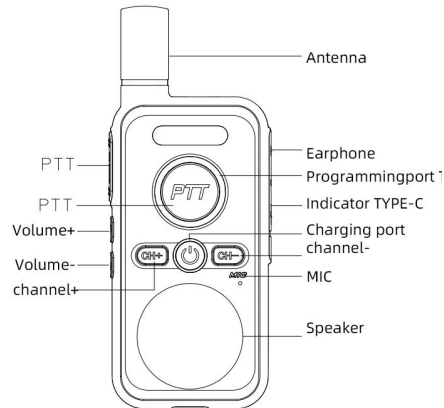


user 's manual



One、Function Introduction :

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Key introduction: PTT is the transmit button, CH+lightly press the channel up button (long press for 3 seconds to lock the channel, and sound "beep" at the same time. After locking, pressing CH+and CH - is ineffective, and long press for 3 seconds to sound "beep" at the same time to unlock) CH - channel down button. Long press the power switch for 2 seconds to turn on the device and broadcast the start and current channel. Press again to turn off the device and prompt "off". Volume+(Side key 1) Press lightly to increase volume. Volume - (Side key 2) Press lightly to decrease the volume.

Attention: To prevent accidental channel operation, the machine will automatically lock after 17 seconds of inactivity. At this time, the CH+and CH - buttons are invalid. If you need to change channels, please manually unlock.

two、Functional operation

Copy function

Press and hold the side button 2+to turn on the walkie talkie in channel 2. The green light flashes and enters copy mode. The copy machine is placed aside, and the copied machine is the same. Press and hold the side button 2+to turn on the walkie talkie in channel 2. Press and hold the PTT button again for one second, then release it. The transmission red light will light up, and wait for the transmission red light to turn off before sending data is completed. The two walkie talkies have been shut down, restarted, and copied. The channel frequency and function of the copied machine and the copied machine are exactly the same. Multiple walkie talkies can be replicated simultaneously.

Decoding function

The transmitter frequency and sub tone code can be cracked. Press and hold the side key 2+on the walkie talkie in channel 1, and the green light will flash to enter decoding mode. The

transmitter will emit and the walkie talkie will receive a beep sound to successfully crack the signal. It can be switched to the next channel to crack a new signal. After cracking, shut down and restart to save the cracked channel frequency.

Definition of side keys

Side key 1 and side key 2 have two functions: long press and short press.

Short press side button 1: Volume increases, default to fixed mode.

Short press side button 2: The volume decreases and defaults to fixed mode.

Long press: can be defined as the following functions using frequency writing software. A. Close B. Channel broadcasting C. Scanning D. Emergency alarm E. Monitoring.

Monitoring: Check if there is anyone on the channel you have selected speaking, and if there is no signal, a "rustling" sound will sound.

Off: Long pressing the side keys has no function.

Channel Broadcasting: Long press the side button to voice the current channel number of the device.

Scanning: Press and hold the side button to activate the scanning mode, which automatically detects the activity of channels 1 to 16 defined as scannable (the frequency writing software can define whether each channel can be scanned or not). When there is a signal on the scanned channel, the walkie talkie will automatically stop on that channel for communication. To stop scanning: Press and hold the side button again to make a "close" sound and exit scanning mode.

Emergency alarm: When the current channel has a transmission frequency, long press the side button to activate the remote alarm, and the local device will sound an alarm simultaneously. To exit the remote alarm, press PTT to exit the alarm mode.

Silence level

The noise level is an analog reference level used to set an internal noise threshold in the intercom CPU. You can preset the noise level. When in user mode, the noise level can be adjusted. Range: 0 (quiet on) -9 (deep) (in steps of 1).

Energy-Saving Function

Power saving: After being turned on for 10 seconds without any operation, it automatically enters a power-saving state.

Turning off the walkie talkie does not save power.

Scanning switch

On the 16 channel walkie talkie, the walkie talkie will automatically detect the activity of channels defined as scannable from 1 to 15 (the frequency writing software can define whether each channel is scannable or not). When there is a signal on the scanned channel, the walkie talkie will automatically stop on that channel for communication.

- a. The walkie talkie will stop on the channel with signal, and after the signal disappears, it will continue to scan the next channel for another 15 seconds.
- b. When the number of scannable channels is less than 2, the incoming machine cannot scan.

Voice controlled emission

The walkie talkie is set to have voice control function enabled by the frequency writing software. It can be connected to the walkie talkie through headphones,

and the voice control gain level and speaking volume can be set to transmit signals.

- Voice control function, only when voice control function is enabled can voice control be effective.
- Voice control gain level: When the sound level is higher than the set voice control gain level, VOX automatically launches. The gain level can be adjusted to levels 1-9.

(Note: The gain level of voice control must be set through frequency writing software)

Battery voltage detection

Low battery alarm: When the voltage is below a certain level, the voice prompt "Please Charge" will be sent out every 20 seconds, and the transmission will be invalid.

Timeout timer

In the frequency writing software, the transmission time can be set to a timing limit of 15s~600s.

Chinese/English conversion

The frequency writing software can be set in three states: Chinese, English, and Chinese. Can also be manually adjusted: Press and hold the side button 2+on the 15 channel to switch between Chinese and English voice.

QT, Quiet Talk/DQT, Digital Quiet Talk

You can use frequency writing software to set sub audio QT/digital sub audio DQT signaling on the channel of the walkie talkie. When the channel is set with sub audio or digital sub audio signaling, the mute can only be turned on when a signal using the same sub audio or digital sub audio is received. If the same channel uses different QT/DQT for calling, the mute cannot be turned on and only the green light will be on. The list of sub audio QT/digital sub audio DQT is as follows:

QT, Quiet Talk: (39 in total)

67.0	69.3	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3
131.8	136.5	141.3	146.2	151.4	156.7	162.2	167.9	173.8	179.9
186.2	192.8	203.5	210.7	218.1	225.7	233.6	241.8	250.3	

DQT, Digital Quiet Talk: (166 in total)

D023N	D025N	D026N	D031N	D032N	D043N	D047N	D051N	D054N	D065N
D071N	D072N	D073N	D074N	D114N	D115N	D116N	D125N	D131N	D132N
D134N	D143N	D152N	D155N	D156N	D162N	D165N	D172N	D174N	D205N
D223N	D226N	D243N	D244N	D245N	D251N	D261N	D263N	D265N	D271N
D306N	D311N	D315N	D331N	D343N	D346N	D351N	D364N	D365N	D371N
D411N	D412N	D413N	D423N	D431N	D432N	D445N	D464N	D465N	D466N

D503N	D506N	D516N	D532N	D546N	D565N	D606N	D612N	D624N	D627N
D631N	D632N	D654N	D662N	D664N	D703N	D712N	D723N	D731N	D732N
D734N	D743N	D754N							

D023I	D025I	D026I	D031I	D032I	D043I	D047I	D051I	D054I	D065I
D071I	D072I	D073I	D074I	D114I	D115I	D116I	D125I	D131I	D132I
D134I	D143I	D152I	D155I	D156I	D162I	D165I	D172I	D174I	D205I
D223I	D226I	D243I	D244I	D245I	D251I	D261I	D263I	D265I	D271I
D306I	D311I	D315I	D331I	D343I	D346I	D351I	D364I	D365I	D371I
D411I	D412I	D413I	D423I	D431I	D432I	D445I	D464I	D465I	D466I
D503I	D506I	D516I	D532I	D546I	D565I	D606I	D612I	D624I	D627I
D631I	D632I	D654I	D662I	D664I	D703I	D712I	D723I	D731I	D732I
D734I	D743I	D754I							

Scrambling

In the frequency writing software menu of the walkie talkie, "Yes" is set to turn on the frequency scrambling function. If "No" is set, it is turned off. If one party turns on the frequency scrambling but the other party does not turn it on, a robot like sound will be emitted during the intercom. If both are turned on, it is a normal sound to prevent third-party monitoring.

Wide and narrow band selection (25.0KHz/12.5KHz)

This function is set to broadband by default at the factory. You can select whether the channel operates in broadband (25.0KHz) or narrowband (12.5KHz) by setting the "Wide/Narrow" option in the "Channel Information" section of the frequency writing software.

TYPEC charging function

Open the headphone cover and insert the TYPEC charging cable to charge the device. When charging, the blue light will turn on, and when fully charged, the green light will turn on. Attention: Please turn off the walkie talkie when charging. If the green light is on when the charging cable is first inserted, please check if there is good contact between the battery and the machine power socket.

Three、 Technical parameters

General specifications: :

Frequency range

UHF400-480MHz

Storage channel	16 groups
Working voltage	DC3.7V
Frequency stability	$\pm 2.5\text{ppm}$
Working temperature	$-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$
Working mode	Same frequency simplex
Antenna impedance	50 Ω

Launch

Output power::	$\leq 5\text{W}$
Emission current	$\leq 1300\text{ mA}$
Maximum frequency offset (broadband)	$\leq 5\text{KHz}$
Stray power	$\leq 7.5\mu\text{W}$
Adjacent channel power	$\leq -65\text{dB}$
Signal to noise ratio (broadband)	$\geq -45\text{dB}$
Sub audio/digital sub audio bias (broadband)	$0.7\pm 0.1\text{KHz}$
Modulation sensitivity	8~12mV

Receive

Sensitivity	-122dBm (12dB SINAD)
Audio power	$\geq 350\text{mW}$
Audio distortion	$< 10\%$
Intermodulation (broadband)	$\geq 55\text{dB}$
Neighborhood selectivity (broadband)	$\geq 55\text{dB}$
Clutter suppression	$\geq 55\text{dB}$
Receiving current	$\leq 450\text{mA}$