

一、 Functional Introduction:

- 1、 Operating frequency band :GMRS (receive/transmit)
- 2、 22 channels
- 3、 Scan function
- 4、 Chinese/English language annunciation
- 5、 CTCSS, DCS standard mute
- 6、 TOT
- 7、 Power saving function
- 8、 VOX control function
- 9、 Low voltage warning
- 10、 Flashlight Function

二、 Function operation

Channel Lock:

Press side button 1 and side button 2 at the same time when the power is on, you will hear a beep and the channel will be locked. When you press side button 1 and 2, only the current channel is announced, you cannot select the channel. Unlock: Press side button 1 and side button 2 at the same time, you will hear "beep" twice, the channel is unlocked and you can select the channel.

Functional definition of keys 1 and 2

Side button 1: (short press, long press) two modes: short press for channel selection, long press for: listening function, default is fixed mode.

Listening: listen to whether someone is talking on the channel you have selected, if there is no signal then a "rustling" sound will be heard.

Side button 2: (short press, long press) two modes: short press for channel selection, long press for torch switch function.

Torch: long press side button 2 to turn on the torch, then long press again to turn off the torch.

Power/volume switch controller

Turn on the intercom when you press clockwise, to turn off the intercom power, press counterclockwise until it clicks and adjust the call volume when you turn it.

Channel selection:

Key operation description: short/fast press [side key 1/side key 2] key for increasing/decreasing the channel once, voice broadcast out the current corresponding channel when the voice is on. The operation keys are cyclic to increase/decrease the

channel number, when operating side key 1: i.e. 1 - 16, when operating side key 2: i.e. 16 - 1.

PTT Pushbutton

Press PTT and speak into the microphone to call the other party, indicated by a red light. When released for reception, if there is a signal, a green light indicates that the speaker is on.

Squelch level

By adjusting the squelch level, you can set the intercom to turn off and on when it receives a strong signal. The lower the squelch level set, the greater the noise level when it is turned on, and the longer the distance you can talk, but the weaker the reception resistance. This function is set to 5 levels by factory default, you can set it through the "squelch level" option in the menu of the frequency writing software, the selectable range is 0~9, where the squelch level is set to 0, the squelch level is always on, the higher the level the less likely the squelch is to turn on.

Power saving function

Power saving:

On: 10 seconds without any operation, automatically enters the power saving state.

Off: The intercom does not save power.

VOX

VOX Voice Control allows you to transmit without pressing the PTT transmit button, using only the sound of your speech, and automatically stops transmitting when you stop speaking. The option to turn this function on/off can be made with the frequency writing software, when on.

a. When your intercom is enabled with VOX voice control.

When you speak into the MIC, it automatically turns on transmitting and sends out a voice.

When you stop speaking, the intercom automatically stops transmitting and waits to receive.

b. When you are using a headset with a microphone. To use the voice control function, you must adjust the VOX gain and set the VOX gain so that the intercom recognises the sound level.

If the microphone is too sensitive, the surrounding noise will cause the intercom to start transmitting.

If the microphone is not sensitive enough, the intercom will not pick up your voice. Be sure to adjust the VOX gain level so that the call goes smoothly.

Note: If the speaker/microphone is connected to the intercom with sound control on and the VOX gain set to a higher, more sensitive level, the amplified received signal from the speaker/microphone may cause the intercom to start transmitting.

Battery voltage check

Low battery alarm: When the voltage falls below a certain level, the voice prompts "Please charge" approximately every 15S.

TOT

Timing limits from 15s to 300s can be set in the writing software

Chinese/English conversion

Three state settings are available within the frequency writing software: Chinese, English and Off. Switching can also be done manually: channel selection at channel 15, switch off. Press and hold side Jian 1 and switch on at the same time, i.e. Chinese and English voice switching.

Sub-audio QT / Digital Sub-audio DQT

Sub-audio QT/Digital Sub-audio DQT signalling can be set on the intercom's channels using the frequency writing software. When subaudio or digital subaudio signalling is set on a channel, squelch can only be switched on when a signal is received using the same subaudio or digital subaudio. If the same channel is calling using a different QT/DQT, squelch cannot be switched on and only lights green. The list of subaudio QTs/digital subaudio DQTs is as follows:

Sub-audio QT: (Total 39)

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: (Total 166)

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							

Busy Lock

If the busy lock is set to on, pressing PTT after receiving a signal disables the transmission and a beep sounds until PTT is released. The setting can be selected by the frequency writing software.

Scan switch

In standby mode, choose to switch off on channel 16, press side button 2 to switch on at the same time, hear the "scan on" tone and release the button, the intercom will automatically detect the activity of channels 1 to 16 defined as scannable channels (the frequency writing software can define each channel as scannable or non-scannable). automatically stop on that channel in order to talk.

- The intercom will stop on the channel with a signal and continue scanning for the next channel after 5s when the signal disappears.
- When there are less than 2 scannable channels, the intercom will not scan.

Note: To exit the scan, turn off the intercom and turn it back on.

Type-C Charging function

Open the headset cover and plug in the Type-C charging cable to charge the unit. Blue light when charging, green light when fully charged.

Note: Please turn off the intercom while charging. If the green light is on when you first plug in the charging cable, please check if the battery is in good contact with the machine's power socket.

三、Technical

General specifications.:

Frequency range	GMRS
Channels	22 ch
Operating voltage	DC3.7V

WARNING:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then on. The user is encouraged to try to correct the interference by one or more of the following measures:

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules.

Attention:

This radio complies with IEEE and ICNIRP exposure limits for General Population/Uncontrolled Environments RF exposure environment at operating duty factors of up to 50% and is authorized by the FCC for General Population use only. An appropriate warning label is affixed to all units. In order to comply with RF exposure requirements, a minimum distance of 2.5 cm must be maintained when held-to-face, and body-worn operations are restricted to the approved original accessories (belt clip), a minimum distance of 0 cm. Do not use this device when antenna shows obvious damages.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.