

USER'S MANUAL

BRIEF INTRODUCTION

Thank you for your purchase of the handheld walkie-talkie. We believe that this simple, stable, beautiful and widely used in various industries of professional wireless communication equipment will bring you excellent quality and reasonable price surprise. If this product uses professional commercial or amateur frequencies, it is required to apply for license from Wireless Administration Organization of the local province, city and autonomous region. Please read this manual carefully in order to know how to properly operate the radio before use.

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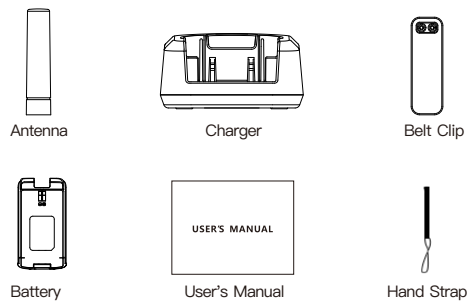
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Features and Specifications

- LED Flashlight/SOS
- Optional Call Tone
- LCD
- Roger Tone
- Battery Power Indicator
- Monitor
- Group Call
- Scan
- Keyboard Lock
- Key Tone (On/Off)
- Scrambler(8 groups)
- Busy Channel Lockout
- CTCSS/DCS
- 32 Analog Channels
- 121 CTCSS/DCS (38 CTCSS and 83 DCS)
- IVOX/VOX

Note: Signal range varies according to environment or terrain conditions

Accessories



Unpacking And Checking Equipment

Please take the radio out of the packing box carefully. We recommend that you check whether the package contains accessories before discarding them. If any items are lost or damaged during delivery, please contact the dealer immediately.

Getting Familiar



Install the Battery

1. Make sure the two-way radio is turned off.
2. The back of the radio is facing you.
3. Push the battery along the back of the radio until the release latch of it locks into place.

Indicator Light

Transmit: The light will be on red when transmitting.

Receive: The light will be on green and turn on the speaker when receiving.

Read: The light will be on red and flash quickly during frequency reading; after the reading, it will stop flashing.

Program: The light will be on green and flash quickly during frequency programming; after the programming, it will stop flashing.

Power Switch/Volume Controller

Turn on: Rotate the power switch clockwise until a “click” sound and it can also adjust the volume.

Turn off: Rotate the power switch anticlockwise until a “click” sound.

Turn up the volume: After turning on the radio, rotate the switch clockwise to adjust the volume.

Turn down the volume: After turning on the radio, rotate the switch anticlockwise to adjust the volume.

Note: Do not put the two-way radio close to your ears, it may damage your hearing. If the volume is not set properly.

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TOT

To prevent accidental transmission and prolong battery life, if you keep pressing the PTT button to reach the preset time, the radio will give a continuous warning tone and stop transmission.

Note: Please open the programming software to set the TOT (Off, 60–600s) and program it to the radio.

Select CTCSS/DCS

The CTCSS/DCS can minimize interference by blocking transmission from unknown sources. The two-way radio has 121 codes of CTCSS/DCS.

1. Short press the button of  until the code of CTCSS/DCS starts to flash.
2. Press the button of  or  to select the CTCSS/DCS code, if you long press these two buttons can quickly browse the CTCSS/DCS code.
3. Press the PTT button to confirm and exit the menu, or short press the button of  to continue setting.

Note: If you need to set the CTCSS/DCS, please open the programming software to set it.

Side Key

You can use the programming software to set the option of side key.






The set of short press: A. None B. Monitor C. Scan D. Keyboard Lock E. Call Key F. NOAA (Weather) G. Flashlight H. Menu Key I. Up Key J. Down Key K. Group Call

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The set of long press: A. None B. Monitor C. Scan D. Keyboard Lock E. Call Key F. NOAA (Weather) G. Flashlight H. Menu Key I. Up Key J. Quick Up Key K. Down Key L. Quick Down Key M. Group Call

Key Tone

You can enable or disable the key tone. If you enable the key tone, you will hear the key tone when press any button.

1. Short press the button of  until the icon of  is displayed on the LCD. The current setting (OF, ON) will flash.
2. Press the button of  or  to turn on/off the key tone.
3. Press the PTT button to confirm and exit the menu, or short press the button of  to continue setting.

PTT Button

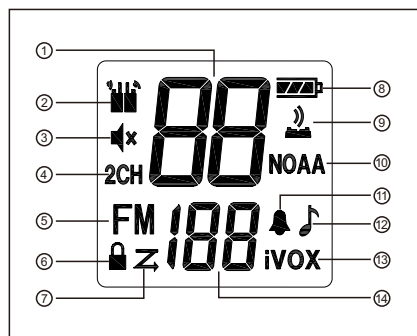
Press the PTT button and face to microphone talking, the light will be on red. If the channel does not set the TX frequency, it will sound “Du Du”, you can release the PTT button to receive information.

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121 CTCSS/DCS

38 CTCSS/QT [Hz]														
	NO.	Frequency	NO.	Frequency	NO.	Frequency	NO.	Frequency	NO.	Frequency	NO.	Frequency	NO.	Frequency
38 CTCSS/QT	01	67.0	08	88.5	15	110.9	22	141.3	29	179.9	36	233.6		
	02	71.9	09	91.5	16	114.8	23	146.2	30	186.2	37	241.8		
	03	74.4	10	94.8	17	118.8	24	151.4	31	192.8	38	250.3		
	04	77.0	11	97.4	18	123.0	25	156.7	32	203.5				
	05	79.7	12	100.0	19	127.3	26	162.2	33	210.7				
	06	82.5	13	103.5	20	131.8	27	167.9	34	218.1				
	07	85.4	14	107.2	21	136.5	28	173.8	35	225.7				
83 DCS/DQT														
	NO.	Decode	NO.	Decode	NO.	Decode	NO.	Decode	NO.	Decode	NO.	Decode	NO.	Decode
83 DCS/DQT	39	D023N	51	D073N	63	D156N	75	D261N	87	D365N	99	D503N	111	D654N
	40	D025N	52	D074N	64	D162N	76	D263N	88	D371N	100	D506N	112	D662N
	41	D026N	53	D114N	65	D165N	77	D265N	89	D411N	101	D516N	113	D664N
	42	D031N	54	D115N	66	D172N	78	D271N	90	D412N	102	D532N	114	D703N
	43	D032N	55	D116N	67	D174N	79	D306N	91	D413N	103	D546N	115	D712N
	44	D043N	56	D125N	68	D205N	80	D311N	92	D423N	104	D565N	116	D723N
	45	D047N	57	D131N	69	D223N	81	D315N	93	D431N	105	D606N	117	D731N
	46	D051N	58	D132N	70	D226N	82	D331N	94	D432N	106	D612N	118	D732N
	47	D054N	59	D134N	71	D243N	83	D343N	95	D445N	107	D624N	119	D734N
	48	D065N	60	D143N	72	D244N	84	D346N	96	D464N	108	D627N	120	D743N
	49	D071N	61	D152N	73	D245N	85	D351N	97	D465N	109	D631N	121	D754N
	50	D072N	62	D155N	74	D251N	86	D364N	98	D466N	110	D632N		

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- | | |
|----------------------------|---|
| ① Channel(1-32) | ⑨ Key Tone (On/Off) |
| ② Status(Transmit/Receive) | ⑩ NOAA (On/Off) |
| ③ Mute | ⑪ Roger Tone (On/Off) |
| ④ Dual Channel Monitoring | ⑫ Call Tone(Off, 1-10) |
| ⑤ FM (On/Off) | ⑬ IVOX(Off/L1/L2/L3)
VOX(Off/L1/L2/L3) |
| ⑥ Keyboard Lock (On/Off) | ⑭ CTCSS/DCS(0-121) |
| ⑦ Scan (On/Off) | |
| ⑧ Battery Power Indicator | |

- Note:** 1. In order to save the battery power, when the screen is on for 10s without any operation, it will turn off the screen-on state (select the backlight mode to “Automatic”).
2. Press any button to restore the screen-on state of the LCD (select the backlight mode to “Automatic”).
3. Enter to the option of “Menu”, it will automatically exit the menu after 10s of no operation.

Call Tone

The two-way radio can transmit different call tones to other radios in the same group. It has 10 kinds of call tones to choose from.

1. Short press the button of until the icon of is displayed on the LCD. The current setting (OF, ON) will flash.
2. Press the button of or to select the CTCSS/DCS code, if you long press these two buttons can quickly browse the CTCSS/DCS code.
3. Press the PTT button to confirm and exit the menu, or short press the button of to continue setting. In order to transmit your call tone to other radios, please set the same channel and CTCSS/DCS on the radio, and press the button of to transmit the call tone.

Note: If you are not satisfied with the 10 kinds of call tones, please open the programming software to set the “Call Tone” (Off, Call Tone 1—Call Tone 20) and program it to the radio.

FM

The two-way radio has a built-in FM.

1. Short press the button of until the icon of **FM** is displayed on the LCD. The current setting (OF, ON) will flash.
2. Press the button of or to turn on/off the FM.
3. Press the PTT button to confirm and exit the menu, or short press the button of to exit the menu.

Note: If you turn on the two-way radio, press the button of or to scan the listening frequency of the FM.

Call and Receive

All radios in the group must be set to the same channel and CTCSS/DCS for normal communication.

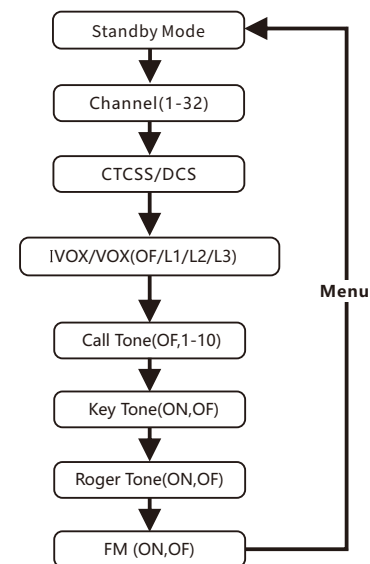
1. Hold the two-way radio 2-3cm away from your mouth.
2. Hold down the PTT button when talking, the icon of will display on the LCD.
3. Release the PTT button to answer the call, when the two-way radio receives a matching channel, the icon of will display on the LCD.

Turn down the volume: After turn on the radio, rotate the switch anticlockwise to adjust the volume.

Monitor





Long press the button of to enter monitor mode and monitor the weak signal of the current channel. You can also monitor the volume level of the radio when you are not listening. The volume can be adjusted as needed.

Menu







Keyboard Lock

To avoid accidental changes to the radio settings, please do the following.

1. Long press the button of  until the icon of  is displayed on the LCD.
2. You can turn on/off the two-way radio when it is in locked mode, but adjust the volume, receive, transmit, monitor and all other functions remain locked.
3. Long press the button of  until the icon of  is not displayed on the LCD, which means the radio is unlocked.

Select the Channel



Channel refers to the frequency that the two-way radio uses to transmit.


1. Press the button of  until the number of channel starts to flash.
2. Press the button of  or  to change the channel, if you long press these two buttons can quickly browse the channel.
3. Press the PTT button to confirm and exit the menu, or short press the button of  to continue settings.



Note: If you want to set the frequency of channel or increase/decrease the channel, please open the programming software to set the frequency of channel and program it to the radio.

2. Look for the person in your group who accidentally changed the channel.
3. Quickly find unused channels for your own use.

If you want to start the function of scan, please do the following:

1. Short press the button of , the icon of **Z** will display on the LCD, and the two-way radio begins to scroll through the combinations of channel and CTCSS/DCS.
2. When the radio detects an active channel that matches the CTCSS/DCS of the channel, it will stop scrolling and emit the incoming voice information.
3. Press the PTT button within 5s after the end of the transmission to respond to the transmission person and talk to them.
4. The radio will resume scrolling through channels 5s after the end of the received activity.
5. Short press the button of  to stop scanning.





Note: 1. If you press the PTT button while scrolling through the inactive channels, the radio will transmit on the “Main Channel”. You can press the button of  to stop scanning at any time.

2. If the radio stops scanning due to an accidental transmission, you can resume scanning immediately by pressing the button of  or .
3. If you detect the same frequency as the channel, but the CTCSS/DCS does not match, you will see the green light of the radio turns on, but cannot hear the incoming voice information.

I VOX/VOX

The transmission is initiated by speaking through the microphone of the radio’s audio accessory, not by pressing the PTT button.

L3=High sensitivity, suitable for quiet environment
L2=Medium sensitivity, suitable for most environments
L1=Low sensitivity, suitable for noisy environment

1. Short press the button of  until the icon of VOX is displayed on the LCD. It will display the icon of VOX when an audio accessory is connected, and the current setting (OF, L1–L3) will flash.
2. Press the button of  or  to select the level of sensitivity, if you long press these two buttons can quickly browse the level of sensitivity.
3. Press the PTT button to confirm and exit the menu, or short press the button of  to continue settings.

Note: There will be a short delay when using IVOX/VOX.

Scan

Operate the function of scan can do the following:

1. Search all channels to see if there are any transmissions from unknown parties.

LED Flashlight and SOS Light


The two-way radio has a built-in LED flashlight, please open the programming software to set the “Programmable Key” and program it to the radio.

1. Press the “Programmable Key” (It has been set to “SOS Light”) for the first time, the LED flashlight will remain on.
2. When the LED flashlight remains on, press the “Programmable Key” for the second time, the SOS light will slowly flash for help.
3. When the SOS slowly flashing, press the “Programmable Key” for the third time, the SOS light will change to quickly flash for help.
4. Finally, press the “Programmable Key” again to turn off the LED flashlight and SOS light.

Transmission Range

The two-way radio is designed to maximize performance and extend transmission range. Make sure the distance between the radios is at least 10cm when using.

Battery Power Indicator

The battery icon of  (0–3) on the radio shows the amount of power left in the battery. When the power of the battery is about to run out, it will flash to warn.

Maintenance of battery capacity

1. Charge the battery once a month when it is not in use.
2. Remove the battery from the radio during storage.
3. Store the battery in a low humidity environment with the temperature between -20°C and 35°C .
4. Avoid damp conditions and corrosive materials.

Group Call Channel

To set another group call channel, please do the following:





1. Open the programming software to set the “Group Call” and program it to the radio.
2. Press the “Programmable Key” (It has been set to group call), the group call icon of **2C** will display on the LCD, press the PTT button to talk with the people on the group call channel.
3. After ending the group call and exit the channel of group call, press the PTT button to respond to the transmitter and talk to him.
4. After the radio has no transmission or reception, and there is no operation for a period of time, it will automatically exit the interface of group call channel.

- Note:**
1. If you want to use the dual-channel monitoring, please open the programming software, and turn on the “Group Call RX” (On/Off) which in the “Group Call Information” page.
 2. If you want to permanently use the dual-channel monitoring, please open the programming software, and turn off the “Group Channel RX Off” (Off, 10s, 30s, 60s) which in the “Group Call Information” page.
 3. If you want to set the time to exit the interface of group call channel, please open the

programming software, and set the “Group Channel Off Time”(10s, 30s, 60s) which in the “Group Call Information” page.

NOAA






The two-way radio has the function of NOAA.

1. Long press the button of  until the icon of NOAA is displayed on the LCD.
2. Press the button of  or  to select the NOAA channel.
3. Press the PTT button to confirm and exit the menu, or long press the button of  to exit the menu.

Note: The NOAA needs to be supported by the country or region where it is located.

Roger Tone

You can set the radio to play a unique tone when the transfer is complete, which can remind others that the call is complete.

1. Short press the button of  until the icon of  is displayed on the LCD. The current setting (OF, ON) will flash.
2. Press the button of  or  to turn on/off the “roger tone”.
3. Press the PTT button to confirm and exit the menu, or short press the button of  to continue setting.

Troubleshooting

Symptom	Solution
No power	<ul style="list-style-type: none"> · Battery power may run out, please update the battery or recharge it. · Battery may not be properly installed, please take it off and re-install.
Battery lasts a short time after being charged.	<ul style="list-style-type: none"> · The battery life is over, please replace new battery.
Can not talk to other members of your group.	<ul style="list-style-type: none"> · Verify that you are using the same frequency and CTCSS/DCS as the rest of the group. · Verify transmitting is within the range of signal reception / function of the radio.
Hearing other conversation in the channel (not group members)	<ul style="list-style-type: none"> · Please change the settings of CTCSS/DCS, including all radios settings of your group.

WARRANTY CARD

Model: _____
 Serial No: _____
 Purchase Date: _____
 Seller: _____ Tel: _____
 User: _____ Tel: _____
 Address: _____ Postcode: _____

Warranty Description:

1. The warranty card is kept by the customer as a warranty certificate, and it will not be replaced if lost.
2. The warranty card must be stamped and dated by the point of sale to be valid.
3. The card cannot be altered, please confirm that the serial number of the warranty card matches the number of the purchased machine, otherwise it will be invalid.
4. The warranty period is one year. The chargers, batteries, earphones, antennas and feeders are consumables and not covered by the warranty.
5. Users can choose the following ways to obtain maintenance services:
 - At the original place of purchase.
 - Mail or visit our company.
 - The special maintenance point of our company in the local.

