to clear all, press BACK to delete one |  |
| Transmission Frequency | To set transmission frequency; press \* to clear all, press BACK to delete one |  |
| Channel Name | To set channel name; press \* to clear all, press BACK to delete one |  |
| Color Code | Options: 0~15 optional  Valid for digital mode only | For digital mode only |
| Slot | Options: 1~2 optional  Valid for digital mode only |
| Shift Frequency | The difference between transmission frequency and reception frequency in frequency mode, whether frequency has difference depends on frequency direction |  |
| Shift Direction | Options: Off / Positive / Negative   * Off: Transmission frequency and reception frequency have no difference in frequency mode * Positive: In frequency mode, the transmission frequency is equal to the reception frequency plus the difference frequency * Negative: In frequency mode, the transmission frequency is equal to the reception frequency minus the difference frequency |  |
| Frequency Step | **Options: 2.5K/5.0K/6.25K/10K/12.5K/25K/50K**  **In the frequency mode, press [▲]/[▼]to adjust the frequency value in steps; scanning steps in frequency mode** |  |
| Channel Type | **Options: Analog / Digital**  **Switch analog and digital mode in frequency mode** |  |
| **Zone** | Zone Name | A list of regions that can support up to 150 regions | | |  |
| **扫描** | On | Switch on/off; scan function can be turned on only when the PC of current channel has configured the scan list; it also can be turned on through the function button defined as “scan switch” | | | **The Software menu options are configurable** |
| Scan List | Display the current scan list, which is read only | | |

**输入法 Input Method**

You can enter user aliases, numbers and text messages via the keypad. This product supports the English input method, Simplified Chinese Pinyin input method, and number input method.

**中文简体拼音输入法 Simplified Chinese Pinyin Input Method**

1. Press [#] to switch to Pinyin input method (LCD shows PY).

2. Press number buttons to enter the pinyin, and the LCD shows the alternate pinyin and corresponding candidate Chinese characters.

3. Press [▲]/ [▼] to select the desired pinyin.

4. Press the [MENU] button to move the highlight to the Chinese character area, and press [▲]/ [▼] to select the desired Chinese character.

5. Press the [MENU] button to enter the selected Chinese character. Repeat the above steps to complete the input.

**英文输入法 English Input Method**

1. Press [#] to switch to uppercase (LCD shows ABC) or lower case (LCD shows abc) English input method.

2. Press the number buttons repeatedly until the desired letter appears. Repeat the above steps to complete the input.

**数字输入法 Number Input Method**

1. Press [#]to switch to number input method (LCD shows 123).

2. Press the number buttons 0~9 to enter the corresponding number.

**输入特殊字符 Input Special Characters**

Press number button [1] to enter commonly used punctuation and special characters. To enter a space, press the [0] button.

**Note:** In the input text display area, press 【⏶】【⏷】【⏴】【⏵】 to move the cursor up/down/left / right.

**联系人菜单 Contact list settings**

Contact list provides "Address Book" for handheld walkie-talkies. Each entry corresponds to an alias or ID used to initiate the call. In addition, each entry is related to one of three types of call depending on the setting: group call, single call, all call. Your walkie talkie supports digital contacts.

   The entry in the contact list shows the following information:

   • Call type

   • Call alias

   • Call ID

**Note：** You can add, delete, or edit contacts to your digital contact list.

**呼叫类型图标 Call icon**

The following icons displayed on the LCD appear in the contact list or call log to indicate the ID type.

单呼A.jpg Single call: In the contact list, it indicates the signed user alias (name) or ID (number).

组呼B.jpg Group call: In the contact list, it indicates the group alias (name) or ID (number).

全呼C.jpg All call: In the contact list, it indicates the group alias (name) or ID (number).

**联系人列表 Contact List**

The contact list is used to save contact information and can store up to 512 records. You can access the “Contact list” from the “Contacts” menu, or press the [Contact list] shortcut to quickly access the “Contact list”.

**查看联系人 View Contact**

You can view the contact details.

**编辑联系人数字.jpg Edit Contact数字.jpg**

You can modify the number and alias of a contact (single call contacts only) in the contact list.

**删除联系人数字.jpg Delete Contact数字.jpg**

您可对联系人列表中的联系人进行删除。You can delete a contact in the contact list.

**新建联系人数字.jpg New Contact数字.jpg**

This menu allows you to create a new contact (single call contacts only) to the contact list. The alias and number of all contacts must be unique, and the range of entered contact number is 1~16776415.

Note:

●When entering a contact alias, you can press the [#] button to toggle the input method.

●In addition to creating contacts through this menu, you can also save numbers in the call log to the contact list.

**手动拨号数字.jpg Manual Dialing**

In the digital mode, press the 【#】 button to enter manual dialing, then you can manually enter a single call number, and press PTT to transmit; you can also enter a single call number, and press the 【MENU】 button to perform operations such as call prompt, radio detection, remote monitor, radio activation, and remote kill.

The functional description is as follows：

|  |  |
| --- | --- |
| Functional | Description |
| Call prompt数字.jpg | Send call prompt to a contact, and the other party can call back directly |
| Radio detection数字.jpg | Initiate radio detection to a contact without interfering with each other to confirm whether the other party has turned on the unit or uses in the current channel. |
| Remote monitoring数字.jpg | Remotely activate the microphone of a contact, and monitor the voice and background sound of the other party. |
| Radio activation数字.jpg | Send an activation command to a contact to resume normal use of the two-way radio. |
| Radio remote kill 数字.jpg | Send a remote kill command to a contact, so that the radio can’t be used normally. Remote kill two-way radio can be remotely monitored, but other functions can’t be used; it only allows re-writing frequency through CPS software or activating the radio through activation instructions |

**一键呼叫数字.jpg Push-to-call数字.jpg**

You can ask the dealer to set [Push-to-call] shortcut, and press the shortcut to initiate the corresponding operation. Specific operation categories are as follows:

Business on digital channels:

» For group call contacts, you can initiate a group call or send text message.

» For single call contacts, you can initiate single call, send text message, and initiate extended function. Extended functions include: call prompt, radio detection, remote monitor, activation, and remote kill..

**呼叫提示数字.jpg Call prompt 数字.jpg**

In digital mode, you can send call prompt to a contact, and the other party can call back directly

This feature is only available for user aliases or IDs, and can be accessed via the menu via Contacts or Manual Dialing.

### 

### 由联系人列表发起呼叫提示 Initiate a call prompt from the communication list

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select

3. Press 【▲】/【▼】 key to the desired user alias or ID, then press 【MENU】 key to select.

-Or press 【▲】/【▼】 key to manually dial, then press 【MENU】 key to select, flashing cursor appears, input the user ID you want to call, then press 【MENU】 key.

4. Press【▲】/【▼】 key to “call alert”, the screen displays the call prompt: <User alias or ID>, and then press the [MENU] key to indicate that the call has been sent.

5. When the walkie talkie send a call prompt, the LED indicator light is red.

6.If you receive a call confirmation, a tone sounds and a call alert appears.

- Or if no call alert confirmation is received, a beep sounds and the screen displays a call alert failure.

### 接收和确认呼叫提示 Receive and confirm call prompt

When you receive a call alert, the screen displays a call alert, alternating with the alias or ID of the calling walkie-talkie.

1. You will hear a repeat tone. The LED flashes red.

2. Press and release the [PTT] key to confirm the prompt, or press the [MENU] key to select "Ignore?" To ignored the call prompt.

**对讲机检测数字.jpg Radio detection 数字.jpg**

In digital mode, you can initiate radio detection to a contact without interfering with each other to confirm whether the other party has turned on the unit or uses in the current channel.

**发送****对讲机检测 Initiate radio detection:**

User menu function：

1. Press 【MENU】 key to enter the menu mode

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select

3. Press 【▲】/【▼】 key to the desired user alias or ID, then press 【MENU】 key to select.

- Or press 【▲】/【▼】 key to manually dial, then press 【MENU】 key to select, flashing cursor appears, input the user ID you want to call, then press 【MENU】 key.

4. Press【▲】/【▼】 key to “Radio Check”, the screen displays the radio check <User alias or ID>, and then press the [MENU] key to indicate that the call has been sent.

5. When the walkie talkie send radio detection, the LED indicator light is red.

6. If the target walkie-talkie is active in the system, a prompt is emitted and the screen briefly shows “Radio check success”.

**远程监听数字.jpg Remote monitor 数字.jpg**

This function works only if the function is set and turned on by writing-frequency software.

**发起远程监听 Initiate remote monitor**

User menu function：

1. Press 【MENU】 key to enter the menu mode

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select

3. Press 【▲】/【▼】 key to the desired user alias or ID, then press 【MENU】 key to select.

- Or press 【▲】/【▼】 key to manually dial, then press 【MENU】 key to select, flashing cursor appears, input the user ID you want to call, then press 【MENU】 key.

4.Press【▲】/【▼】 key to “Remote monitor”, the screen displays the remote monitor <User alias or ID>, and then press the [MENU] key to indicate that the call has been sent.

5. When the walkie talkie send remote monitor, the LED indicator light is red.

6.“Remote moni success”displays if it is successful, and “Remote moni fail” displays if fails.

**接收远程监听 Receive remote monitor**

After receiving the remote monitor command, it automatically starts transmitting voice and surrounding environment background sound, and exits automatically when the transmission time is up.

## 对讲机遥毙与激活 Radio activation and remote kill

You can activate or remote kill any walkie-talkie in the system.For example, you might want to disable a stolen walkie-talkie, prevent the thief from using it, and enable it when recovered.

## 激活或遥毙功能的上位机设置 Set activation and remote kill

In frequency software, the following operations are performed:

1. Edit -> DTMF-> signaling -> decode -> response type, select activation and remote kill;
2. DTMF number -> Enter the number;
3. Select the corresponding receiving signaling system (the same system as step 2) within the channel information and check decoding X (the same number as that required in step 2).
4. When the corresponding DTMF number is received, the corresponding ctivation and remote kill function will be realized.

**对讲机激活数字.jpg Radio activation 数字.jpg**

In digital mode, you can send an activation command to a contact to resume normal use of the two-way radio.

**发起对讲机激活 Initiate radio activation**

User menu function：

1. Press 【MENU】 key to enter the menu mode

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select

3. Press 【▲】/【▼】 key to the desired user alias or ID, then press 【MENU】 key to select.

- Or press 【▲】/【▼】 key to manually dial, then press 【MENU】 key to select, flashing cursor appears, input the user ID you want to call, then press 【MENU】 key.

4. Press【▲】/【▼】 key to “Radio active”, then press 【MENU】 key to select

5. The screen displays “Radio active” <User alias or ID>, the LED indicator light is red.

6. [Wait](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;) [for](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;) [confirmation](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;)

7. “Radio active success”displays if it is successful, and “Radio active fail” displays if fails.

**接收对讲机激活 Receive radio activation**

After receiving the radio activation command, send activation tone, re-shutdown and then boot. It can also be activated by writing frequency software.

**Note:** This function works only if the function is set and turned on by writing-frequency software.

**对讲机遥毙数字.jpg Radio remote kill 数字.jpg**

In digital mode, you can send a remote inhibit command to a contact, so that the radio can’t be used normally.User menu function：

**发起对讲机遥毙 Initiate remote kill**

1. Press 【MENU】 key to enter the menu mode

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select

3. Press 【▲】/【▼】 key to the desired user alias or ID, then press 【MENU】 key to select.

- Or press 【▲】/【▼】 key to manually dial, then press 【MENU】 key to select, flashing cursor appears, input the user ID you want to call, then press 【MENU】 key.

4. Press【▲】/【▼】 key to “Radio kill”, then press 【MENU】 key to select

5. The screen displays “Radio kill” <User alias or ID>, the LED indicator light is red.

6. [Wait](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;) [for](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;) [confirmation](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;)

7. “Radio kill success”displays if it is successful, and “Radio kill fail” displays if fails.

**接收对讲机遥毙 Receive remote kill**

After receiving the radio inhibit command, send inhibit prompt tone, and press the [PTT] button to display “Transmission failed and inhibited”. It can be activated by SMS writing frequency or wake-up.

Note: This function works only if the function is set and turned on by writing-frequency software.

### 由联系人列表发起组呼 数字.jpg Group call from the contact lists 数字.jpg

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select,

3. Press 【▲】/【▼】 to the desired group name or ID.

4. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

5. Press 【PTT】 key to initiate a call, LED indicator light is red. The screen displays the talk group alias or ID, as well as the group call icon呼出.jpg.

6. Release the [PTT] key to receive. When any user in the group responds, the LED will light green. You will see the group call icon user ID on the screen.

7. If the "Channel Idle Tone" feature is enabled, when the target radio releases the [PTT] key, you will hear a short beep indicating that the channel is free for you to answer. Press the call key (PTT) to answer. If there is no voice activity during the preprogrammed group call hang-up time, the call is terminated.

### 由联系人列表发起单呼数字.jpg Single call from contact lis 数字.jpg

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to contact list, then press 【MENU】 key to select, the items are arranged in alphabetical order.

3. Press 【▲】/【▼】 to the desired user alias or ID.

Or press 【▲】/【▼】 key to dial manually, then press 【MENU】 key to select. If there is a user alias or ID dialed previously, the ID is displayed with the blinking cursor and the keyboard is used to edit this ID.

Or press 【▲】/【▼】 key to dial manually, then press 【MENU】 key to select, use keyboard to input a new ID.

4. Hold the walkie talkie in its upright position and keep it at a distance of 1 to 2 inches (2.5 to 5.0 cm) from the mouth.

5. Press 【PTT】 key to initiate a call, LED indicator light is red. The first line shows the user's alias or ID, the second line shows the single and single call icons.

6. Release the [PTT] key to answer. When the radio responds, the radio LED lights up green and the screen displays the ID of the transmitting user.

7. If the "Channel Idle Tone" feature is enabled, when the target radio releases the [PTT] key, you will hear a short beep indicating that the channel is free for you to answer. Press the call key (PTT) to answer. If there is no voice activity during the preprogrammed single call hang-up time, the call is terminated.

8. You will hear a short tone; the screen shows the termination of the call.

注意——LOGOIf you release the PTT key while the walkie talkie is setting up a call, it exits without any hint and returns to the previous screen. walkie talkies can be preprogrammed to perform walkie-talkie presence detection prior to setting up a single call. If the target walkie talkie does not answer, you will hear a short beep, and the other party does not answer on the screen. The walkie-talkie returns to the menu before starting the walkie talkie presence test.

## 短信菜单数字.jpg SMS Function数字.jpg

### This product supports DMR data function, and allows sending and receiving messages; the maximum length of each message is 144 characters. And SMS lines cannot be more than 50 lines.

### 编辑和发送短信 Edit and Send Messages

Use the MENU function:

1.Press the【MENU】button to enter into the MENU mode.

2.Press the【▲】/【▼】button, Select “Message “,press the【MENU】button to select.

3.Press the【▲】/【▼】button, Select “New Message”, press the【MENU】button to select.

4.When blinking cursor appears, input the SMS by the keyboard, press the【▲】button to move to left one, press the【▼】button to move to right one.press【BACK】button to delete any useless character when there are contents in the edit area, or else it will return to the upper menu when there is no content in the edit area.

• press the 【\*】button to delete all contents in the editing area;Press 【#】 to switch input methods.

5.After finish the SMS content, press the【MENU】button to send or save or clear all.

6.After send, press the【▲】/【▼】button to the required name or ID, then press the【MENU】button to select.

Or press the【▲】/【▼】button to [Manual Dialing](C:/Users/Administrator/AppData/Local/youdao/dict/Application/7.5.0.0/resultui/dict/javascript:;), then press the【MENU】button to select, input the user ID and press the【MENU】button.

1. The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

8. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

Or if the message has not been sent, a high-pitched tone sounds and the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

### 发送预设短信 Send Prefabricated SMS

This product supports at most 32 prefabricated SMS programmed by the agent.

When a text message is predefined, you can edit each message before sending it.

Use the MENU function:

1. Press the【MENU】button to enter into the MENU mode.

2. Press the【▲】/【▼】button, Select “Message “,press the【MENU】button to select.

3. Press the【▲】/【▼】button, Select “Quick Text”, press the【MENU】button to select.

4. Press the【▲】/【▼】button to select required Prefabricated SMS ,press the【MENU】button to select.

5. When blinking cursor appears, input the SMS by the keyboard, press the [◁] button to move to left one, press the[▷]button to move to right one. press【BACK】button to delete any useless character when there are contents in the edit area, or else it will return to the upper menu when there is no content in the edit area.

• press the 【\*】button to delete all contents in the editing area;Press 【#】 to switch input methods.

6. After finish the SMS content, press the【MENU】button to send or save or clear all.

7. After send, press the【▲】/【▼】button to the required name or ID, then press the【MENU】button to select.

Or press the【▲】/【▼】button to [Manual Dialing](C:/Users/Administrator/AppData/Local/youdao/dict/Application/7.5.0.0/resultui/dict/javascript:;), then press the【MENU】button to select, input the user ID and press the【MENU】button.

8. The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

### 9. If the message sent successfully, a beep sound, and the screen shows the message has been sent. Or if the message has not been sent, a high-pitched tone sounds and the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

使用单键呼叫键发送预设短信 Use the one-touch call button to send prefabricated SMS

## 1. Press the pre-programmed one-touch call; send a prefabricated SMS to a predefined alias or ID.

## 2. The LCD shows the SMS :< User/Call group alias or ID>, confirm that the SMS is being sent.

## 3. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

## Or if the message has not been sent, the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

## 接收短信 Receive SMS

## When your radio is receiving a SMS, the screen displays the sender's alias or ID and a text message icon on the left. Press【MENU】 to view the message.Press the 【⏶】/【⏷】 button to select later to view or delete messages.

## When receive SMS, you can choose below options:

## • Read

## • Read later

## • Delete

注意——LOGO If you press the【PTT】button while the radio is displaying the prompt screen, the radio will exit the SMS prompt screen and establishes a individual call or group call.

### 查看短信 Check the SMS

Use the MENU function:

1. Press the【MENU】button to enter into the MENU mode.

2. Press the【▲】/【▼】button, Select “Message “,press the【MENU】button to select.

3. Press the【▲】/【▼】button, Select “InBox”, press the【MENU】button to select.

4. Press the【▲】/【▼】button to select unread messages ,press the【MENU】button to read this message

•When the chosen SMS opened in the inbox and this SMS was sent from Email program, and then it will appear a subject line.

5. Press the【BACK】button to return to inbox.

* Or press the【MENU】button to reply/transfer/delete SMS.

### 管理收到的短信 Manage the received SMS

This product will save the received message in the Inbox and can store up to 50 received messages.

Support below SMS options:

• Reply

• Transfer

• Delete

• Delete All

Store messages in your inbox according to the most recently received in sequence.

注意——LOGOYou can return to the previous screen by pressing the【BACK】button at any time.

### 查看收件箱中的短信

Use the Menu function:

1. Press the【MENU】button to enter into the MENU mode.

2. Press the【▲】/【▼】button, Select “Message “,press the【MENU】button to select.

3. Press the【▲】/【▼】button, Select “InBox”, press the【MENU】button to select.

4. Press the【▲】/【▼】button to read SMS, if this SMS was sent from Email program, then it will appear a subject line.

5. Press the【MENU】button to the current SMS, then press the【MENU】button again to reply/delete/forward this SMS.

6. Press the【BACK】button to return to inbox.

* 注意——LOGO Indicates unread message.  Indicates read message.

### 

### 回复收件箱中的短信 Reply the SMS in the inbox

Use the Menu function:

1.Press the【MENU】button to enter into the MENU mode.

2.Press the【▲】/【▼】button, Select “Message ”,press the【MENU】button to select.

3.Press the【▲】/【▼】button to Inbox, press the【MENU】button to select.

4.Press the【▲】/【▼】button to required SMS, then press the【MENU】button to select.

if this SMS was sent from Email program, then it will appear a subject line.

5.Press the【MENU】button again to enter into the sub-menu.

6.Press the【▲】/【▼】button to reply, then press the【MENU】button to select.

7.Press the【▲】/【▼】button Write SMS, then press the【MENU】button to select. When a blinking cursor appears, edit text messages by the keyboard.

-Or press the【▲】/【▼】button to the prefabricated SMS, then press the【MENU】button to select. After choose the required SMS, a blinking cursor will appear when press the【MENU】button, and you can edit your SMS by keyboard if necessary.

8. After finish the edit, press the【MENU】button.

9. The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

10. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

- Or if the message has not been sent, the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

### 

### 删除收件箱中的短信 Delete the SMS in the inbox

### Use the Menu function:

### 1.Press the【MENU】button to enter into the MENU mode.

### 2.Press the【▲】/【▼】button, Select “Message ”,press the【MENU】button to select.

### 3.Press the【▲】/【▼】button to Inbox, press the【MENU】button to select.

### 4.Press the【▲】/【▼】button to required SMS, then press the【MENU】button to select.

### if this SMS was sent from Email program, then it will appear a subject line.

### 5.Press the【MENU】button again to enter into the sub-menu.

### 6.Press the【▲】/【▼】button to delete, then press the【MENU】button to select.

### 7.Press the【▲】/【▼】button to “YES” when the Delete appears, then press the【MENU】button to select.

### 8. The screen will show the SMS has been deleted.

### 9. The screen will return to the inbox.

### 删除收件箱中的所有短信 Delete all the SMS in the inbox

Use the Menu function:

1.Press the【MENU】button to enter into the MENU mode.

2.Press the【▲】/【▼】button, Select “Message ”,press the【MENU】button to select.

3.Press the【▲】/【▼】button to Inbox, press the【MENU】button to select.

4.Press the【▲】/【▼】button to delete all, then press the【MENU】button to select.

5.Press the【▲】/【▼】button to “YES” when the Delete appears, then press the【MENU】button to select.

6. The screen will show the inbox was emptied.

-When you choose”Inbox” and find there is no SMS, the screen will indicate there is empty in the list, and if the key tone is opened, a low tone beep sounds.

### 

### 管理发送失败的短信 Manage the failed SMS

In the re-send selection screen, you can choose below options:

• Re-send

• Forward

• Edit

**重发短信 Re-send SMS**

1. Press the【MENU】button to re-send the same SMS to the same user/call group alias or ID.
2. 2. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

Or if the message has not been sent, the screen shows that the message has failed to be sent.

**转发短信 Forward SMS**

Choose forward to send the SMS to another user/call group alias or ID.

1. Press the【▲】/【▼】button to select “Forward” ,press the【MENU】button to select.

2. Press the【▲】/【▼】button to required alias or ID ,press the【MENU】button to select.

- Or press the【▲】/【▼】button to [Manual Dialing](C:/Users/Administrator/AppData/Local/youdao/dict/Application/7.5.0.0/resultui/dict/javascript:;), then press the【MENU】button to select, input the user ID and press the【MENU】button.

3.The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

4. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

- Or if the message has not been sent, the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

**编辑短信 Edit SMS**

Choose Edit to write SMS before send it out.

注意——LOGOIf there is a subject line (as to the SMS received from the Email program), then you can’t edit to this subject line.

1. Press the【▲】/【▼】button to Edit, then press the【MENU】button to select.

2. When blinking cursor appears, input the SMS by the keyboard, press the[◁]button to move to left one, press the[▷]button to move to right one. press【BACK】button to delete any useless character when there are contents in the edit area, or else it will return to the upper menu when there is no content in the edit area.

● press the 【\*】button to delete all contents in the editing area;Press 【#】 to switch input methods.

3. After finish the SMS content, press the【MENU】button to send or save.

4. After send, Press 【MENU】 to select the contact, press the【▲】/【▼】button to the required name or ID, then press the【MENU】button to select.

* Or press the【▲】/【▼】button to [Manual Dialing](C:/Users/Administrator/AppData/Local/youdao/dict/Application/7.5.0.0/resultui/dict/javascript:;), then press the【MENU】button to select, input the user ID and press the【MENU】button.

5. The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

### 6. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

### - Or if the message has not been sent, the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen.

### 管理已发送短信 Manage the already sent SMS

The SMS was sent to another radio, it will be saved to “Sent item” file. The sent SMS will be always added to the top list of “Sent item”. The “Sent item” file can store at most 50 SMS sent recently. When the file is full, the next sent SMS will automatically update the SMS record.

注意——LOGOPress the【BACK】button to return to the previous screen at any time.

**查看已发送短信 Read the already sent SMS**

Use the Menu function:

1. Press the【MENU】button to enter into the MENU mode

2. Press the【▲】/【▼】button, Select “Message ”,press the【MENU】button to select.

3. Press 【⏶】/【⏷】to send the Outbox, and then press【MENU】 to select the outbox list.

4. Press the【▲】/【▼】button to required SMS, then press the【MENU】button to select.

If the SMS was sent by Email program, it will appear a subject line, the icon at the top right of the screen indicates the state of the SMS.

**发送已发送的短信 Send the already sent SMS**

When read the already sent SMS, you can choose below options:

• Re-send

• Forward

• Edit

• Delete

1.When reading the SMS, press the【MENU】button again.

2.Press the【▲】/【▼】button, Select “Re-send”, press the【MENU】button to select.

3.The LCD shows the “Msg Sending”, confirm that the SMS is being sent.

4. If the message sent successfully, a beep sound, and the screen shows the message has been sent.

- Or if the message has not been sent, a high-pitched tone sounds and the screen shows that the message has failed to be sent. If the message fails to be sent, the radio will return to the re-send selection screen. Press the【MENU】button to re-send to the same user/call group alias or ID.

注意——LOGO Besides press the【MENU】button and the【▲】/【▼】button, you can return to this SMS by changing the volume or pressing any other button.The radio will exit the re-sent selection screen when you press the【MENU】 button to make a individual call or group call or when you response to group call. And you receive SMS/telemetry message/an emergency call or an alarm. Or you receive a call alert; the radio will also exit the re-sent selection screen. The screen list will return to the re-sent selection mode when you press the 【MENU】button to response to individual call(except when the radio indicates the call screen is not received), or when the group call finished. By pressing the【▲】/【▼】button, enter into the transfer/edit/delete selection screen.

• Choose Transfer; send the selected SMS to other group call/user alias or ID.

• Choose Edit, edit the SMS before send it out.

• Choose Delete, delete the selected SMS.

注意——LOGO If you exit the SMS sent screen when you send the SMS, the radio will update the SMS state in the “Already sent item” file, and will not show the reminder or any beep. If the radio mode changed or out of power before the “Already sent item” updated, the radio will not handle the sending SMS, and will show a icon indicated sent failed. Our radio will solve 5 SMS at the same time. And the radio can’t send new SMS and will automatically show a icon indicated sent failed at this stage.

**在“发件列表 ”里删除所有已发送短信 Delete the already sent SMS in “Already sent item” file**

Use the Menu function:

1. Press the【MENU】button to enter into the MENU mode.

2. Press the【▲】/【▼】button, Select “Message ”,press the【MENU】button to select.

3. Press 【▲】/【▼】 to the OutBox, then press 【MENU】 key to select.

4. Press the【▲】/【▼】button, Select “OutBox”, press the【MENU】button to select.

5. Press the【MENU】button when delete SMS. And choose “YES”, the screen will indicate the entire sent item is cleared.

-Or Press the【▲】/【▼】button to “NO” when delete SMS, and press the【MENU】button to return to the previous screen.

When you choose ”Already sent item” and find there is no SMS, the screen will indicate there is empty in the list, and if the key tone is opened, a low tone beep sounds.

**草稿箱 Drafts**

This product will save the edited messages in the drafts and support up to 20 draft messages. When the Drafts are full, if a new message is saved to the drafts, the earliest messages will be overwritten automatically.

You can perform the following operation for any message in the drafts: Send, edit, and delete.

When you send the message in the drafts, this product will save this message to the Outbox and delete it from the drafts.

If you want to delete all messages in the drafts, select “SMS -> Drafts -> Delete All”.

**预设短信 Preset Message**

This menu has messagespre-set by the dealer. This product supports up to 32 shortcut messages. You can choose a shortcut message to send directly, or edit the message and then send.

## 呼叫记录菜单 Call log

Your transceiver can record all dialed, picked-up and missed calls recently. Use call logging to view and manage calls recently.

### 查看最新呼叫号码 Check the latest call number

### Menu items have missed calls, received calls and dialed calls.

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to Call Logs, then press 【MENU】 key to select.

3. Press 【▲】/【▼】 to the desired list, then press 【MENU】 key to select.

4. The screen shows recent entries at the top of the list.

5. Press 【▲】/【▼】 key to view the list, press 【PTT】 key to start a call with the currently selected alias or ID.

### 未接呼叫屏幕 Missed call screen

Whenever a missed call is placed, the transceiver will display a missed call message, select to view or check later.

注意——LOGO If you press the PTT key when viewing missed call numbers, the radio exits the Missed Call Screen and establishes a one-way call.

1. The screen displays Missed Calls, Missed Calls and View.

2. Press 【MENU】 key to check missed call ID, missed call record list will be displayed on the screen. Press 【MENU】 to save or delete this item; or press 【▲】/【▼】 key to check later, then press 【MENU】 key to select and return to the main screen.

### 存储未接呼叫列表中的别名或ID Store an alias or ID from the list of missed calls

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to Call Logs, then press 【MENU】 key to select.

3. Press 【▲】/【▼】key to missed call, then press 【MENU】 key to select.

4. Press 【▲】/【▼】 key to the missed call alias or ID, then press 【MENU】 key to select.

5. Press【▲】/【▼】key to save, then press 【MENU】 key to select.

6. A blinking cursor appears, enter the ID's alias if needed, and then press the【MENU】key.

7. The screen shows that the contact has been saved.

You can also enter an alias ID.

### 删除呼叫列表中的呼叫 ■Delete the call in the call list

1. Press 【MENU】 key to enter the menu mode.

2. Press 【▲】/【▼】 key to Call Logs, then press 【MENU】 key to select.

3. Press 【▲】/【▼】 key to the desired list, then press 【MENU】 key to select.

4. Press 【▲】/【▼】 key to the desired alias or ID, then press 【MENU】 key to select.

5. Press 【▲】/【▼】 to delete the entry? , Then press 【MENU】 key to select whether to delete the item.

6. Select "Yes" to delete the entry by pressing the [MENU] key. The entry appears on the screen. Or, select "No" and press the [MENU] key to return to the previous screen.

When you select a call list but there is no entry in it, the screen will display a blank list. At this moment, if the keyboard tone is on, a bass tone sounds.

## 扫描菜单 **Scan [function](D:/Program%20Files%20(x86)/Dict/8.1.2.0/resultui/html/index.html" \l "/javascript:;)**

注意——LOGOThe scan function must to off double wait before it can be used.

The scan function helps you to receive the communication activity from other channels or groups call, further to know the current activity of the relative team members. The radio can support up to 250 scan lists with a maximum of 31 members. Every scan list supports the mix of analog and digital channels. You can add/delete channel or prioritize channel by editing scan list.

### 查看扫描列表 Scan the list

1. Use the【⏶】/【⏷】 to choose a channel with pre-programmed scan list;

2.Press the【MENU】button to enter into the MENU mode;

3.Press the【▲】/【▼】button to scan, then press the【MENU】button to select;

4.Press the【▲】/【▼】button to read the list, then press the【MENU】button to select;

5.Use the【▲】/【▼】button to read every member in the list.

If you set the priority, the priority icon will be displayed to the left of member alias, that means this member is priority 1 扫描_优先1channel or priority 2 扫描_优先2channels , and if the priority is set as扫描, the icon will not displayed. Several priority 1 channel or priority 2 channels is not allowed in one scan list.

Or Select to delete a channel in the current scan list, but you cannot delete the first channel in the scan list.

**添加扫描信道 Add scan channel**

### 1.Press the【MENU】button to enter into the MENU mode.

### 2.Press the【▲】/【▼】button to scan, then press the【MENU】button to select.

### 3.Press the【▲】/【▼】button to add channel, then press the【MENU】button to select.

### 4.Press the【▲】/【▼】button to choose the required add channel, then press the【MENU】button to select.

### 5. The screen indicates “Success to add channel” and back to the upper menu automatically.

### 扫描指示和方法 Scan instruction and method

The radio will check if there are any voice activities to the current channel by pre-program the scan list cycling. The red LED indicator light flash and the scan icon扫描 will appear in the screen.

During the duplex mode scan period, if you are on a digital channel and your radio locks an analog channel, the digital mode will be automatically switched to analog mode during the entire duration call.

There are two ways to scan:

• Manual scan: start to scan by pre-programming the scan turn on/turn off button or the menu function, when start to scan, the radio will detect all the channels/group calls pre-set in the scan list.

• Automatically scan: when you choose a channel/group calls which have been activated, the radio will start to scan from the automatically scanned channel.

### 启动和停止扫描 Start and stop scan

Press the pre-programmed scan turn on/turn off button or enter into the scan menu function

1. Use the channel knob to choose a channel with pre-programmed scan list;

2.Press the【MENU】button to enter into the MENU mode;

3.Press the【▲】/【▼】button to scan, then press the【MENU】button to select;

4. If the scan was stopped, the screen will indicate to open, or if the scan is activated, the screen will indicate to close.

5.Use the【MENU】button to select.

6. When the scan is activated, the red LED indicator light flash, and the scan icon 扫描will appear in the screen;

Or when the scan is stopped, the LED light will be off and no scan icon is displayed.

### 扫描回复 Scan Reply

During scan, the radio will stop at the channel/group calls when the radio detect activity channel/group calls,

This is called as the pre-programmed time limit for the “Scan suspend time”

Progress:

1. Hold the radio in a vertical position and keep it 1-2 inches (2.5-5.0cm) from your mouth. If the function of “Free channel beep” enabled. you will hear a short beep sound when release the 【PTT】button, this indicates the channel is free and wait for your reply.

2.Press the【PTT】button during the suspend time. The LED light is red.

3.Release the【PTT】button to receive.

4.If you don’t response during the suspend time, the radio will go on scanning.

**设置菜单 Menu setting**

**对讲机设置 Radio setting**

You can make the following settings according to your own preferences and actual needs, so as to maximize their performance.

The setting method: Enter into the menu “Setting ->Radio setting”, select the corresponding setting to set. The press 【MENU】 to enter the radio Settings.

The setting items are as below list:

|  |  |  |
| --- | --- | --- |
| Setting options | Options and Range | Description of operation |
| 1.Squelch | Strict | Strictly filter the useless calls or background noise |
| Normal | Normally filter the useless calls or background noise |
| 2.TX Power | Low | Low power transmission |
| High | High power transmission |
| 3.Talk around | On | ON; the function works only when “Allow offline” of current channel of the Software is ticked |
| Off | OFF |
| 4.Busy lock | Off | Transmit when the channel is occupied |
| Carry | Press PTT to prohibit transmission when there is carrier wave |
| QT/CC | Match sub-audio / color code forbidden |
| 5.Transmit time-out timer（TOT） | OFF | Off, no transmission limit |
| 15～495S | Alarm in 10 seconds before transmission, and prohibit transmission when the time is up; for example, when it is set to 60 seconds, alarm is sent for 10 seconds from the50th second, and transmission is prohibited at the 60th second |
| 6.VOX | Off | VOX is turned off; |
| On | It is not necessary to press PTT when this option is on; you can speak to transmit directly; voice sensitivity of the host computer can be set to 1~10, level 1 is the highest sensitivity level, and level 10 is the lowest sensitivity level |
| 7.Double wait | Off | Single channels mode |
| Single Wait | Switch upper and lower channels through the keypad; when the machine works in the main channel, the sub-channel can’t transmit or receive |
| Double Wait | Scan main channel and sub-channel in turn; call is locked when the reception is effective; you can press PTT to talk with the other party |
| 8.Encrypt | Off | Turn off encryption |
| On | Turn on encryption function, and the two sides must pair the key to make the call normally |
| 9.Power Save | Off | Turn off power saving mode |
| On | Turn on the power saving mode; power saving ratio is 1:4 |
| 10.Beep | All Tone | Options: Off/On. Turn off all tones when Off is selected, but do not include emergency alarm tone |
| Call Permit | Options: Off / Digital / Analog. Pressing the PTT button will transmit the signal through the channel and will sound a tone that prompts the user to start speaking.   * OFF: Turn off this function * Digital: Enable this tone only for digital channels * Analog: Enable this tone only for analog channels * Digital and Analog:Enable this tone for analog channels and digital channels |
| Key Beep | Options: Off/On. There is no prompt tone when Off is selected |
| 11.Backlight | Always On | Always on (power saving disabled) |
| Always Off | Always Off |
| 5/10秒 | Turn off the backlight automatically when the time is up |
| 12.Keypad Lock | Manual | Press and hold # to lock, press MENU and \* to unlock |
| 5/10/15 sec | Auto lock; lock automatically at set time; press MENU and \* to unlock |
| 13.LED Indicator | Off | The indicator (transmission, receiving, boot, etc.) does not work when it is off |
| On | Default option is on |
| 14.Password Lock | Enter password | Input correct password to enter the setup menu; the password can be configured by default on host computer  Options: On or Off / Changes boot password   * On or Off: Turn on if it is turned off, and turn off if itis turned on; when On is selected, you need to enter the correct password and press the MENU button to start the unit * Change boot password: You can enter a new password not more than 6 digits; please remember after changing |
| 15.Mode | CH NO. | The channel mode is displayed by channel number |
| CH NAME | The channel mode is displayed by channel name |
| CH Freq | The channel mode is displayed by frequency mode |
| 16.Screen | Picture | Display according to the picture provided by the customer |
| Character | Two lines, can be edited by Software |
| 17.Language | English | English version, including menu, call tips, call logs and all other interfaces |
| Chinese | Simplified Chinese |
| 18.CTCSS/DCSA.jpg | C CTC/DCS | **Change the encoding and decoding of CTCSS/DCS. Press [A/B] to selec “CTCSS/DCS”, press [▲]/[▼] to select CTCSS/DCS code, press # to switch the positive phase (N) and negative phase (I).**  **● Press [A/B] to select “CTCSS/DCS codec OFF”, press [▲]/[▼] to select analog CTCSS/DCS frequency.**  **● You can also enter CTCSS/DCS with keypad, press the [MENU] button to confirm, and press** 【BACK】 **to return.** |
| R CTC/DCS | Change the decoding of CTCSS/DCS. Setting method is same as above |
| T CTC/DCS | Change the coding of CTCSS/DCS. Setting method is same as above |

### 设置静噪级别 Squelch

You can adjust the squelch level of walkie talkie, filters unusable calls of low signal strength or channels of background noise that higher than normal value.

Normally it is default value (that is regular filtering); strictly filter unwanted calls or background noise, in the same time, calls from remote locations can also be filtered out.

Press preprogrammed strict/normal squelch key to switch the squelch level between normal and strict.

The menu functions 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 “squelch”, then press【MENU】to select.
5. Choose “strict” or “norma”l, then press【MENU】to select.
6. Press【BACK】return to the home screen.

### 设置发射功率 TX Power

This function can achieve quick switch of high/medium/low power. When communication distance meets your requirements, low power can be selected to save power. When low power does not enable you to communicate with other walkie-talkies away from distance, and then please choose high power.

According to the preprogrammed [Power Level Adjustment] shortcut keys, switch transmitting power of the current channel between high, medium and low. You can set the transmitting power level of each channel to be high or low. The menu functions 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 “TX power”, then press【MENU】to select.
5. Follow the screen prompt to change the current Settings.
6. Press【MENU】to select new power level.
7. Return to the previous menu.Press【BACK】return to the home screen, and screen displays the power level icon

注意——LOGOAn H above the screen indicates the current high power; M indicates the current medium power; L indicates the current low power.

### 脱网 Talk around

In case of the repeater failure or beyond the coverage of the repeater station, but both terminals are in the other's communication range, at this time, you can press the【Off】 shortcut button to switch to the direct mode, further to achieve directly communication between two terminals.

Press the pre-programmed 【Repeater / Off】 shortcut button to open the offline function; press this button again to turn off this function.

The menu function operated as below:

1.Press the【MENU】button to enter into the MENU mode.

2.Press the【▲】/【▼】button to setting, then press the【MENU】button to select.

3.Press the【▲】/【▼】button to radio setting, then press the【MENU】button to select.

4.Press the【▲】/【▼】button to off line, then press the【MENU】button to select.

5. If the radio is in the repeater station mode, the screen indicates “turn off”, or if the radio is under off-line mode, the screen indicates “turn off”.

6. Press the【MENU】button to select.

7. The screen indicates the off-line is turn on, the iconflash, or the screen indicates off-line is turn off.

8. The screen back to the upper menu automatically.

* Even when the radio is turn off, the radio is kept off-line situation.

**繁忙禁发 Busy lock**

This function can be enabled by writing-frequency software to prevent interference with other users that are transmitting on the same channel. If you press and hold the [PTT] button while other users occupy the channel, the product will beep and display “Transmission failed, sub-audio disabled” or “Transmission failed, color code disabled”, prompting that transmission is disabled at this time. When the channel is idle, you need to press and hold the [PTT] button to transmit

The menu function operated as below:

1. Press【MENU】to enter menu mode.

2. Press【▲】/【▼】to set, then press【MENU】to select.

3. Press【▲】/【▼】to the radio set, then press【MENU】to select.

4.Press【▲】/【▼】to “Busy lock”, then press【MENU】to select.

5.The screen shows indicate Off or Carry or QT/CC, press【▲】/【▼】 to the corresponding option, then press【MENU】to confirm and return to the previous menu.

### 

### 发射时限 **Transmit time-out timer(TOT)**

The setting of the time-out timer function prevents the user from occupying the channel for a long time. If the continuous transmitting time exceeds the time set by the distributor, the radio will stop transmit and make the warning sound. If want to stop the warning sound, please loose【PTT】. If you need to transmit again, please press the PTT button again after a period of time (specifically set by the dealer)

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to “TOT”, then press【MENU】to select.
6. The screen shows infinity, 15S, 30S... 555S option (additive increase in the range of 15S), press【▲】/【▼】 to the corresponding option, then press 【MENU】to select, if you select to infinity, then the screen display turn off the time-out timer, if you select others, the screen display xxS has been selected.

注意——LOGOIn the emergency alarm mode, this function is invalid.

### 声控传输(VOX) 打开或关闭 **VOX**

This function allows you to initiate voice activation for hands-free calls on programmed channels. Regardless of when the microphone on the attachment with VOX function detects the voice, the radio will automatically transmit the signal during the programmed time period.

Press the【PTT】during the radio operation will disable the VOX function, to re-enable the VOX function need perform one of the following operations:

• Close and re-open the radio;

• Change channel through channel knob;

• Perform the following procedure:

注意——LOGOEnabling or disabling this function that is limited to radio of activating these functions. The voice sensitivity of VOX is set in the radio configuration.

To turn on or off this function by pre-programmed VOX open/close key.

The menu functions 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 the VOX, then press【MENU】to select.
5. The screen displays open, press【MENU】to enable the VOX function.

• Or the screen shows off and press【MENU】to turn off the VOX function.

### 双待模式选择 Double wait

The menu functions as follows:

1. Press【MENU】to enter menu mode.

2. Press【▲】/【▼】to set, then press【MENU】to select.

3. Press【▲】/【▼】to the radio set, then press【MENU】to select.

4. Press【▲】/【▼】to the Double wait, then press【MENU】to select.

5. The screen displays “Off /Double Wait/Single Wait”. then press【MENU】to select.

6. Press【MENU】to confirm and return to the previous menu.

#### 数字加密 Encrypt

In digtal mode, Turn on encryption function, and the two sides must pair the key to make the call normally.

The menu functions 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 the Encrypt, then press【MENU】to select.

5. Press【▲】/【▼】to the select encrypt Off or On, then press【MENU】to confirm and return to the previous menu.

#### 省电开关 Power Save

After the power save function is on, the radio enters the power save mode after 10 seconds in standby mode to save battery power.The power saving ratio is 1:4.

The menu functions 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 the Power Save, then press【MENU】to select.

5. Press【▲】/【▼】to the select power savet Off or On, then press【MENU】to confirm and return to the previous menu.

### 

### 设置提示音 Beep

Including below options:

* All Tones
* Call Permit
* Key Beep

#### 全部音调 All tones

If necessary, you can start or stop all the radio tones and prompt tones (except the emergency tones)

Turn on or turn off all the radio tones according to the all tones on/off by pre-programmed.

The menu function operated as below:

1.Press the【MENU】button to enter into the MENU mode.

2.Press the【▲】/【▼】button to setting, then press the【MENU】button to select.

3.Press the【▲】/【▼】button to radio setting, then press the【MENU】button to select.

4.Press the【▲】/【▼】button to tone/prompt one, then press the【MENU】button to select.

5.Press the【▲】/【▼】button to “all tones”, then press the【MENU】button to select.

6.Press the【MENU】button to choose turn on, then all the tones and prompt tones started, the screen indicates” All tones applied”

* Or press the 【MENU】button the choose turn off, then all the tones and prompt tones turned off, the screen indicates “All tones cancelled”

#### 键盘音 key Beep

If needed, you can activate and deactivate keyboard sounds of keystrokes. The menu functions 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 tone/hint, then press【MENU】to select.
5. Press【▲】/【▼】to “Key Beep”, then press【MENU】to select.
6. Press【MENU】and select open, then turn on keyboard sounds, and screen will display "keyboard sound application".

• Press【MENU】and select close, then turn off keyboard sounds, and screen will display "keyboard sound cancellation"

### 设置背光灯 Backlight

You can turn on or off the screen backlight of the walkie-talkie if needed. This setting will also affect the back light of the menu and numeric keyboard.

According to the pre-programmed backlight automatic on-off key, switches backlight Settings. The menu functions 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 backlight, then press【MENU】to select.
5. The screen indicates normally open, normally off,5S, 10S, 15S options, press【MENU】to select normally open, then screen backlight is always open and light.

• Or if select 5S, 10S, 15S, the screen will turn off the screen backlight without any operation after the corresponding time.

### 键盘锁定和解锁 Keypad Lock

You can lock the radio keyboard to prevent accidental keystrokes. Methods include manual keyboard locking and automatic keyboard locking; among them the automatic keyboard locking includes 5S, 10S, 15S three time options. The menu functions 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 the keypad lock, then press【MENU】to select.
5. Press【▲】/【▼】to manual option, then press【MENU】to select, the screen displays manual selection. ·The keyboard needs to be long pressed【\*】on the main screen to lock the keyboard.

6.Press【▲】/【▼】to 5S,10S,15S, the screen displays the corresponding time. Then, when the user does not have keyboard operation in the corresponding time, the screen shows lock and returns to the home screen.

7.To unlock the keyboard, press【MENU】first ,then press【\*】

8.The screen shows the keyboard unlocking and returns to the home screen.

### 指示灯开启或关闭 LED Indicator

If needed, you can enable and disable the LED indicator light. The menu functions 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 the LED indicator light, then press【MENU】to select.
5. The screen displays “open”, press【MENU】to enable the LED indicator light, and the screen displays it is open.

• Or the screen shows “off” and press【MENU】to turn off the LED indicator light, the screen displays it is close.

**开机密码** **Password Lock**

The menu functions 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 the power-on password, then press【MENU】to select.
5. Type the correct 8-bit password (can preset with the software), then press【MENU】to select.
6. If the password is incorrect, the screen displays the wrong password. Display options if the password is correct.
7. If the first line indicates open, press【MENU】 to display the power-on password application, and then you need to type the correct password to start the radio at the next boot. If the first line indicates close, press 【MENU】 to display the boot password cancellation, and start the radio directly at the next boot.
8. Press【▲】/【▼】to change power-on password, then press【MENU】to select.
9. Type the new 8-bit password, then press【MENU】to select.
10. Type the new 8-bit password again, then press【MENU】to select.
11. Display password change successfully.

注意——LOGO**The power-on password must be set to 6-bit.**

**模式选择 Mode**

Mode setting divided into:

• Serial number display: display the channel number

• Name display: displays the channel name

• Frequency display: display the channel frequency

The menu functions 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 the mode setting, then press【MENU】.
5. Press【▲】/【▼】to select “Serial numbe” “channel mode” or “frequency mode”, then press【MENU】to select the corresponding mode, the screen display the mode is selected.
6. The main interface will display the channel name or frequency (receiving frequency) according to the selected mode.

注意——LOGOIn frequency mode, long press 【VFO/MR】 to switch between frequency mode and channel mode. In frequency mode, you can manually type the frequency.

### 开机界面设置 Screen

If needed, you can enable and disable the boot screen display. The menu functions 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 the boot screen, then press【MENU】to select.
5. Press【▲】/【▼】to select “images” or “default character”, then press【MENU】 to enable the corresponding boot screen.

注意——LOGOThe radio’s boot screen can be set to simple images or short characters by software.

### 语言选择 **Language**

This radio supports both Chinese and English language. The menu functions 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 language selection, then press【MENU】to select.
5. Press【▲】/【▼】to select the corresponding language, then press【MENU】to select.
6. The screen shows the language selected and returns to the main screen.

**哑音频A.jpg CTCSSA.jpg**

CTCSS can be set only under the simulated channel, includes:

• CTCSS encode

• CTCSS decode

#### 哑音频CTC/DCS编码 **CTCSS encode**

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to CTCSS, then press【MENU】to select.
6. Press【▲】/【▼】to CTCSS encode, then press【MENU】to select.
7. The screen shows “OFF” or a group of CTCSS decode number, press【▲】/【▼】to close or select CTCSS decode number .

·The keyboard can also be enter manually.

·Press【\*】 key to switch to DCS, 【⏶】/【⏷】 key to select DCS code, press 【#】 key to switch between positive phase (N) and negative phase (I)

8.Then press 【MENU】to select, which already set the corresponding CTCSS decode value, the screen displays CTCSS encode XX.

#### 哑音频解码 **CTCSS decode**

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to CTCSS, then press【MENU】to select.
6. Press【▲】/【▼】to CTCSS decode, then press【MENU】to select.
7. The screen shows “OFF” or a group of CTCSS decode number, press【▲】/【▼】to close or select CTCSS decode number .

·The keyboard can also be enter manually.

·Press【\*】 key to switch to DCS, 【⏶】/【⏷】 key to select DCS code, press 【#】 key to switch between positive phase (N) and negative phase (I)

8.Then press 【MENU】to select, which already set the corresponding CTCSS decode value, the screen displays CTCSS encode XX.

**对讲机信息查看 Radio information query**

Check the relevant information of this product, including: the radioModel information, serial number, CPS version, hardware version, firmware version, DSP version, programming time, etc information.

注意——LOGOYou can go back to the previous screen at any time by pressing【BACK】.

### 检查本机号码 **Check radio ID**

The menu functions 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 the radio number, then press【MENU】to select.
5. The screen shows the radio ID and name.This information can only be accessed but cannot be modified

* 检查设备信息 **Check radio version**

Check and indicate this radio’s Model information, serial number, CPS version, hardware version, firmware version, DSP version, programming time, etc information.

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio information, then press【MENU】to select.
4. Press【▲】/【▼】to the radio version, then press【MENU】to select.
5. The screen shows the current Model information, serial number, CPS version, hardware version, firmware version, DSP version, programming time, etc information.
6. Press 【BACK】 to return to the previous menu.

**对讲机配置数字.jpg Radio configuration**

The product configuration is listed below:

|  |  |
| --- | --- |
| Configuration | Operating instructions |
| 1.Reception frequency | To set reception frequency; press \* to clear all, press BACK to delete one |
| 2.Transmission frequency | To set transmission frequency; press \* to clear all, press BACK to delete one |
| 3.Channel name | To set channel name; press \* to clear all, press BACK to delete one |
| 4.Color code | * Options: 0~15 optional * Valid for digital mode only |
| 5.Time slot | * Options: 1~2 optional * Valid for digital mode only |
| 6.Shift frequency | The difference between transmission frequency and reception frequency in frequency mode, whether frequency has difference depends on frequency direction |
| 7..Shift frequency direction | Options: Off / Positive / Negative   * Off: Transmission frequency and reception frequency have no difference in frequency mode * Positive: In frequency mode, the transmission frequency is equal to the reception frequency plus the difference frequency * Negative: In frequency mode, the transmission frequency is equal to the reception frequency minus the difference frequency |
| 8.Frequency step | Options: 2.5K/5.0K/6.25K/10K/12.5K/25K/50K   * In the frequency mode, press [▲]/[▼]to adjust the frequency value in steps; scan in steps in frequency mode |
| 9.Channel type | Options: Analog / Digital   * Switch analog and digital mode in frequency mode |

The radio configuration is mainly to edit the channel content. Configure paths: enter the Settings -> radio configuration menu, and select the corresponding configuration items to configure.

### 接收频率 **Receiving frequency**

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to receiving frequency, then press【MENU】to select.
6. The screen shows the receiving frequency of the current channel, then press【MENU】to select.
7. Press the keyboard to type the corresponding number, press【▲】to delete the last number, press【BACK】to return to the previous menu.
8. After the changes, press【MENU】, the screen shows that the receiving frequency has been saved.

注意——LOGO According to frequency range of software limit frequency changes when editing and changing frequency, if less than the frequency range of software, then the final change results will be the minimum value settings on the software, the opposite is maximum.

### 发射频率 **Transmitting frequency**

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to transmitting frequency, then press【MENU】to select.
6. The screen shows the transmitting frequency of the current channel, then press【MENU】to select.
7. Press the keyboard to type the corresponding number, press【▲】to delete the last number, press【BACK】to return to the previous menu.
8. After the changes, press【MENU】, the screen shows that the transmitting frequency has been saved.

注意——LOGO: According to frequency range of software limit frequency changes when editing and changing frequency, if less than the frequency range of software, then the final change results will be the minimum value settings on the software, the opposite is maximum.

### 信道名称 **Channel name**

The menu functions as follows:

1. Press【MENU】to enter menu mode.
2. Press【▲】/【▼】to set, then press【MENU】to select.
3. Press【▲】/【▼】to the radio configuration, then press【MENU】to select.
4. Use the keyboard to type the correct radio configuration password (software Settings), then press【MENU】to select.
5. Press【▲】/【▼】to channel name, then press【MENU】to select.
6. The screen shows the current channel name, then press【#】to switch input method to type the related letters, numbers, or Chinese characters, and input methods are same as SMS editing.
7. After the changes, press【MENU】, the screen shows that the channel name has been saved.

**信道添加** Add Channel

Method of cooperating MENU:

Entering the menu via [MENU] button.

Press【▲】/【▼】to find SETTING, press [MENU] to confirm.

Press【▲】/【▼】to find CONFIGURATION, press [MENU] to confirm.

Input the correct configuration password (setting by programming), press [MENU] to confirm.

Press【▲】/【▼】to find Add Channel, press [MENU] to confirm.

Press【▲】/【▼】to select the channel, then press [MENU] to enter the relevant channel and add the parameters.

色彩码数字.jpg Color code 数字.jpg

Color code refers to a system. The same color code is necessary for the terminals communicating with each other. The frequency is the integer within 0~15. The color code only can be set in the digital model. Color code can mark a system, and the terminals that communicate with each other must set the same color code. Method of cooperating MENU:

Entering the menu via [MENU] button.

Press【▲】/【▼】to find SETTING, press [MENU] to confirm.

Press【▲】/【▼】to find CONFIGURATION, press [MENU] to confirm.

Input the correct configuration password (setting by programming), press [MENU] to confirm.

Press【▲】/【▼】to find Color code, press [MENU] to confirm.

Press【▲】/【▼】to select the color code, then press [MENU] to confirm. The color code selected will be in the display.

### 中继台时隙数字.jpg Relay Station Time Slot 数字.jpg

The relay time slot refers to the slot for voice communication or data transmission, which only can be modified within the digital channels. Method of cooperating MENU:

Entering the menu via [MENU] button.

Press【▲】/【▼】to find SETTING, press [MENU] to confirm.

Press【▲】/【▼】to find CONFIGURATION, press [MENU] to confirm.

Input the correct configuration password (setting by programming), press [MENU] to confirm.

Press【▲】/【▼】to find Relay Station Time Slot, press [MENU] to confirm.

Press【▲】/【▼】to select the relay station time slot , then press [MENU] to confirm. The time slot selected will be in the display.

注意——LOGOThe digital channel of host computer can be configured to dual capacity direct mode. This mode supports parallel direct mode transmission of two two-way radios transmitting on 12.5KHz channel bandwidth. The radios in the same communication group must use the same time slot, and the group using slot 1 will not interfere with the group using slot 2.

## 附录 Appendix

**在线更新 Online Update**

1. Turn off the radio, and insert the writing frequency line;

2. Press and hold the [Side button 1] and [Side button2] at the same time to turn on the radio, the green LED turns on, and thescreen is black, indicating that the radio has entered the upgrade mode;

3. Start the upgrade software “Update.exe” on the computer; select the corresponding serial port;

4. Click “Browse” to select the file to be upgraded (provided by the manufacturer), for example: Dm-1801-V1.1.1.sgl;

5. Click “Download “and wait the download to complete. Remember that the power mustn’t be cut off in the update process, or else the SCM will be scrapped;

6. Unplug the writing frequency line, turn off the radio or reboot.

注意——LOGOCaution: Do not cut off the power in the update process, or else the SCM will be scrapped.

**老化测试 Aging Test**

In power off mode, press and hold the [Side button 1] and the number button[2] to turn on the radio and enter the aging test, the radio displays “ RF Test ...”, the transmitter LED turns on and transmits 30 seconds, then the receiver LED turns on and receives for 30 seconds; the transmitter and receiver alternate until the power is used up. The radio can be turned off in the aging process, and the aging channel is the channel entered after turning on (either analog channel or digital channel).

**初始化复位默认值 Initialize Defaults**

In power off mode, press and hold the [Side button 1] and the number button [1] to turn on the radio, and the LCD displays “Memory Reset?”; press the MENU button to enter initialization, and the LCD displays “Memory Reset…”; the initialization finishes after 10 seconds and the radio turns on normally. Press other buttons to exit the initialization interface and boot normally.

注意——LOGOThe power mustn’t be cut off in the initialization process, or else the initialization will fail.

**主要技术指标 Main technological specification**

|  |  |
| --- | --- |
| Frequency range | VHF：136-174MHz /UHF:400-480MHz (Dual Band) |
| Memory Channel | 1024 |
| Frequency Stability | **±**1.0ppm |
| Operating Temperature | -30℃—+60℃ |
| Operating Voltage | DC7.4V |
| Demission（H×W×D） | 133\*62\*36mm ( no including the antenna) |
| Weight |  |

**发射部分 Transmission**

|  |  |
| --- | --- |
| Output power | High:5W/Low:2W |
| Output Consumption | Analog≤1.6A Digital≤0.9A |
| FM modulation(wide/narrow) | 16K¢F3E@25KHz/11K¢F3E@12.5KHz/141K¢F3E@20KHz |
| 4FSK digital modulation | 12.5KHz for data:7K60FXD 12.5KHz for data and voice :7K60FXE |
| Modulation Distortion | <5% |
| Signal-to-noise(wide/narrow) | ≥45dB@25KHz /≥40dB@12.5KHz |
| Adjacent Channel power | ≤-65dB/≤-60dB |
| Audio Response | +1～-3dB |
| Antenna Port Spurious | 9KHz-1GHz:  ≤-36dBm1GHz-12.75GHz:  ≤-30dBm |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| Vocoder type | AMBE+2 TM |

**接收 Reception**

|  |  |
| --- | --- |
| Analog receive sensitivity | -122dBm (12dB SINAD) |
| Digital receive sensitivity | -120dBm(BER≤5%) |
| Audio power | 1W |
| Audio distortion | <10% |
| Audio response | +1～-3dB |
| Signal imitation | ≥70dB |
| Intermediation (Wide/ narrow) | ≥62dB/≥58dB |
| Adjacent channel selectivity (Wide/ narrow) | ≥65dB/≥60dB |
| Receive Current | ≤380mA |
| PM noise | ≥45dB@25KHz /≥40dB @12.5KHz |

All specifications may be modified without prior notice or liability.

**■故障处理指南 Troubleshooting**

|  |  |  |
| --- | --- | --- |
| **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 does not work in the digital channel** | **Be different in the frequency/channel/color code/ time slot** | **Setting the same frequency/channel/color 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 walkie talkie 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.

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