

	AT	BE	CY	CZ	DK	EE	FI
				HU			
	LT	LU	MT	NL	PL	PT	SK
<u> </u>	SI	ES	SE	UK	BG	RO	HR

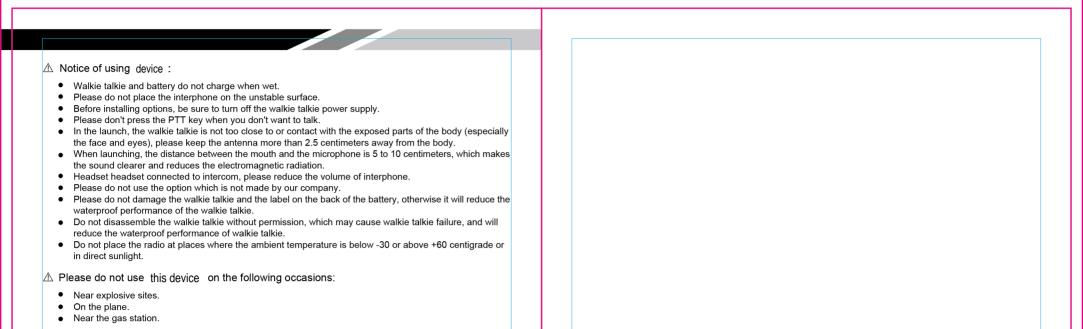
IMPORTANT ITEMS

Please read the instructions carefully before using. Please keep this manual.

- The direct mode, transfer mode, a cluster mode of operation, please consult your dealer.
- ▲ Precautions for battery use:
 - Please do not disassemble or refit batteries.
 - There is a protective circuit inside the battery, disassembly or modification of the battery will lead to damage to the protection circuit, the battery may produce smoke, rupture or fire.
 - Do not short-circuit the battery. Do not use any metal to connect the battery "+" pole and "-" pole, do not use metal object container to store and store battery. If the battery is short circuited, it will produce too large current, the battery will heat, smoke, break or fire.
 - Please do not place the battery near the fire, stove or other heater. Please don't burn or heat the battery. Batteries can produce heat, fireworks, breaks, or fires.
 - Do not expose the battery to rain, snow, sea water or any other liquid. Do not charge or use wet batteries. If the battery gets wet, it must be dried before use.

▲ Precautions for charger:

- Please do not plug the vent of the charger, otherwise it may cause internal parts damage and cause electric shock or fire. ٠
- Please don't let the charger close to the radiator or heat source; please don't pad the paper under the charger.
- Please do not put the charger in a closed container and on the bed, sofa or carpet. ٠
- Please do not use the charger in the bathtub, the pool, the swimming pool or the wet basement. •
- Please do not place the metal sheet in a holder, otherwise the conductive material may damage the machine.
- Please don't press the power supply to bend or twist the pins.
- Please do not allow the charger to have stains, dust, water traces or food.
- Please do not put the charger in high temperature or exposure to the sun.



3 equipment arrembly

Technical indicators

General s	specification
frequency range (MHz)	400-470MHz
Working Voltage	6.2V-8.4V
working voltage	DC 7.4V
Channel interval	12.5kHz
working temperature	-30°C ~+50 °C
Max Antenna Gain	2.15dBi
Rec	eive
frequency range (MHz)	400-470MHz
Frequency stability	± 1.0ppm
Simulation sensitivity	-120dBm(12 dB SINAD)
Digital sensitivity	–118dBm (BER 5%)
intermodulation	TIA603C: 55dB ETSI: 55dB
Adjacent channel selectivity	TIA603C: ≥60dB@12.5KHz ETSI: ≥60dB@12.5KHz
Receive stray radiation	–57dBm@ < 1GHz, –47dBm @> 1GHz
block	≥84dB
Rated audio power	1W
Audio response	+ 1dB ~ - 3dB
Rated audio distortion	≤3%

frequency range (MHz)	400-470MHz
Frequency stability	± 1.0ppm
Emissive power	Low: 1.0 W, High: 5 W
Emission current	Low: ≤1.00A, High: ≤1.70A
FM noise	-40dB@12.5kHz
Emission and stray radiation	-36dBm@<1GHz, -30dBm@>1GH
Adjacent channel power	-60dB@12.5KHz
FM modulation mode	12.5KHz: 11K0F3E
	12.5KHz(data only): 7K60F1D
4FSK digital modulation mode	12.5KHz(data + voice): 7K60F1E
Modulation limitation	≤2.5KHz@12.5KHz
Idle time slot power	≤-57dB
Audio response	+ 1dB ~ - 3dB
Rated audio distortion	≤3%
Digital protocol	ETSI TS 102 361-1, -2, -3
Digital speech codec	AMBE + 2™

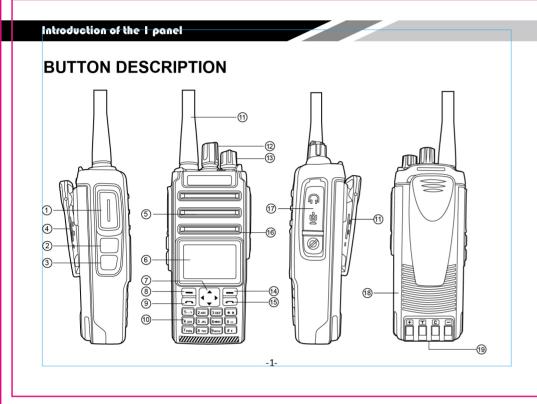
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1Panel introduction	
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3 equipment assembly



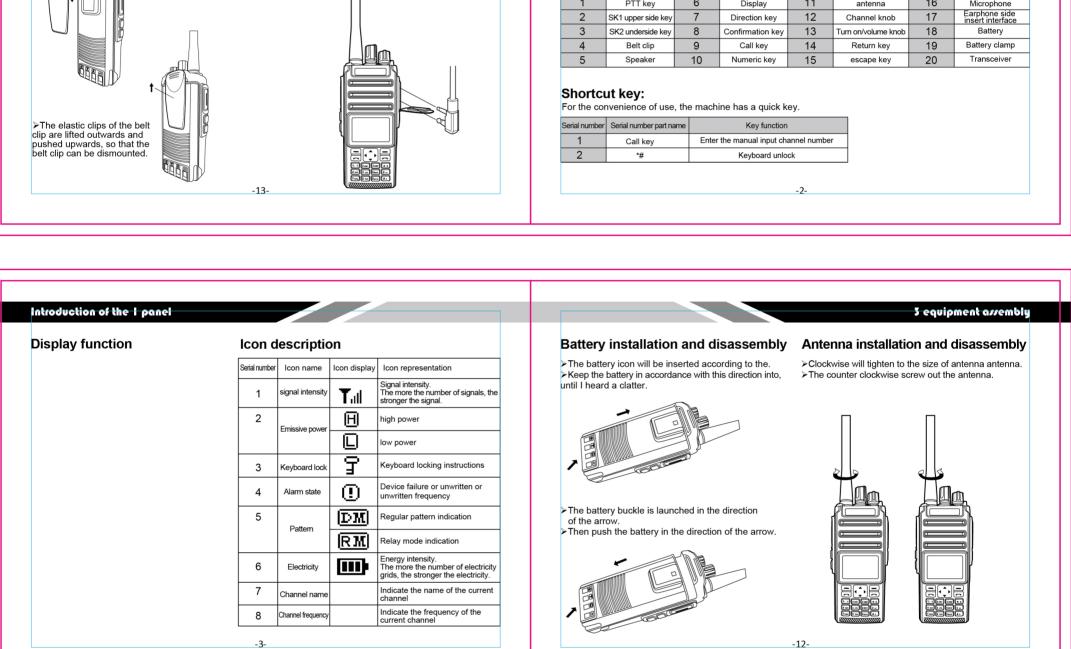
Equipment accessories

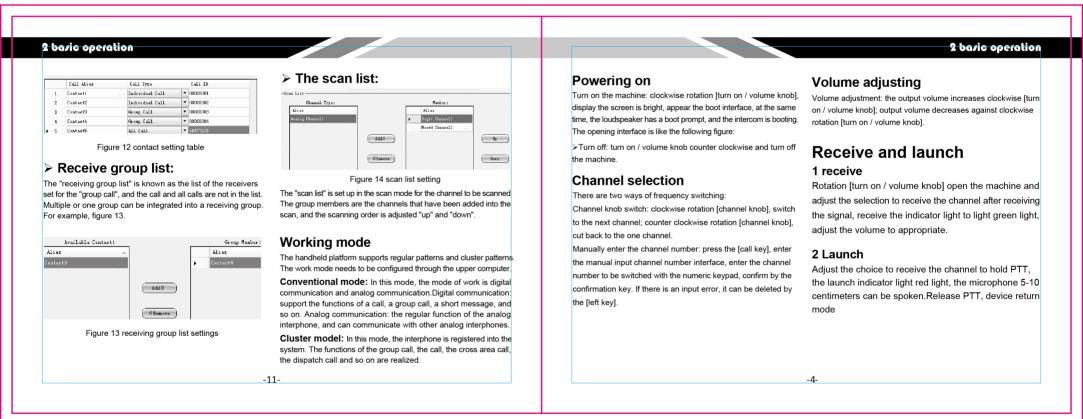
SERIAL NUMBER	PROJECT	NUMBER
1	Host	1
2	Battery	1
3	Antenna	1
4	Charger	1
5	Belt clamp	1
6	Instructions	1

Clean

- Please regularly use clean dry lint free or brush to wipe the dust on the surface of the product and the charging • pole.
- The key, control knob and cabinet of this product are • very dirty. Clean with neutral detergent and non-woven fabric. Don't use chemical agents such as detergent, alcohol, spray or petroleum preparation to avoid damage to the surface and shell. After cleaning, make sure that the product is completely dry, otherwise don't use it.

3 equipment arrembly								int	roduction	of the I panel	
➤The belt clip card in accordance with the slot position and push down until you hear a "click" sound installation is complete.	Side plug installation As follows, the right side cover is buckled from the upper end to reveal the headphone jack. When the headset is used, the headset two pins are inserted directly into the earphone hole. When using the write frequency line, the write frequency plug of 3.5mm is first inserted into the socket at the lower end, and then the machine is opened.							(19		
	Π	Se	erial number	Part name	Serial number	Part name	Serial number	Part name	Serial number	Part name	
			1	PTT key	6	Display	11	antenna	16	Microphone Earphone side	





2 basic operation

Menu description

≻Is any call: intercom any call set "allow" or "no" >The power of choice:walkie talkie transmit power selection "high The hybrid channel:

2 basic operation

The main menu is divided into 5 submenus: the correspondence, the short message,the area,the interphone set,the local information. Communication: including the contact list and manual dialing. >The contact list: users can be used in the contacts, contacts can be a person can also as a group, need to add a contact by radio programming software. When used, select a contact and

press the "PTT button" to call the user.

A new contact: you can add new contact information. The manual dialing: users can be the number of the person again after the completion of the input input, press the "PTT" button to

call the user. Short message:include new short message, state short message,

shortcut text, inbox, and hair box. ≻The new Short Message: the user can manually enter the Short

Message content, and then select the user to send. >The state news:users can be pre stored in the state Short Message

send walkie talkie to the user >Afast text:the user can send Short Message stored walkie talkie

to users. The inbox: Short Message received.

>The Outbox: Short Message sent.

 Area:different regions correspond to different channel configurations, and the channels in the region are stored in the device through

the user configuration software. Interphone setup: it is divided into arbitrary call, language setting, power selection, backlight setting, hint tone setting, keyboard lock

power" or "low power". >The language settings:the user can choose the "simplified Chinese

or "English" as the interface to display text. >The backlight settings:LCD backlight and keypad backlight, select

the "closed" and "open" and "off delay" backlight. >The tone set the tone: "talkie walkie talkie mute", "key tone" and "SMS tone" "call tone", select "open" or "off" this function.

>The keyboard lock: enable keyboard lock switch. • this machine information:

It shows "device type", "native number", "attribution group number" "Boot version number", "software version number", "last programming time", "data programming time", "hardware version number", "device serial number"

Introduction of work pattern

The handheld platform supports conventional mode and relay mode The work mode needs to be configured through the upper computer **Conventional mode:** in this mode, the mode of work is digital communication and analog communication. Digital communication: support the functions of a call, a group call, a short message, a short message and so on. Analog communication:you can communicate with a conventional interphone.

Relay mode: in this mode, the interphone can enter the double slotted call mode. In the relay mode, the voice and data are now the functions of the group call and the call.

he hybrid channel parameten Figure 10.A	er configuration interface is shown
Mixed Channel Alias:	Mixed Channell
Digit Available Channel:	Digit Channell
Analog Available Channel:	Analog Channel1
Mixed Channel Hang Time(s):	3
Mixed Channel Tranzmit Mode:	Digit Mode
Notes: Analog Channe	el must set subaudio!
Figure 10 parameter	setting of mixed channel

Digital services:

There are two sets of "basic parameters" and "contacts" under The basic parameter mainly refers to some parameter settings of

the machine. The native ID is the unique identification code of the customer in the communication group. It must be guaranteed that the ID of the other members in the communication group is different, otherwise the members of the same ID number cannot be interoperable For example, figure 11.

Own ID:	0000001	
Group Call Maintain Time(s):	3	\$
Individual Call Maintain Time(s):	3	:
DACSU Waiting Time(x):	1	\$
Resend Times of OACSU Failed:	3	\$
Message Call Waiting Time(s):	1	\$
Resend Time After Message Call Failed:	3	\$
Voice Delay(ms):	0	\$
Feature ID:	0	\$
Preload Voice Head Frame:	1	\$
Responce Lead Frame:	3	\$
Confirm Lead Frame:	3	

0000000

-Basic Setting -

-10-

-6

Figure 11 basic parameter configuration

The "contact" configuration is like Figure 12. You can set the "call alias", "call type", "call ID" and other items. A call and a group call can exist at the same time. The "full call" can only be set one, and the ID number is 16777215.

2 basic operation

By clicking on the corresponding digital channel, the right window can enter the parameter setting to the channel. For example, figure 8. Among them, the "emission color code for receiving and

transmitting to set"; "launch contact" refers to people call ID, "receiving list" refers to this as the transmitter receiver ID number, you can set up a number of.

Digital Channel Alia	r D rit Chargell		-	-
Toroder:			Encrypticat	0
			Basic Secret Key:	L Î
Siets	Sio:1			
TDEA Direct Hode:	0.77 💌			
Socali n. t	¥:0.4			
103:	12 Only:			
Inable Auto Scan:	1			
-	-			
π			-81	
7X Fraquency(M)x);	400. 3010000	Cabla W	KI Frequency (Miz) :	430.000000 🗘
TX Friquency(W)x): 7X CC:	1			430.000000 Ç
7X Fraquency(M)x);	•		KI Frequency (Miz) :	•
7X Fraquency(WFz): 7X CC:	1		KI Frequency (Miz) : KI CC:	1 V
IX Praquancy(WFx); IX CC: IX Contucts: IX Power Level;	i ÷ Contarti v R:gž v		RI Frequency(MM2): RI CC: RI Group Lists	1 V
7X Friquency(Wix): 7X CC: 7X Contects: 7X Power Level: 7X Authority:	1 * Cantaet1 * H: sk * TI Allow *		RI Frequency(MM2): RI CC: RI Group Lists	1 V
IX Fraquency(Wix): IX CC: IX Contents IX Contents IX Power Tevel: IX Authority: Jime-sut Forbidden(5	1 + Contact 1 + H.gb + TI Allow + No Limitation +		RI Frequency(MM2): RI CC: RI Group Lists	1 V
IX Fraquency(Wix): IX CC: IX Contents IX Contents IX Power Tevel: IX Authority: Jime-sut Forbidden(5	1 + Contact 1 + H.gb + TI Allow + No Limitation +		RI Frequency(MM2): RI CC: RI Group Lists	1 V
IX Praquancy(WFx); IX CC: IX Contucts: IX Power Level;	1 * Cantard 1 * H.gk * TT Allow * Station * : 0 \$		RI Frequency(MM2): RI CC: RI Group Lists	1 V

Figure 8 digital channel parameter setting

Analog channel:

Click the "analog channel" tab to enter. Click the right key in the blank and add the "add" option to add a new analog channel. Also, clicking on the corresponding analog channel can enter the paramete setting of the analog channel, as in Figure 9.

	Analog Ch	annel ———				
	Analog C	hannel :	Analog	Channeli		
	Analog B	andvidth:	25KHz			
	Tail Deg	pree:	180°	•		
	Scan Lis	ati (None			
	VOX:					
	Auto Sca					
	BX Only:					
			L.b.	x		
Frequency (Mir) :	400. 000000	÷ (=c.	py10)	KI Frequency (NHz)	400.000000	_
Voice Type:				KI Voice Type:	Voice Only	
Sub-audio:	63			KI Sub-audio:	63	[
Sub-audio Code:	017			KE Sub-audio Code:	017	- [
Power Level:	High			KN Squelch Level:	1	
Authority:	TX Allos					
.ne-out Forbidden Tine(s):	No Limitation					
.ne-out Recovery Time(s):	0	•				

Figure 9 analog channel parameter setting

The main functions of the conventional pattern

Iaunch:

≻To select the desired channel and ID ≻To press the "PTT" button, the light emission (red), into the microphone. Unlock the "PPT button" reception. Note:

>If the channel is in use, press the "PTT" button will send channel intercom busy, please wait for the idle channel after launch. $\succ \mbox{To}$ be on the receiving side the best sound quality, keep the 5-10 cm distance between mouth and microphone

• Group call (number) Open the directory, select the pre set number, press the PTT Single call (number)
Open the address book, select the pre - set number of single call,

press the PTT button to launch a single call. When a single call is received, the call number is displayed on the main interface of the interphone.

Send short messages (numbers)

Open the main menu, in the short message menu, select the new short message, the user can edit the content of the short message When the editor is finished, select the contact and send it out. Receive short messages (numbers)
When the interphone receives short messages, a portion of the

message is received on the standby menu, and you can read the short message in the inbox.

Parameter configuration

The parameters of the interphone need to be configured by the "write frequency software" of the host computer. Before entering the write frequency software, the write frequency line USB is connected to the computer, and the other end is inserted into the interphone headset socket.

2 basic operation

> Write frequency interface:

Begin Port	Language H	elp Tool	
Op en	Save	Read	Write
			₽. /:
	Basic Sett	ing	
	Zone		
	Digit Char	inel	
	Analog Cha	nnel	
	Mixed Cha	nnel	
	Digit Serv	/er	
	RX Group	List	
	Scan Lis	t	
	Scan Lis	t1	

Figure 1 write frequency software interface > Select the communication port: As in Figure 2, when the write frequency software is opened, the

"communication port" option is first clicked, and the corresponding COM port is selected.

2 basic operation			2 basic operation
Basic Setting Basic Setting Basic Setting Basic Info Set up: Read Fair Set up: Fair Set up:	Function key SK2 of the interphone can be configured by key 3" and "key 4". For example, figure 4. Zonel Setting Buttons Tone	Image: Section of the section of th	The channel in the "available channel" list is the channel configured in the "digital channel" and the "analog channel" selection. The "channel member" is the channel that the user chooses to use, and the number on the right of the "alias" corresponds to the channel number on the channel switch. The digital and analog channels in the "available channel" list are configured in the "digital channel" and "analog channel" options. Digital Channel and "analog channel" between the "digital channel" and "analog channel" options. Digital channel tab to enter. Click the right key in the blank, and there is a "add" option, and a new digital channel can be added by clicking. As shown in figure 7.
Figure 3 setting	Hint tone: Under the "hint" item, some hints of the interphone can be set, such as the known indicator light, the low electric alarm and so on. For example, figure 5.	Wired Channell	
	7-	Figure 6 area	-8- Figure 7 add a digital channel

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, 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.

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:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany 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, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).

• Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.

• When worn on the body, always place the radio in a REDELL's approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of REDELL's or other manufacturer's non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.

• Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.

•For a list of REDELL's approved accessories (see the user manual), or(The manufacturer should include the appropriate bracketed item(s) in the manual.)

• For a list of RDELL's approved accessories (see the user manual)