User Manual

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Buttons and functions

Antenna

LCD display

Power on/off and scan switch

Earpiece and programme jack

PTT

Type-C charging port

UP/Weather

Down/calling tone button

Mic

Lock and menu button
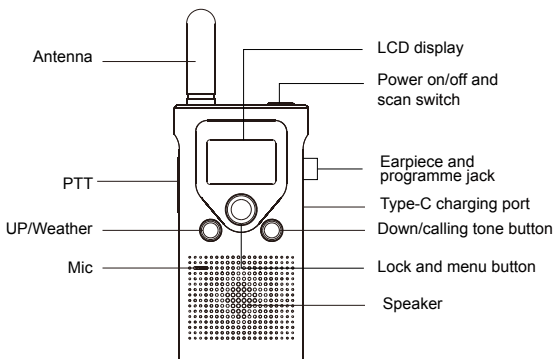
Speaker

LCD display
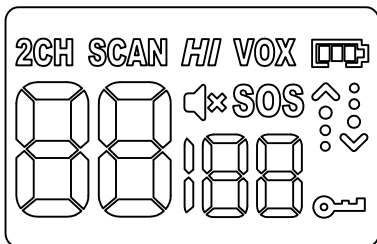
VOX —— Vox		**SCAN** —— Scan
HI —— High power		**⊙━** —— Lock
◁✕ —— Volume mute		⌇ —— Status(tx/rx)
▭▭▭ —— Battery power		

Battery installation
1) Battery: Li-ion battery.
2) Press the battery upwards to remove the battery.
3) Put the battery into the battery slot, pay attention to install the battery strictly according to the positive + negative-instructions in the slot, and press down firmly.
4) Reinstall the battery.

Battery display and low battery warning
The battery icon shows the battery level, from full display to space (0 battery). The 0 battery reminds the user to charge in time, and is accompanied by a low battery reminder (once 30 seconds). When the battery power is low, the intercom will be shut down.
Note: When storing the radio for a long time, please remove the battery first. Long-term corrosion of the battery will cause damage to the radio.

Use the charger to charge

1) Make sure the radio is closed.
2) Insert the Type-c charging plug into the jack of the radio with the rechargeable battery, and plug the other end of the charger into the power socket on the wall.
3) During the charging process, the battery symbol is displayed on the mobile to indicate the charging state. When the battery is fully charged, the battery symbol stops.
Flashing, Advise to keep the radio closed when it's charging, if you try to perform an intercom operation during charging, some abnormal phenomena may occur when the battery is almost empty.

Turn on/off the radio

Press the button to turn on or off the radio. When turn on the radio, the horn of radio sounds a boot prompt and displays all the icons on the full screen.
After the power-on done, the radio is in the walkie-talkie mode by default, displaying the currently used channel number and subtone code, etc.

Volume setting

1) In the standby or receiving state, press the < or > key, the LCD of the radio will display the current volume.
2) Then press < or > to increase or decrease the volume of the radio. 0,1-9 level the volume can be adjusted.
3) Press the key to decrease the volume to level 0, the mute icon (⊄⊠) will be displayed on the LCD of the walkie-talkie, and the speaker sound will be turned off.
Note: When the volume is not adjusted to a proper state, Don't put the speaker of the walkie-talkie too close to your ears to avoid damage to your ears due to too much sound.

Transmit and receive

1) Press and hold the [PTT] key, keep a distance of 3 to 5 cm from the microphone, and talk at a normal speaking rate. When the display launches When the icon (⌃) is displayed, it means that a message is being sent. In order to avoid cutting off your call, please press the [PTT] button to pause for a while, and then start speaking.
2) When you finish the call, please release the [PTT] key. You can receive the signal. When receiving, the icon (⌄) will be displayed.

TOT function

When you press and hold the [PTT] button for more than 15-180 seconds, the intercom will emit a continuous warning tone and the intercom will automatically stop transmitting.

Set the channel

1) In the standby state of the radio mode, press the ◎ key once, the current channel will flash.
2) Press the < or > key to select the channel number you want to set.
3) Press 【PTT】 key to save the current setting and exit the menu or press ◎

key to skip to the next menu setting.

4) The radio can only be communicated when the radio is set to the same channel, and the radio is clear and no noise.

Tone code selection

The distribution of tone codes can reduce the mutual interference between radios, but the radios with different tone codes cannot make calls. Each channel has 0 to 121 tone codes, so that your communication is more confidential. The analog subtone codes Code 1-38 are available, and the digital subtone codes Code 39-121 are available. Code 0 is the closed state of the tone code.

1) In the standby mode of the radio mode, press the ◎ key twice, the current tone code will flash.

2) Press the < or > key to select the tone code you want to set. Press and hold the < or > key to quickly switch tones

3) Press 【PTT】 key to save the current setting and exit the menu or press ◎ key to skip to the next menu setting.

Set the calling tone

1) In the standby state of the radio mode, press the ◎ key 3 times, the current call tone setting interface will flash "CA"

2) Press < or > to select the calling tone you want to set, and the intercom speaker will emit the corresponding set calling tone sound

3) Press 【PTT】 key to save the current setting and exit the menu or press ◎ key to skip to the next menu setting.

Note: When the calling tone menu setting is set to 0, it means that the setting is no calling tone, and the calling function will be invalid when the > key is long pressed.

Vox function

When the VOX function is set to on, you can use the radio to talk without pressing the [PTT] key, and speaking directly into the microphone will automatically start the transmission.

1) In the standby mode of the walkie-talkie mode, press the ◎ key 4 times, VOX will appear on the screen, and the VOX level can be set.

2) Press < or > key to select sensitivity level 1-9:
  9 = High sensitivity level   5 = Medium sensitivity level
  1 = Low sensitivity level   0 = OFF

3) Press 【PTT】 key to save the current setting and exit the menu or press ◎ key to skip to the next menu setting.

Select sensitivity 0, turn off the VOX function, and the VOX icon will disappear.

4) The transmitter can be launched into the microphone. There is a short delay between the start of speaking and the launch of the radio

5) Stop speaking, you can enter the receiving state.

Set high/low power

In the standby state of the radio mode, press the ◎ key 5 times, and "Pr" will be displayed on the screen.

Press < or > key to select power LO or HI. (LO: low power / HI: high power)

Press 【PTT】 key to save the current settings and exit the menu.

Scan function

In the standby state of the radio mode, press the ◎ key 6 times, and "SC" will be displayed on the screen.

Press < or > key to select on and off

Press 【PTT】 key to save the current settings and exit the menu to start

The scanning function of the radio scans the effective signal channels, which can easily scan 22 channels

Note: When the scan menu setting is selected as OF, the scan function will be invalid when you press the [Power Switch/Scan] key.

Start scanning:

1) In the radio standby mode, press the [Power Switch/Scan] key to enter the scan mode, the channel number will be displayed in upward increments, and the SCAN icon will be displayed on the LCD.

2) When an active channel is detected, the intercom will automatically suspend receiving signals on this channel until the signal disappears.

Lost. After the signal disappears and wait for 5 seconds, the intercom will continue to scan.

3) Press the [PTT] key during scanning, and the intercom will stop transmitting on the channel that started scanning. in the case of

When a valid signal is detected and the reception is stopped, press the [PTT] key, and the intercom will transmit on the current channel. release

Wait 5 seconds after 【PTT】 key, the intercom will continue to scan

4) Press the [Power Switch/Scan] key again to exit the scan and return to the radio standby mode.

Roger beep

1) In the standby state of the radio mode, press the ◎ key 7 times, the setting interface of the current call end tone will display "rb".

2) Press < or > key to select on and off,

3) Press 【PTT】 key to save the current setting and exit the menu or press ◎ key to end the setting.

Note: When the call end tone is turned on, press PTT after the call ends, the machine will give a prompt tone, and the receiver will also receive a prompt tone.

Button control

1) [Power switch/scan] key: long press this key to turn on or off the radio; short press this key to turn on or off the scan.

2) 【< 】 key: long press this key to switch between radios and weather forecast modes; short press this key to increase the volume.

3) 【> 】 key: long press this key to emit the calling tone; short press this key to decrease the volume.

4) 【◎ 】 key: long press this key to operate the lock or unlock function; short press this key to enter or exit the menu.

5) 【PTT】 key can be set: transmit or save settings (in menu mode).

Lock key

The keyboard lock function is to prevent users from misoperation when they don't want to change the settings of the radio

1) Press and hold the 【◎ 】 key until the icon (◌) appears to enter the keyboard lock state.
2) Long press and hold the 【◎ 】 key until the icon (◌) disappears to exit the keyboard lock state.

Note: When the keyboard is locked, except for pressing the [PTT] and [Power Switch/Scan] keys, any key press will sound a key failure tone.

Power saving function

The radio has a unique function to extend the service life of the battery. If there is no call or voice reception within 10 seconds, the walkie-talkie will automatically enter the power saving mode. In this mode, the radio can still receive information.

Headphone function

1) Connect the earphone to the walkie-talkie (radio A&B).
2) Press the PTT button of the headset of the radio A to send a voice to the MIC of the headset, and the radio B should be able to receive normally. Repeat the same operation on radio B.

Programme

The programming software can quickly change and expand the function.
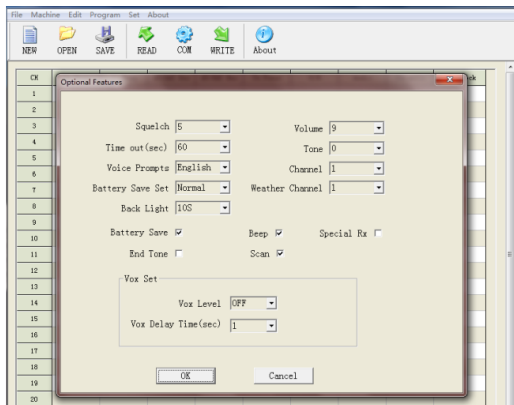
Specification Table

GENERAL	
Frequency Rang	462.5500~467.7125MHz
Channel capacity	22 CH
Working Voltage	3.7 V
Antenna impedance	50Ω
Step frequency	12.5KHz
TRANSMITTER	
Output power	2 W / 0.5 W
Adjacent channel power	≥60dB
TX current	≤1.35A
Spurious radiation	≤7.5μW
Modulation limited	≤2.5kH
RECEIVER	
RF sensitivity	≤0.25uV
Opening sensitivity	≤0.20uV
Audio output	≥300mW
Receive current	≤410 mA
Waiting current	≤20mA

Frequency table(FRS)

Channel	Frequency	Max Power Output	Channel	Frequency	Max Power Output
1	462.5625MHz	2 W	12	467.6625MHz	0.5 W
2	462.5875MHz	2 W	13	467.6875MHz	0.5 W
3	462.6125MHz	2 W	14	467.7125MHz	0.5 W
4	462.6375MHz	2 W	15	462.5500 MHz	2 W
5	462.6625MHz	2 W	16	462.5750 MHz	2 W
6	462.6875MHz	2 W	17	462.6000 MHz	2 W
7	462.7125MHz	2 W	18	462.6250 MHz	2 W
8	467.5625MHz	0.5 W	19	462.6500 MHz	2 W
9	467.5875MHz	0.5 W	20	462.6750 MHz	2 W
10	467.6125MHz	0.5 W	21	462.7000 MHz	2 W
11	467.6375MHz	0.5 W	22	462.7250 MHz	2 W

Weather channel and frequency

Channel	Frequency	Channel	Frequency
WX1	162.550MHz	WX7	162.525MHz
WX2	162.400MHz	WX8	161.650MHz
WX3	162.475MHz	WX9	161.775MHz
WX4	162.425MHz	WX10	161.750MHz
WX5	162.450MHz	WX11	162.000MHz
WX6	162.500MHz		

Specification Table

GENERAL	
Frequency Rang	446.00625~446.19375MHz
Channel capacity	16 CH
Working Voltage	3.7 V
Antenna impedance	50Ω
Step frequency	12.5KHz
TRANSMITTER	
Output power	≤0.5 W
Adjacent channel power	≥60dB
TX current	≤1.35A
Spurious radiation	≤7.5µW
Modulation limited	≤2.5kH
RECEIVER	
RF sensitivity	≤0.25uV
Opening sensitivity	≤0.20uV
Audio output	≥300mW
Receive current	≤410 mA
Waiting current	≤20mA

Frequency table(PMR)

Channel	Frequency	Max Power Output	Channel	Frequency	Max Power Output
1	446.00625MHz	0.5 W	9	446.10625MHz	0.5 W
2	446.01875MHz	0.5 W	10	446.11875MHz	0.5 W
3	446.03125MHz	0.5 W	11	446.13125MHz	0.5 W
4	446.04375MHz	0.5 W	12	446.14375MHz	0.5 W
5	446.05625MHz	0.5 W	13	446.15625MHz	0.5 W
6	446.06875MHz	0.5 W	14	446.16875MHz	0.5 W
7	446.08125MHz	0.5 W	15	446.18125MHz	0.5 W
8	446.09375MHz	0.5 W	16	446.19375MHz	0.5 W

Guarantee

Model Number:

Serial Number:

Purchasing Date:

Dealer: _____ Telephone:

User's Name: _____ Telephone:

Country: _____ Address:

Post Code: _____ Email:

Remarks:

1.This guarantee card should be kept by the user, no replacement if lost.

2.Most new products carry a two-year manufacturer's warranty from the date of

purchase. Further details, pls read http://www.retevis.com/after-sale/

3.The user can get warranty and after-sales service as below:

· Contact the seller where you buy.

· Products Repaired by Our Local Repair Center

4.For warranty service, you will need to provide a receipt proof of purchase from the

 actual seller for verification

Exclusions from Warranty Coverage:

1.To any product damaged by accident.

2.In the event of misuse or abuse of the product or as a result of unauthorized

alterations or repairs.

3.If the serial number has been altered, defaced, or removed.

FCC 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 received, including interference that may cause undesired operation.

NOTE 1: 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, 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- This radio is designed for and classified as "Occupational/Controlled 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; NOT intended for use in an General population /uncontrolled environment.

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.

- DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded.

- This transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between user and the device or its antenna shall be at least 2.5 cm.