一、 Functionality Profile:

1、Operating frequency band UHF 400- 480MHZ (receive/transmit)

2. 16 storage channels

3. Chinese/English language reporting

4. 50 groups CTCSS, 105 groups standard DCS

5. Launch timeout limit

6、Power saving function

7、VOX voice control function

8、Voltage warning

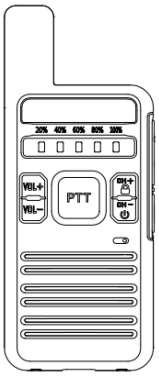
9. Scanning function

10、Scrambling function

11. Computer programming

12. Power indication

13、Alarm function



squelch level

The squelch level is an analog reference level used to set the internal squelch threshold in the intercom CPU. You can preset the squelch level. When in user mode, you can adjust the squelch level. Range: 0 (Squelch On) - 9 (Deep) (in steps of 1).

power saving feature

Power saving:

Turn on for 10 seconds without any operation, automatically enter the power saving state.

Tune OFF The intercom does not save power.

Scanning Switch

Talking on 16 channels, the intercom will automatically detect the activity of the channels defined as sweepable channels in channels 1 to 15 (the frequency writing software can define whether each channel is sweepable or non-swept), and when there is a signal on the channel being scanned, the intercom will automatically stop on that channel in order to talk.

a. The walkie-talkie will stop on the channel with the signal, and when the signal disappears after another 15s, it will continue to scan the next channel.

b. When there are fewer than 2 scannable channels, the pair of feeders cannot be scanned.

acoustic emission

The walkie-talkie is set by the frequency writing software to have the voice control function turned on, and can be connected to the walkie-talkie through a headset to set the voice control gain level and speaking volume to transmit signals.

a. Voice control is only effective if the voice control function is turned on.

b. Sound Gain Level: The VOX automatically transmits when the sound level is higher than the set sound gain level. The gain level is adjustable from 1 to 9 levels.

(Note: the voice-activated gain level must be set by the frequency writing software)

Battery Voltage Detection

Low battery alarm: When the voltage is lower than a certain level, about every 20S voice prompts "please charge" launch invalid.

timeout timer

In the frequency writing software can be set up to transmit time 15s~600s timing limit.

Chinese/English conversion

In the frequency writing software can be set in Chinese, English, off three kinds of state.

Subaudio QT/Digital Subaudio DQT

Subaudio QT/Digital Subaudio DQT signaling can be set on the intercom's channel using the frequency writing software. When subaudio or digital subaudio signaling is set on a channel, squelch can only be turned on when a signal is received using the same subaudio or digital subaudio. If the same channel is called using a different QT/DQT, squelch cannot be turned on and only lights green. The subaudio QT/Digital Subaudio DQTs are listed below:

Subaudible QT: (39 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 Subaudio DQT: (166 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							

scrambler function

In the walkie-talkie Frequency Writer Software menu in the scrambler set "Yes" scrambler function is open, set "No" is closed, if one party opens the scrambler, the other party does not open, the walkie-talkie will emit a sound similar to the robot, if you open at the same time is a normal sound, to prevent third-party monitoring. Prevent third party listening.

TYPE-C charging function

Open the headphone cover and insert the TYPEC charging cable to charge the unit. Red light when charging, green light when fully charged.

Note: Please turn off the walkie-talkie when charging. If the green light is on when the charging cable is just inserted, please measure whether the battery is in good contact with the machine's power base.

III. Technical parameters

General Specifications:

Frequency range UHF400-480MHz
Storage channels 16 groups
Operating Voltage DC3.7V
Frequency Stability ±2.5ppm
Working temperature -20℃~+50℃
Operating mode Simultaneous simplex
Antenna Impedance 50Ω

emit (a particle)

Output power: ≤2W
Emission current ≤1300mA
Maximum frequency deviation (broadband) ≤5KHz
Sub-audio//digital sub-audio Audio Bias(Broadband)0.7±0.1KHz
Modulation Sensitivity 8~12mV

reception (of transmitted signal)

Sensitivity -122dBm (12dB SINAD)
Audio power ≥350mW
Audio distortion < 10%
Receiving current ≤450mA

FCC STATEMENTS WARNING AND COMPLIANCE STATEMENT:

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, and(2) this device must accept any interference including received interference that may cause undesired operation.

The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and 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.

RF Exposure Statement

Our radio generators RF electromagnetic energy during transmit mode. This radio is designed for and classified as ”Occupational Use Only” meaning it must be used only during the course of employment by individuals aware of the hazards and the ways to Minimize Such hazards.

This radio is NOT intended for use by the ”General Population” in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for ”Occupational Use Only”.

Inaddition, our radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

---IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

---American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields 3 kHz to 300 GHz.

---American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave.

The information listed above provides the user with the information needed to make him or her aware of RF exposure and what to do to as-sure that this radio operates with the FCC RF exposure

limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, The radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

This device complies with RF radiation exposure limits set forth for an uncontrolled environment. Do not use this device when the antenna shows obvious damages.
Hold this transmitter approximately 25 mm away from your face and speak normal with the antenna pointed up and away. Use the supplied belt clip for body-worn configuration as other accessories may not comply to the limits.