



Shenzhen Retevis Technology Co.,Ltd.

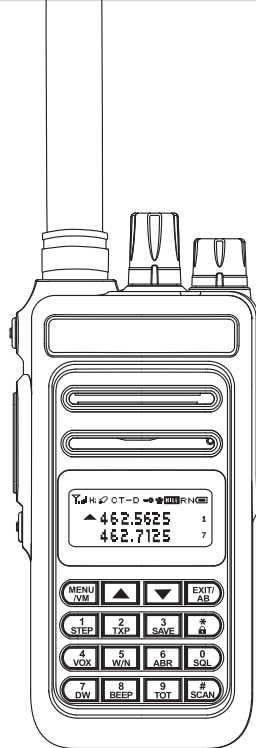
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MADE IN CHINA



RETEVIS

RT76P

Two Way Radio

USER'S MANUAL

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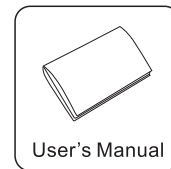
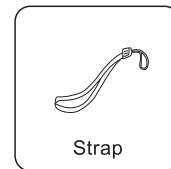
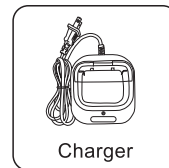
Warning

- Please read this manual carefully before using this transceiver.
- Please do not communicate or charge this transceiver in flammable, explosive and area which transceiver communication is prohibited (such as oil station, gas station, airport etc.)
- Please do not operate this transceiver without license in government laws banned areas.
- Please make sure this transceiver avoids the sunshine, and avoids to put it near any heating device.
- Please make sure this transceiver avoids any dusty, humid and water splashed place, and also to put it near any heating device.
- If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then please contact your nearest distributor.
- The repair job of this transceiver is in the charge of professionals & technical's, self-disassembly is prohibited.

Unpacking and Checking the Equipment

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missing or has been damaged during shipment, please contact your first seller.

Standard Accessories



Battery Information

Notice for charging battery

The battery is not charged at the factory, please charge it before using. Charge the battery for the first time after purchase or extended storage (more than 2 months) may not bring the battery to its normal operating capacity. After repeating fully charge/ discharge cycle for two or three times, the operating capacity will reach the best performance. The battery life will be over when the operating time decreases even though it fully and correctly charged. Please replace the battery.

Battery Charger Type

Please use our company's designated charger; other models may cause explosion and injure people.

Notice:


1. Do not short-circuit our company designated charger. Never attempt to remove the casing from the battery, we show no responsibility on the faulty caused by modifying freely without permission of our factory.
2. The ambient temperature should be between 0 and 40 in charging. Charging outside this range may not fully charge the battery.
3. Always switch off the transceiver equipped with a battery before charging. Otherwise, it will interfere with correct charging.

4. To avoid interfering the charging procedure, please do not cut off the power or take out the battery during charging.
5. Don't recharge the battery if it is already fully charged. This may shorten the life of the battery or damage the battery.
6. Don't charge the battery or transceiver if it is damp. Dry it before charging to avoid danger.
7. Don't charge the battery or the transceiver when it is wet. Wipe dry with a dry cloth before charging to avoid danger.

WARNING:

when buttons or ornamental chains and other electric metals with the battery terminals, the battery may cause damage or hurt bodies. If the battery terminal short circuit, it will generate a lot of heat, please be careful when you bring or use the battery, please put battery or radio into an insulated container. Do not put it into the metal container.

How to charge the battery

After installing the battery, if the battery capacity indicating icon shows  , it means Low Battery, please charge the battery. Please use our company default charger to charge the battery; the charger light will indicate the charging status.

Indicator	Status
Red Light	In Charging
Green Light	Fully Charged

How to charge the Battery

1. Plug the charger into the AC power outlet.
2. Connect the battery or walkie-talkie with the battery to the Charging dock
3. Please make sure the battery is well connected to the charging contacts. Meanwhile the indicator light turns red, charging starts.
4. Charging time is about 4 hours . After 4 hours, the indication light will turn green, charging finishes.

CAUTION: Power-off the radio when charging.

Maintenance And Cleaning

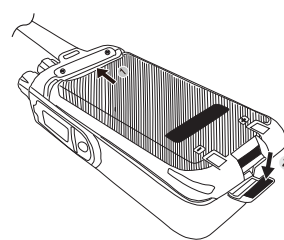
- Do not directly hold the antenna or external microphone.
- Use the cloth without wool to wipe the dust on intercom, dirty quality, prevent contact bad.
- please cover the headphone jack when not using the intercom.
- after long-term use of the intercom, the keys, control buttons and the case is easy to get dirty, you can use a neutral detergent (do not use highly corrosive chemicals) and warm cloth cleaning.

Accessory Installing

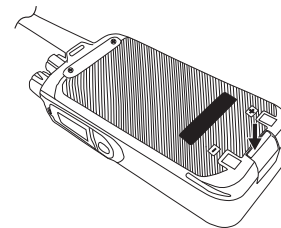
Installing/Removing the Battery Pack

Install the battery pack, insert the top two ends of the battery pack into the two grooves on the top of the intercom, and then buckle the bottom. (1)

When the battery is removed, please first confirm that the intercom is off, then break the bottom of the buckle, the battery can be removed from the ejection side. (2)



(1)



(2)

Installing/Removing the Belt Clip

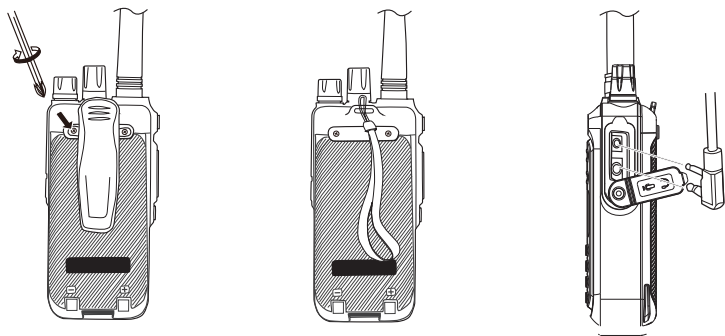
Place the belt clip to the corresponding grooves on the back of the transceiver, and the clockwise screw it. Anticlockwise turn screw to remove the belt clip.

Installing optional string

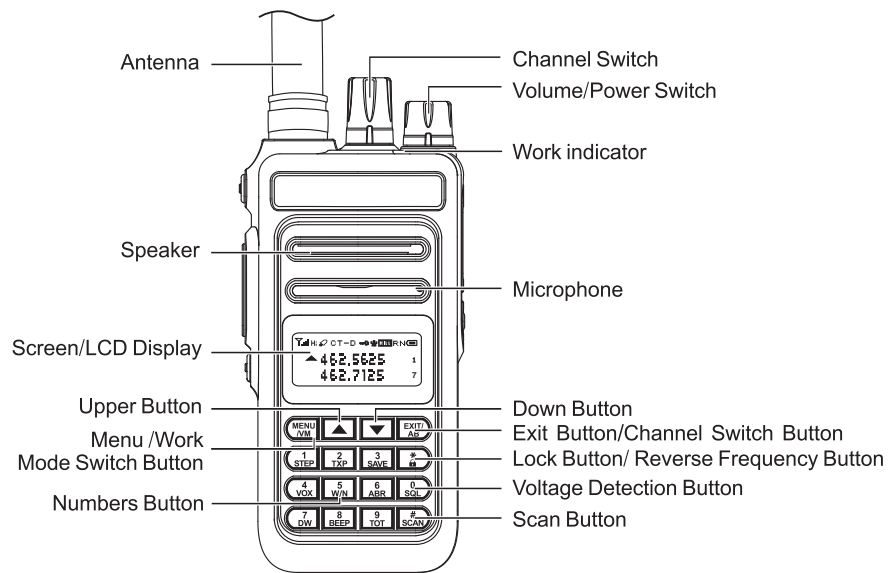
Insert the walkie-talkie strap into the middle ring of the walkie-talkie.

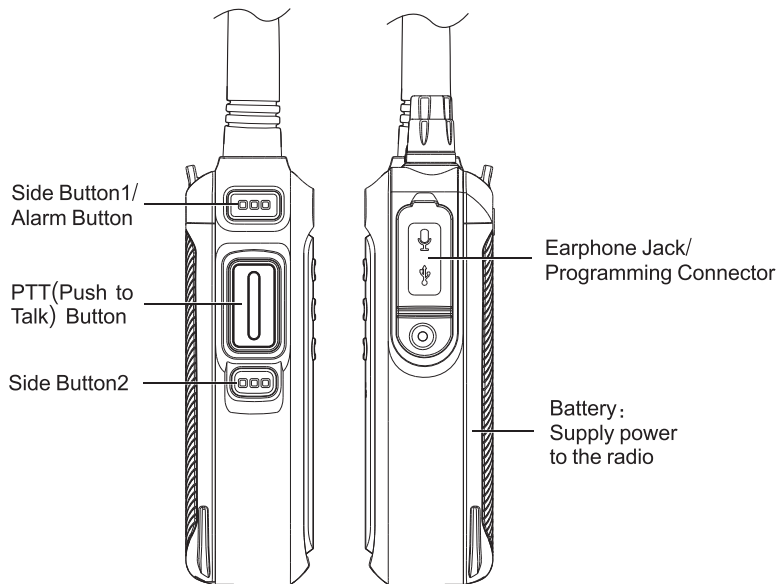
Installing optional Speaker/Microphone

Uncover the MIC-SP cover and the insert the HS03 speaker/microphone plug into MIC-SP Jack.



Getting Acquainted





1. PTT button

Transmit and receive the switch button. When transmitting, press this button and speak to the microphone. Release this button for receiving.

2. Side Button 1(Alarm button)

Short press to turn on ID list. Long press to turn on the alarm function. There are 3 modes of alarm, which can be edited through menu operation and programming software.

3. Side Button 2

The multi-function button. The multi-function button has two modes: long press and short press. The button functions can be edited by the programming software. There are 6 types of functions: FM radio, power switch, monitor, scan, NOAA and talk around.

4. LCD Display

Display all working status of the two way radio.

5. 360 degree Channel Switch

Replace 【 ▲ 】 / 【 ▼ 】 buttons, for changing channels, frequency, and menu and so on.

6. A/B Band Switch

under the standby status, short press 【 EXIT/AB 】 to select A band or B band. When selected, the transmission will be transmitted with priority on the current channel.

7. Switch frequency mode / channel mode

under the standby status, long press 【 MENU / FM 】 to select frequency model and channel mode.

Function Keyboard

Menu selection / confirmation button: []

[] Button (Long press for more than two seconds, fast forward)

[] Button (Long press for more than two seconds, back fast)

[] Exit/Delete Button (In the input status, clear the entered information)

Number Keyboard

Used to input information to the programming menu of the radio; In the non-standard CTCSS editing status, you can directly input the non-standard CTCSS; press the number button in the transmitting state to send the corresponding DTMF code.

[] **Button:**

Press for a short time to turn on the reverse frequency function, and the receiving and transmitting frequencies will be reversed.

Long press for more than two seconds will turn on the keyboard lock; repeat the operation to unlock the keyboard.

[] **Button:**

Press and hold for more than 2 seconds in standby mode to start the scan function; In the FM radio state, short press this button to automatically search for FM radio stations.

[] **Button:**

Press and hold for more than 2 seconds in standby mode to display the current battery voltage.

Power / Volume Switch

Turn on the radio when turning clockwise; turn it fully counterclockwise and turn off the radio when you hear a "click" sound;

Turn clockwise to increase the volume, decrease on the contrary.

Status indicator

Transmit: Red light on

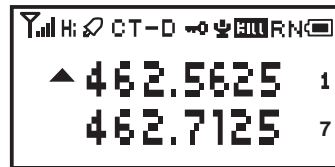
Receive: Green light on

External Jack






Used to connect earphone and programming cable. When programming cable is connected, you can use programming software and update the program by computer.











LCD Screen Display

The corresponding function icon will be appeared on the screen during operation. This display allows you to know more about the meaning of the indicator and how to set the functions.



Icon Instruction

Icon	Instruction
	Channel strength indication
	The current transmit power is high power (the longest communication distance and the biggest power consumption);
	The current transmit power is low power (the most power saving, the communication distance is relatively not far)
	This symbol appears when the side tone switch is set to button side tone / button + identity code / identity code
DCS	This symbol indicates that the current status is DCS
CT	This symbol indicates that the current status is CTCSS
+	This symbol appears in the frequency mode, which indicates that the transmitting frequency is the receiving frequency plus a frequency difference frequency. The frequency of the frequency difference is set in menu 27.
-	This symbol appears in frequency mode, which means that the transmitting frequency is the receiving frequency minus a frequency difference frequency. The frequency difference frequency. is set in menu 27.
	The appearance of this symbol indicates that dual-frequency waiting is on, and it is in a dual-waiting state.

Icon	Instruction
	This symbol appears when the buttonboard is locked; press the [*] button to unlock and the symbol disappears
	Indicates that the sound emission function is activated. When the sound pressure level of the microphone reaches the set value, the emission starts.
	Remote kill indication
	Reverse the receiving and transmitting frequency under channel mode and frequency mode
	It appears when the channel is working in narrowband mode
	Display the current remaining power of the battery;  Battery full charge indication;  Battery remaining amount reminder;  The battery is nearly empty, the icon frame will flash, and the radio is prohibited from transmitting at this time
Arabic NO.	Current channel number
Arabic NO.	Current channel number
	Current working channel
Arabic NO.	Current working frequency

Quick operation instructions

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
0	Squelch	0 ,..., 9	Squelch level. The lower the level, the more easily it will be disturbed. The higher the level, the worse the sensitivity. Best set to medium.
1	Step	2.5KHZ,5.0KHZ,6.25KHZ,10KHZ	In frequency mode, press [▲] or [▼] button to change the frequency step
		12.5KHZ,20KHZ,25KHZ50KHZ	
2	Tx Power	High	Transmission at high power
		Low	Transmission at low power
3	Power save	OFF	Turn off power save mode
		ON	Turn on power save mode
4	Vox Level	OFF	Turn off VOX mode
		1, 2, ... 10	Activated sound pressure level
5	Bandwidth	Wide	Wide band working
		Narrow	Narrow band working
6	Backlight	Bright	Backlight always on
		1Sec,2Sec,... 10Sec	Time from backlight to auto off

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
7	Dual Standby	OFF	Turn off Dual Standby
		ON	Turn on Dual Standby
8	Beep Prompt	OFF	Turn off Beep prompt
		ON	Turn on Beep Prompt
9	VOICE	OFF	Turn off VOICE
		ON	Turn on VOICE
10	Tx over time	OFF	Press and hold PTT Button to transmit
		15,30,...600	Numbers from 15 to 600, in 15-step increments, indicating the maximum time to transmit when the PTT button is pressed
11	Rx DCS	OFF	No CTCSS/DCS
		D023N,...,D754I	DCS sequence
12	Rx CTCSS	OFF	No CTCSS/DCS
		67.0HZ,...,254.1HZ	CTCSS sequence, Simultaneous typing of standard or CTCSS non-standard by buttonboard

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
13	Tx DCS	OFF	No CTCSS/DCS
		D023N, ..., D754I	DCS sequence
14	Tx CTCSS	OFF	No CTCSS/DCS
		67.0HZ, ..., 254.1HZ	CTCSS sequence, Simultaneous typing of standard or CTCSS non-standard by buttonboard
15	Voice Compand	OFF	Turn off voice compandor
		ON	Turn on voice compandor
16	DTMFST	OFF	
		DT-ST	Can monitor the DT - ST
		ANI-ST	Only monitor to the ANI - ST
		DT+ANI	Both monitor
17	R-TONE	1000Hz/1450Hz/ 1750Hz/2100Hz	Repeat signaling code selection


Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
18	S-CODE	1,2, ...,15	When needed, send the group of information codes(Information code can only be written by frequency writing software)
19	Scan Mode	Time	Time mode scan, stay on the current channel for a while after scanning the signal, and then continue scanning
		Carrier	Carrier mode scanning, stop scanning after scanning the signal until the signal disappears
		SearCH	Search mode: stay on the current channel after scanning the signal
20	ANI Match	OFF	Turn off ANI - Match
		ON	Turn on ANI - Match, The speaker can only sound after receiving the correct identity signaling decode
21	PTT-ID	OFF	Press PTT without sending code
		BOT	Press PTT to send the code (the content of the transmission code is set by the frequency writing software)
		EOT	Release PTT sent code

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
21	PTT-ID	BOTH	Send and release codes when you release and press the PTT button
22	MDF-A	Frequency	Channel mode is in frequency mode
		Name	Channels are displayed as channel names (The specific name is set in the writing software)
		CH NUM	Display by channel number
23	MDF-B	Frequency	Channel mode is in frequency mode
		Name	Channels are displayed as channel names (The specific name is set in the writing software)
		CH NUM	Display by channel number
24	Busy Lockout	OFF	Channel occupied also allows transmission
		ON	Channel is occupied and transmission is prohibited
25	Key Auto Lock	OFF	Turn off button auto lock
		ON	Turn on button auto lock
26	Direction	None	In frequency mode, there is no frequency difference between the transmitting frequency and the receiving frequency

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
26	Direction	Plus	In frequency mode, the transmitting frequency is equal to the receiving frequency plus the frequency difference
		Minus	In frequency mode, the transmitting frequency is equal to the receiving frequency minus the frequency difference
27	Offset	00.0000, ..., 99.9975	In frequency mode, the difference between transmitting and receiving frequencies (whether it is effectively controlled by the frequency difference direction)
28	WT-LED	Close, Blue, Orange, Purple	Standby time backlight colors selection. Default Color is Blue
29	RX-LED	Close, Blue, Orange, Purple	Receiving time backlight colors selection. Default Color is Purple
30	TX-LED	Close, Blue, Orange, Purple	Transmitting time backlight colors selection. Default Color is Orange
31	Alarm Mode	On Site	Local Alarm Sound
		Send Sound	Giving local alarm sound while sending alarm sound to other members automatically
		Send code	Giving local alarm sound while sending the pre-set DTMF identification code

Menu No.	First level menu display characters	Second level menu display characters	Description of the secondary menu settings
32	TAIL	OFF	After releasing the PTT, the machine does not shut down. Usually, when it is relayed through the relay, it will make noise to confirm whether the local signal is relayed.
		ON	After releasing the PTT button, the machine sends a shutdown code to suppress the instantaneous noise from the listener.
33	PROGER	OFF	Turn off call end tone
		ON	Turn on call end tone
34	Language	Chinese	
		English	
35	OPENMGS	LOGO MESSAGE VOL TAGE	Preset icons can be set by the writing software
36	ANI ID		Query local identity ID code
37	Reset	VFO	Menu initialization
		ALL	Menu and channel initialization

◆ **Automatic FM radio channel search**

Under FM radio mode, press [] button shortly to turn on the automatic FM radio channel search.





◆ **Current voltage inquiry**

Under standby mode, press [] button to query the current battery voltage.

◆ **Launch DTMF**

Press the [PTT] button and the number button, launching the relevant DTMF number, or through the PTT-ID function to launch DTMF number. PTT-ID will send the selected signaling code group.








Tip:

[] / [] / [] / [] buttons are corresponding to DTMF [A] [B] [C] [D] .

Main function operations

◆ VOX









When this function is turned on, if the volume level of the user's speech reaches the selected electric frequency of the walkie talkie, the 【PTT】 button is not required, and the walkie talkie can also start the transmitting operation through voice. At some working stations, users can't call by pressing 【PTT】, that can use this function.

- (1) Under the standby condition, pressing 【】 button, voice prompt menu settings, enter functional menu settings.
- (2) Pressing 【】 or 【】 buttons, select 4 menu numbers forward or backward. Or enter the number 4 directly to enter the 4 menu number.
- (3) Pressing 【】 button, voice prompt “VOX launch”, choose 1-10 by press 【】 or 【】 button. (The higher the value, the higher the sensitivity; as choose 3)
- (4) Pressing 【】 button, voice prompt “sure”, save and return to parent menu.
- (5) Repeat operations above, choose OFF to turn off the VOX


Tips: when turn on the VOX function, speak into the microphone, and the voice can be sent out. Stop talking, and the transmission will also stop. You can choose VOX sensitivity level according to quiet degree of using environment. If too much environmental noise, it will long launch when turn on the VOX.

◆ Keyboard Lock

Keyboard lock forbidden number buttons to prevent you from activating a function by mistake. The radio can set as auto Keyboard lock function. The operation is as follows:

- (1) Under the standby condition, pressing 【】 button, voice prompt menu settings, enter functional menu settings.
- (2) Pressing 【】 or 【】 buttons, select 25 menu numbers forward or backward. Or enter the number 2 and 5 directly to enter the 25 menu number.
- (3) Pressing 【】 button, pressing 【】 or 【】 button, choose ON.
- (4) Pressing 【】 button, voice prompt “sure”, save and return to parent menu. Automatic keypad lock active.
- (5) Repeat operations above, choose OFF to turn off the automatic keypad lock and choose manual keypad lock. The operation is as follows:
 - ① Under the stand by conditions, press the 【】 2 seconds to turn on keypad lock function (voice prompt “keypad lock”)
 - ② Repeat press * button 2 seconds to turn off keypad lock. (voice prompt “keypad unlock”)



Tips:




After the automatic keyboard locking function is turned on, when it is not locked, there is no keyboard operation for 10 seconds, and the number keyboard is automatically locked. LCD icon display after keyboard lock is opened “”.


◆ Dual Standby

Under this function, radio can receive frequency set by A or B channel. The operation is as follows:

(1) Under the standby condition, pressing  button, voice prompt “menu setting”, enter functional menu settings.

(1) Pressing  or  buttons, select 7 menu numbers forward or backward. Or enter the number 7 directly to enter the 7 menu number.

(2) Pressing  button, voice prompt “Dual standby”, pressing  or  button, choose ON.

(3) Pressing  button, voice prompt “sure”, save and return to parent menu. LCD panel display character D

Tips: Repeat operations above; choose OFF to turn off dual standby. Under the menu model, dual standby turn off temporarily, and recover after exit.

◆ Voice Compandor

Through this function, it can reduce noise of call effectively.

◆ DTMFST

After it turns on, When the walkie talkie transmits, the speaker will send out the corresponding dual tone multi frequency sound. There are three modes for monitoring side tone: Button + ID code side tone, button side tone and ID code side tone.

◆ R-Tone

Press PTT button to send tone while holding down side button to define 1 button. There are four tone tones, 1000Hz, 1450Hz, 1750Hz and 2000Hz, which can be selected through the menu or frequency write software.

◆ R-Code

Used to extract the edited corresponding identity code group. The ID code group can be edited by frequency writing software. For editing method, please refer to DTMF editor description.

◆ Scan Mode

There are three scanning modes: time scanning, carrier scanning and search scanning

1. TO, stay for a while after scanning the signal, and then continue scanning

2.CO, stop scanning after scanning the signal until the signal disappears

3. SE, the search mode scans and searches the signal and stays in the current channel

◆ ANI Match





After turn on this function, the machine recognizes the effective identity code, the caller ID / GROUP / ALL / CALL will be displayed on the screen. After the effective ID is recognized, the machine will turn on the horn and reset the effective TOT (5S). That is to say, if a valid ID is recognized or a call is initiated actively, the horn can be turned on within 5S without ID recognition.






◆ Setting Methods of All Call / Group Call / Groups Call / Single Call

At the same time of launching, directly input the call ID code on the keyboard. For example, all members in a certain place are divided into 6 groups and 2 groups. Each group has 5 members.

The member ID settings are as follows:

A Group			B Group		
First Team	Second Team	Third Team	Fourth Team	Fifth Team	Sixth Team
121	131	141	221	231	241
122	132	142	222	232	242
123	133	143	223	233	243
124	134	144	224	234	244
125	135	145	225	235	245

- 1.1. Only send the ID code, and only send the receiver's ID code when calling. Then the receiver's LCD will display "P: call" after identification
- 1.2. When sending the receiver's ID code + [*] + caller's ID code, the receiver will display "P: caller's ID code" on the LCD. For example: if A's ID 121, B's ID 123, then A sends 123 * 121, B shows P: 121, realizing personal call.
- 1.3. Send the first two numbers of the first group [] [] + [] + [], then all members of the first group receive the signal, and after identification, it will be displayed as "P: group!" on the LCD to realize group call.

- 1.4. Send group A's first ID number [] + [] + [], only all members of group A's three groups receive the signal, and the group call will be realized if it is displayed as "P: group!" on the LCD after identification.
- 1.5. Send any digit + [] + [] to call all members. After identification, the LCD displays "P: ALL" to realize all call.

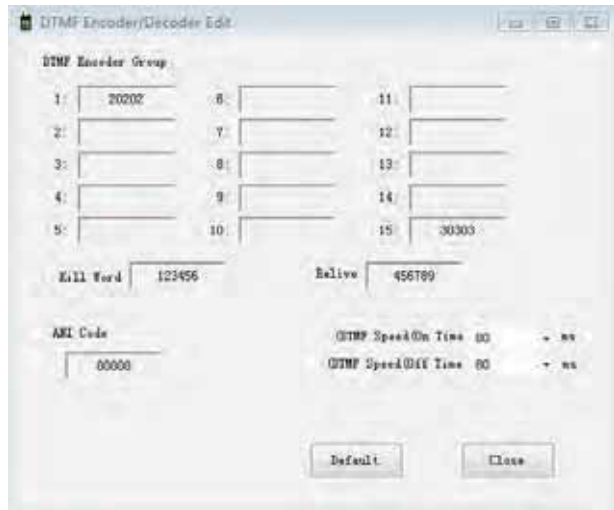
Tips:

1. Only when turn on ANI Match function, All Call / Group Call / Groups Call / Single Call will be activated.
2. After ANI Match function is turned on, the speaker can only be turned on within 5 seconds after receiving the correct signaling code or active call.

◆DTMF Editor

This radio can realize fast code sending by editing the stored ID code in advance. The editing method is as follows:

Open DTMF editor of write frequency software, as shown in the figure, edit ID code you want to edit:



Tips: When editing the ID code in the ID editor, you do not need to edit your own ID code; the receiver and sender's own ID code must be set to three digits to realize the call display.

◆ PTT-ID

PTT-ID refers to sending DTMF code edited in advance when PTT button is pressed for transmission. There are three modes of PTT-ID: code sending when PTT button is pressed, code sending when PTT button is released, code sending when PTT button is pressed or released.

◆ Alarm Mode

In case of emergency, the alarm function can be turned on to remind the nearby personnel to be vigilant. Long press 2 seconds to define side button 1 to turn on the alarm function, repeat the operation or press PTT button to turn off the alarm. There are three alarm modes: sending alarm tone, sending alarm code and on-site alarm.

1. Send alarm tone: send alarm tone at the same time as the local alarm
2. Send alarm code: send the current stored ID code at the same time of alarm
3. On site alarm means that only the local machine sends out an alarm tone

◆ Tail

Tail means that the speaker is mute after the end of the transmission; the closing Tail means that the other speaker makes a "click" at the moment of the end of the transmission

◆ OPENMGS

It has three modes: preset icon, preset information and battery voltage. Preset icon and preset information can be edited by frequency writing software.

◆ Remote Stun

At the same time of transmission, the signaling code is sent, and the other party is remote stun after

receiving the code. The LCD screen displays "kiss", which cannot be received or transmitted.


◆ Canceling Remote Stun

Only after receiving the canceling remote stun code can the machine be returned to normal use.

◆ Talk Around

This function can be realized by defining side button2. After talk around is turned on, the current channel transmits at the receiving frequency. LCD display character "t" when the function is turned on.

◆ Reverse Frequency

In standby mode, press [] button to turn on the reverse frequency function. After it is turned on, the transceiver frequency will be exchanged. That is, RX frequency becomes TX frequency, and TX frequency becomes RX frequency. When the reverse frequency is turned on, the LCD simultaneously displays "R".

Technical Specifications

Specifications:	
Frequency Range	GMRS
Frequency Sensitivity	± 2.5 ppm
Rated Voltage	7.4V DC ± 20%
Antenna Impedance	50
Working Space	Same frequency single working or different frequency single working
Transmitter:	
Modulation Mode	16K ϕ F3E/11K ϕ F3E
Maximum Frequency Deviation	≤ 5kHz / ≤ 2.5kHz
Adjacent Channel Power	≥ 65dB ≥ 62dB
Spurious Power	≤ 7.5uW
Preemphasis Character	6dB/every time the frequency will increase
Current	≤ 1.6A

Wide/Narrow	0.75kHz \pm 0.1kHz, 0.4kHz \pm 0.1kHz
Modulation Sensitivity	8–12mV
Audio Distortion	\leq 5%
Receiver:	
Sensitivity	$\leq -0.2\mu\text{V}$ $\leq -0.25\mu\text{V}$
Voice Output Power	\geq 500mW
Audio Distortion	\leq 5%
Obstruct	\geq 85dB
Inter-modulation	\geq 65dB \geq 60dB
Adjacent Channel Selection	\geq 65dB \geq 60dB
Spurious Rejection	\geq 65dB

Factory default settings

			GMRS			
channel	RX	TX	power	bandwidth	CTCSS/DCS	Remarks
1	462.5625	462.5625	5W	12.5KHz	67.0	
2	462.5875	462.5875	5W	12.5KHz	118.8	
3	462.6125	462.6125	5W	12.5KHz	127.3	
4	462.6375	462.6375	5W	12.5KHz	131.8	
5	462.6625	462.6625	5W	12.5KHz	136.5	
6	462.6875	462.6875	5W	12.5KHz	141.3	
7	462.7125	462.7125	5W	12.5KHz	146.2	
8	467.5675	467.5675	0.5W	12.5KHz	D243N	
9	467.5875	467.5875	0.5W	12.5KHz	D032N	
10	467.6125	467.6125	0.5W	12.5KHz	D047N	
11	467.6375	467.6375	0.5W	12.5KHz	D051N	
12	467.6625	467.6625	0.5W	12.5KHz	D053N	
13	467.6875	467.6875	0.5W	12.5KHz	D065N	
14	467.7125	467.7125	0.5W	12.5KHz	D116N	
15	462.5500	462.5500	5W	12.5KHz	123	
16	462.5750	462.5750	5W	12.5KHz	D743I	

channel	RX	TX	GMRS		CTCSS/DCS	Remarks
			power	bandwidth		
17	462.6000	462.6000	5W	12.5KHz	D332I	
18	462.6250	462.6250	5W	12.5KHz	127.3	
19	462.6500	462.6500	5W	12.5KHz	D243I	
20	462.6750	462.6750	5W	12.5KHz	D606N	
21	462.7000	462.7000	5W	12.5KHz	D731I	
22	462.7250	462.7250	5W	12.5KHz	136.5	
23	462.5500	467.5500	5W	12.5KHz	136.5	
24	462.5750	467.5750	5W	12.5KHz	136.5	
25	462.6000	467.6000	5W	12.5KHz	136.5	
26	462.6250	467.6250	5W	12.5KHz	136.5	
27	462.6500	467.6500	5W	12.5KHz	136.5	
28	462.6750	467.6750	5W	12.5KHz	136.5	
29	462.7000	467.7000	5W	12.5KHz	136.5	
30	462.7250	467.7250	5W	12.5KHz	136.5	

Warnings

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE TWO-WAY RADIOS



ATTENTION!

Before using this radio, read this guide which contains important operating instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulations.

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage.

All Retevis two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: <http://www.who.int/en/>

Local Government Regulation

When two-way radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Retevis two-way radio has a RF Exposure Product Label. Also, your Retevis user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Radio License

Governments keep the radios in classification, business two-way radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur...).

To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your two radios, please contact the local government radio management departments.

Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Unauthorized modification and adjustment

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

FCC Requirements:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (Licensed radios are applicable);

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (Other devices are applicable)

(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:

• This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

• 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.

CE Requirements:

• (Simple EU declaration of conformity) Shenzhen Retevis Technology Co., Ltd. declares that the radio equipment type is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU; the full text of the EU declaration of conformity is available at the following internet address: www.retevis.com.

• Restriction Information

This product can be used in EU countries and regions, including: Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK). For the warning information of the frequency restriction, please refer to the package or manual section.

• Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.



IC Requirements:

Licence-exempt radio apparatus

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic

Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
 - (1) l'appareil ne doit pas produire de brouillage;
 - (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure Information

- 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, and the antenna gain shall not exceed the specified gain by the manufacturer declared.
- 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.
- During transmissions, your 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.
- Portable Device, 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.
- Mobile Device, during operation, the separation distance between user and the antenna subjects to actual regulations, this separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements.
- Occupational/Controlled Radio, 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 a General population/uncontrolled environment.

- General population/uncontrolled Radio, this radio is designed for and classified as "General population/uncontrolled Use".

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits, always adhere to the following procedures.

Guidelines:

- User awareness instructions should accompany the device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To Transmit (Talk), push the Push to Talk (PTT) button. To receive calls (listen), release the PTT button. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance.
- Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from a properly installed according to installation instructions, externally mounted antenna.
- When operating in front of the face, worn on the body, always place the radio in a Retevis approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Non-Retevis approved accessories may result in exposure levels, which exceed the IEEE/ICNIRP RF exposure limits.

Hand-held Mode

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.



Phone Mode

- When placing or receiving a phone call, hold your radio product as you would a wireless telephone. Speak directly into the microphone.

Electromagnetic Interference/Compatibility

NOTE: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Avoid Choking Hazard



Small Parts. Not for children under 3 years.

Turn off your radio power in the following conditions:



- Turn off your radio before removing (installing) a battery or accessory or when charging battery.
- Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (flammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio while taking on fuel or while parked at gasoline service stations. To avoid electromagnetic interference and/or compatibility conflicts.
- Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical Devices) may be using equipment that is sensitive to external RF energy.
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Protect your hearing:



- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against

your ear.

- Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.
Note: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

Avoid Burns



WARNING

Antennas

- Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.

Batteries (If appropriate)

- When the conductive material such as jewelry, keys or chains touch exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects

Long transmission

- When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Safety Operation

Forbid



WARNING

- Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
- Do not disassemble the charger, that may result in risk of electrical shock or fire.
- Do not operate the charger if it has been broken or damaged in any way.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.

To reduce risk

- Pull by the plug rather than the cord when disconnecting the charger.
- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.
- Contact Retevis for assistance regarding repairs and service.
- The adapter shall be installed near the equipment and shall be easily accessible.

Approved Accessories



- This radio meets the RF exposure guidelines when used with the Retevis accessories supplied or designated for the product. Use of other accessories may not ensure compliance with the RF exposure guidelines and may violate regulations.
- For a list of Retevis-approved accessories for your radio model, visit the following website:
<http://www.Retevis.com>

Please cut along with this line

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.