

operation instructions

USER'S MANUAL



Professional wireless intercom

PROFESSIONALFMTRANSCEIVER

1、 Function Introduction:

1. Working frequency band UHF 400-480MHz (receive/transmit)
2. 16 storage channels
3. Chinese/English language reporting number
4. 50 sets of CTCSS, 105 sets of standard DCS, 5 sets of transmission timeout limit
6. Power saving function
7. VOX voice control function
8. Voltage warning
9. Scanning function
10. Wide/Narrow Band
11. Interference function
12. Decoding function → (optional)
13. Computer programming
14. Wireless replication → (optional)
15. Side key definition → (optional)
16. Dual PPT → (optional)
17. Power indicator → (optional)



Figure 1

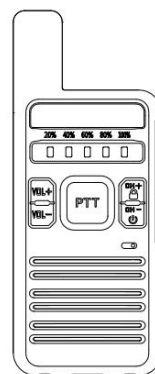


Figure 2

Button introduction: PTT is the transmission button CH+lightly press the channel up button Press and hold for 3 seconds to lock the channel, and at the same time, sound a beep The sound. After locking, pressing CH+and CH - will not work. Press and hold for 3 seconds, and a beep will sound to unlock. Press and hold the CH - channel down button for 2 seconds to turn on the power switch and report the power on and current channel. Press again to turn off and prompt "off".

Volume+(side key 1) Press lightly to increase the volume. Volume - (Side key 2) Press lightly to decrease the volume.

Attention: To prevent accidental operation of the channel, 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 the channel, please manually unlock "Figure 1".

Figure 2: VOL+lightly press to increase volume, long press to activate emergency alarm function. VOL - Lightly press to decrease volume, long press the battery indicator function. Press and hold VOL+on channel 1, turn on the device, and the green light will flash to enter decoding mode.

Press and hold VOL+on channel 2, turn on the device, and the green light will flash to enter copy mode. Press and hold VOL+and turn on the copied machine on channel 2. After the green light flashes, press PTT and the red light will turn on. Release and enter the copying process. Wait for the green light to turn on to complete the copying.

2、 Functional operation

Replication

Press and hold the side key 2+on channel 2 to turn on the walkie talkie, and the green light will flash to enter the replication mode. Place the replication machine aside, and press and hold the side key 2+on channel 2 to turn on the walkie talkie. Then press the PTT key for one second and release it. The red transmission light will turn on, and wait for the red transmission light to turn off to complete the data transmission. The two walkie talkies have been shut down and restarted to complete the replication, and the frequency and function of the copied machine and the replicated machine are exactly the same. Multiple walkie talkies can be replicated simultaneously.

Decoding function

It can crack the transmitter frequency and sub tone code. When the walkie talkie is turned on by pressing the side key 2+on channel 1 and the green light flashes to enter decoding mode, the transmitter will transmit. If the walkie talkie receives a signal with a beep sound, the crack is successful. You can switch to the next channel to crack the new signal. After cracking, turn off and restart to save the cracked channel frequency.

5. Definition of Side Keys

Side keys 1 and 2 have two functions: long press and short press. Short press side key 1: Volume increases, default to fixed mode. Short press side key 2: Volume decreases, default to fixed mode.

Long press: can be defined as the following functions using frequency writing software. A. Close B Channel broadcasting C scan

Monitoring: Is there anyone on the channel you have selected talking? If there is no signal, a "rustling" sound will be heard.

Close: Long pressing the side button has no function.

Channel broadcast: 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 with a "on" sound, automatically detecting the activity of channels 1 to 16 defined as scanable channels (the frequency writing software can define whether each channel can be scanned or not). When the scanned channel has a signal, the walkie talkie will automatically stop on that channel for easy communication.

To stop scanning: Press and hold the side key again and make a "close" sound to exit scanning mode.

Emergency alarm: When there is a transmission frequency on the current channel, long press the side button to activate the remote alarm, and the machine will sound an alarm sound at the same time. To exit remote alarm, press PTT to exit alarm mode.

Quiet noise level

The squelch level is an analog reference level used to set the internal squelch threshold in the walkie talkie CPU. You can preset the mute level. When in user mode, the mute level can be adjusted. Range: 0 (quiet on) -9 (deep) (step size 1).

Power saving function

Power saving: Turn on for 10 seconds without any operation, automatically enter power-saving mode

Off: The walkie talkie does not save power.

Scan switch

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

- a. The walkie talkie will stop on the channel with signal, and after 15 seconds of signal disappearance, it will continue to scan the next channel.
- b. When there are less than 2 scannable channels, the incoming machine cannot be scanned.

Voice controlled emission

The walkie talkie is set to have voice control 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.

- a. The voice control function can only be effective when it is turned on.
- b. Voice controlled gain level: When the sound level is higher than the set voice controlled gain level, VOX automatically enters

Launch the line. The gain level can be adjusted to levels 1 to 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, a voice prompt of "please charge" will be emitted approximately every 20 seconds Efficiency.

Timeout timer

In the frequency writing software, it is possible to set a timing limit of 15s~600s for transmission time.

Chinese/English Conversion

The frequency writing software can be set to three states: Chinese, English, and of f. Can also be manually adjusted: in 15 letters

Press and hold the side key 2+to turn on the device and switch between Chinese and English voice commands.

Sub audio QT/Digital Sub audio DQT

You can use frequency writing software to set sub audio QT/digital sub audio DQT signals on the channel of the walkie talkie

Order. When the channel is set to 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 different QT/DQT are used for calling on the same channel, 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:

Sub audio QT: (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	

Digital Sub Audio DQT: (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							

Interference function

Normal sound, prevent third-party monitoring. Wide and Narrow Band Selection (25.0KHz/12.5KHz)

This feature is set to broadband by default at the factory. You can select whether the channel operates in broadband (25.0KHz) or narrowband (12.5KHz) through 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, turn on the blue light, and when fully charged, turn on the green light. Attention: Please turn off the walkie talkie while charging. If the green light comes on when the charging cable is just inserted, please check if the battery is in good contact with the machine power socket.

3、 Technical parameters

General specifications:

Frequency range: UHF400-480MHz

Storage channels: 16 groups

Working voltage: DC3.7V

Frequency stability: $\pm 2.5\text{ppm}$

Working temperature: -20~+50

Working mode: Same frequency simplex

Antenna impedance: 50Ω

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(12dBSINAD)
audio power	≥350mW
Audio Distortion	<10%
Intermodulation (broadband)	≥55dB
Adjacent channel selective (broadband)	≥55dB
clutter suppression	≥55dB
Receiving Current	≤450mA

保修卡

备注

1.此保修卡只适用于上述所列型号和序号的对讲机维修服务。

2.本保修卡为最终用户享受保修服务的重要凭证，请妥善保管。

3.本保修卡须由销售商完整填写并加盖销售印章后才能生效。

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性别:男/女

客户地址和邮编

联系电话

产品型号

产品序号

购机日期

发票号码

销售商店名称

销售商店盖章

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商店联系电话

商店经手人

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