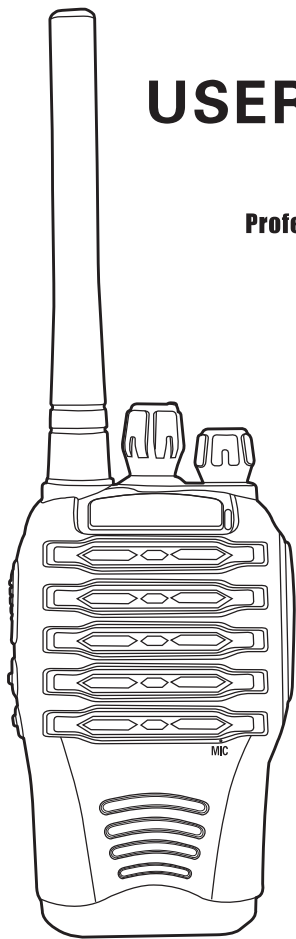


USER'S MANUAL

Professional handheld walkie-talkie



- ◆ Scan Function
- ◆ Output Power
- ◆ Busy Channel Lock Out



User's Manual

FM Transceiver

Dear user,

Welcome to use our handheld transceiver. We believe you will be pleasure to use it in our daily life and work.

This transceiver adopts advanced technology. we hope you will be satisfied its quality and functions. This is transceiver will bring to convenience. fast, reliable two-way communication

Notice:

- 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 slashed place, and also avoids to put it on unstable surface.
- If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then contact our company or local dealer.
- The repair job of this transceiver is in the charge of professionals & technical, self-disassembly is prohibited

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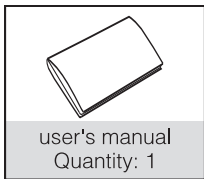
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—.Unpacking and Checking the Equipment

We recommend that you open the packing box before, please check carefully the main transceiver in the packing box and the supplied accessories. If any items missed or damaged during shipment, please contact the shipper or local dealer immediately.

Supplied Accessories



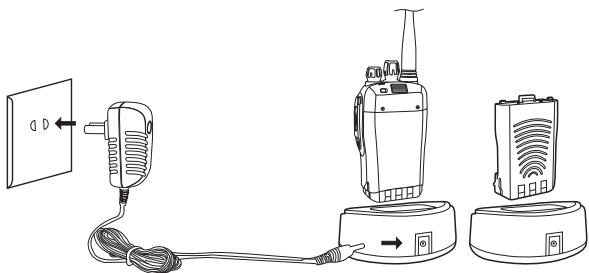
二. Getting Started

Battery Information

1. Please use our appointed battery to charge the radio. If you use other battery, there will happen explosion and the human body injury.
2. Charge the battery in the Temperature 0°C – 45°C .
3. Turn off the radio when charging.
4. Do not take the radio out from charger when charging.
5. The talking time get very short even though it will be full-charged under the normal condition, which means the life of battery will end soon, please replace the new one.
6. Do not charge the battery/radio when the battery/radio is wet, if do, please dry them with dry cloth, and then charge them, in order to avoid danger.

Alarm:

When key or ornamental chains and other electric metals contact 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 insulated container. Do not put it into metal container.



Charging Operation:

Charge the radio, please do it as follow:

1. Turn off the power of the two way radio;
2. The DC plug–pin of Power Adapter is connected to the DC female jack of the charger.
3. The AC plug–pin of Power Adapter is connected to the AC female jack of the charger.
4. The battery (or the radio with battery) are upright plugged into the Charger, and confirm battery normally contact to the terminals of charge.

Charging Indication:

The indication light get red when charge the battery, however it get green when it is full–charge.

Notice for Charging Battery:

1. The battery is not be charged when it leave from factory, please charge the battery before you use it. And please charge the battery for one or two times if it keep for a long time.
2. The capacity of the battery will reach the best state after you charge and discharge the battery or replace the battery when you find the capacity is very low.
3. The use time of the battery get shorter and shorter. What's more, you always keep it to charge it on the normal condition, which the life of battery will end soon, please contact the local distributor to purchase new one.

Antenna Information:

Stubby antenna will be very suitable for short distance calls, long and thin antenna will provide you with the best results, and when the radio in his body, will not let you produce discomfort. In the rainy day, and the trees, through distance will shorten, please prepare in advance, in order to avoid communication and safety produce inconvenience for you.

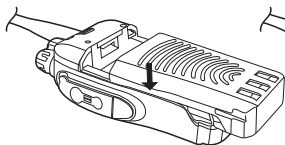
Installation and Connection:

Install/remove battery

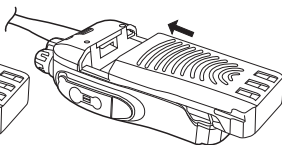
Install battery:the 2 flutes of the battery aim at orbit of aluminum frame of the equipment make sure the battery fully contact aluminum frame.(See pic.1)

And then push parallel along the orbit of aluminum frame,till they are buttoned well(See pic.2)

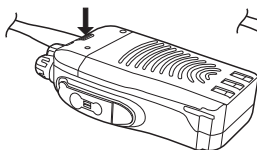
Remove Battery:Please turn off the two way radio if you want to remove the battery,and then press the battery button down,(see pic.3)Meanwhile,push the battery out of the two way radio(see pic.4)



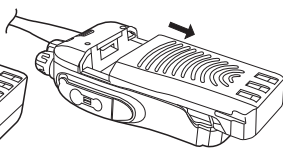
(See pic.1)



(See pic.2)



(See pic.3)



(See pic.4)

Installing/ Removing the antenna

Installing Antenna: 1. Take the antenna to aim at SMA connector of the radio.

2. And then screw down well along clockwise. (see pic.5)

Remove Antenna: Otherwise, screw it off anti-clockwise. (see pic.6)

Installing/ Removing the belt clip

Installing Belt Clip: The 2 eyelets of the belt clip is aimed at the 2 ones of Main

Radio's back, and then screw down with suited screws. (see pic.7)

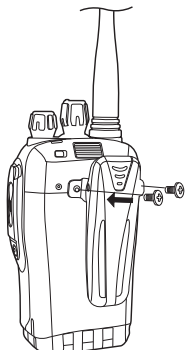
Remove Belt Clip: Directly screw it off. (see pic.8)



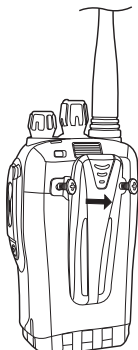
(see pic.5)



(see pic.6)



(see pic.7)



(see pic.8)

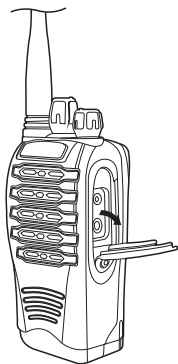
Installing Optional Speaker/Microphone

Installing Optional Speaker/Microphone

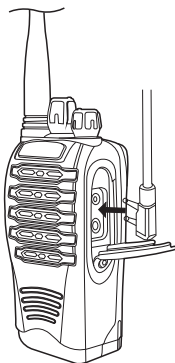
1. Unclose (not take down) cover for Earphone/Mic jack. (see pic.9)
2. Earphone/Microphone is plugged into the jack. (see pic.10)

Installing Optional String

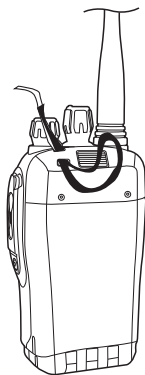
The string is passed through the eyelet of Radio's back. (see pic.11)



(see pic.9)

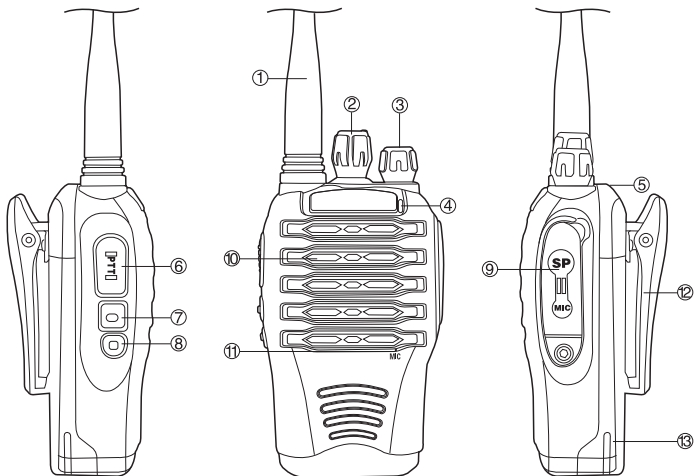


(see pic.10)



(see pic.11)

三、Your transceiver



① Antenna : Transmit/Receive signal

② Channel Knob : Choose the channel number you want after turn on your radio. Meanwhile it have sound of channel's number.

③Power Knob/Volume Knob:

Turn on the radio, and regulate the volume of sound.

④Indication Light(LED):

It is red when transmitting, green when receiving. The red light will flash on and off when the capacity of battery is very less the green light will flash on and off when scanning.

⑤Eyelet for string

⑥PTT Key:

Press the key when transmitting. Otherwise, releases the key when receiving.

⑦MONI Key:

Press after listening to choose the channel

⑧SCAN:Press one:

open, press again: off

⑨MIC-SP jack/Data Port:

Connect earphone or programming lines

⑩Speaker:Sound output

⑪Microphone:Sound input

⑫Belt Clip:It is very convenience for wearing belt clip to radio.

⑬Li-ion battery

四. Basic operation

1. Turn on/off

Rotate the power/volume knob clockwise to turn on the transceiver

Rotate the power/volume knob anticlockwise to turn on the transceiver

2. Adjust volume

Rotate the power/volume knob to adjust the volume

Clockwise rotation will rise the volume and anticlockwise rotation will reduce the volume

More accurate adjustment is needed while communication

Note: you can press MONI key to monitor the background noise while adjusting volume

3. Channel select

Rotate channel selection knob to select needed

channel. Clockwise rotation will rise the channel number and anticlockwise rotation will reduce the channel number.

4. Adjust squelch level

Squelch function is used to let speaker quiet when no any signal. when squelch is on, you can hear background noise from speaker. when squelch is off, no any noise can be heard. the selected squelch level will decide where to turn on or off Squelch function. if the selected squelch level is too high, then weaker signal can not be heard; and if the selected squelch level is too low, then signal will appear with the background noise. (PC Programmable)

5. Transmit(call)

(1)according to different settings of monitor function, press [MONI] key to monitor loudspeaker.Make sure no any transceiver is transmitting on the select channel.

(2)press [PTT]key ,and speake to microphone.

①keep microphone away from your mouth about 3–4 cm, and speak in your usual tone,so that the receive can get best tone quality,

②Press [PTT]key,LED indicator displays red.

(3).Relese[PTT] key and start to receive

6. Receive

When the selected channel is being called,LED indicator dispalys green,you can receive the call

If the transmitting signal is weaker,and also high squelchlevel is set,then maybe you can not recieve the call.

Maybe your local dealer gas set CTCSS/DCS signalling on your transceiver.when this programble channels has been selected,only transceiver with same signalling can be received.Other transmitting can not be received.

五.SCAN

Press [SCAN] key shortly then will be into to scan working Status. If within 5 seconds do not receive signal or do not press [MONI]key and [PTT] key,it will continue scanning.Press [PTT] key, if still in scan state press scan start frequency to transmit channel established.When scanning stops, press the current channel launch(PC Programble)

六.CTCSS/DCS

Maybe your local dealer gas set CTCSS/DCS signalling on your transceiver.when this programble channels has been selected,only transceiver with same signalling can be received.Other transmitting can not be received.

This function can ignore unneeded call,though you have a private route when you use CTCSS/DCS,If other walkie talkie set the same code with your walkie talkie,the radio can still hear your call

七.Auxiliary Function

1.Busy channel lock out

use this function ,can prevent interrupting the radio in the same channel

This function are turn off when out of factory,if chosen channel are turn on by software or by local dealer,when the cahnnel are using by other radio,press PTT key tradio can not transmit but sound a “drop” ,to stop the “drop” ,release ptt key.when this channel are free you can press ptt to transmit

2 .battery voltage

Connect the radio to Power supply, will check radio's battery voltage Automatic, when the voltage is low,LED indicator diaplays red,you can use radio for a while,but overtransmitting will make the battery.when the battery voltage are very low,you will hear erron waring sound,transmit are stopped.this time please charge the battery or change battery.

3.Monitor

You can use [MONI]key to monitor weak signal when normally operation

4.CTCSS Option

Open Programming Software,enter the frequency(if don't enter frequency,the click doesn't work)click CTCSS Below the CTCSS/DCS Code and CTCSS/DCS ,choose CTCSS,And use software to write CTCSS into walkie talkie

5 .DCS option

Open Programming Software,enter the frequency(if don't enter frequency,the click doesn't work)click DCS Below the CTCSS/DCS Code and CTCSS/DCS ,choose DCS And use Programming Software to write DCS into walkie talkie

6 .Time out timer (TOT)

TOT function is used to prevent a channel have been used for a long time.

If the transmitting time exceeds the programmable time,transceiver will stop transmitting,and second alarm sound,Release[PTT] key,,transceiver will back to receiving mode automatically in 5s

7.Alarm function

The radio have local alarm function (local alarm function only transmit the alarm signal from radio horn let other nearby people know You have an emergency) this function must opened by programming and press [scan] key long time to open this function

8.High & low power change function

This radio have High & low power change function ,convent for you choose suitable transmit power to realize Prolong the use time of the battery ,this function can realize by computer programming

When transmitting low power ,red ,green light at the same time ,transmitting the high power the red light

Note: Under the premise that the distance and the call quality are not affected, please use low power to transmit can Prolong the use time of the battery (after Single flush) can Prolong the battery life

9.Scan add and delete function

This radio have scan add and delete function ,convent for you want to monitor channel Talk situation ,this function can realize by computer programming ,click “scan add “it have corresponding channel add or delete

Note: corresponding channel scan “add” means When entering a scan channel ,radio will scan that channel ,scan ” delete” means When entering a scan channel radio don't scan that channel

10.Voice function turn on ,turn off ,Chinese /English change

This radio have voice function ,convent for you use it night or Dark place quickly know The current channel for the radio you use ,this function can realize by computer programming

11, programming encryption function

This radio have , programming encryption function ,can Prevent your frequency and CTCSS Not known by others ,and also can protect you and your client information ,detail set can use programming to set

12, Optional signaling

User can set every channel whether use optional signaling by programming

1,PTT ID: when channel set PTT ID ,than press or release PTT key both can transmit ID code

2,this radio can set DTMF A,B,C,D * or # for different group by programming

八 . CTCSS frequency(50 groups)

1	67.0	12	94.7	23	141.3	34	179.9	45	225.7
2	69.3	13	100.0	24	146.2	35	183.5	46	229.1
3	71.9	14	103.5	25	151.4	36	186.2	47	233.6
4	74.4	15	107.2	26	156.7	37	189.9	48	241.8
5	77.0	16	110.9	27	159.8	38	192.8	49	250.3
6	79.7	17	114.8	28	162.2	39	196.6	50	254.1
7	82.5	18	118.8	29	165.5	40	199.5		
8	85.4	19	123.0	30	167.9	41	203.5		
9	88.5	20	127.3	31	171.3	42	206.5		
10	91.5	21	131.8	32	173.8	43	210.7		
11	94.8	22	136.5	33	177.3	44	218.1		

九 . DCS CODE(105 code)

1	023	19	116	37	225	55	325	73	452	91	627
2	025	20	122	38	226	56	331	74	454	92	631
3	026	21	125	39	243	57	332	75	455	93	632
4	031	22	131	40	244	58	343	76	462	94	645
5	032	23	132	41	245	59	346	77	464	95	654
6	036	24	134	42	246	60	351	78	465	96	662
7	043	25	143	43	251	61	356	79	466	97	664
8	047	26	145	44	252	62	364	80	503	98	703
9	051	27	152	45	255	63	365	81	506	99	712
10	053	28	155	46	261	64	371	82	516	100	723
11	054	29	156	47	263	65	411	83	523	101	731
12	065	30	162	48	265	66	412	84	526	102	732
13	071	31	165	49	266	67	413	85	532	103	734
14	072	32	172	50	271	68	423	86	546	104	743
15	073	33	174	51	274	69	431	87	565	105	754
16	074	34	205	52	306	70	432	88	606		
17	114	35	212	53	311	71	445	89	612		
18	115	36	223	54	315	72	446	90	624		

†.Technical specification

	VHF/UHF
Frequency range	136–174MHz / 400–480MHz
Memory channel	16
Modulation distortion	<5%
Frequency sensitivity	± 2.5ppm
Max frequency deviation	≤5KHz/≤2.5KHz
Stray radiation	≤7uW
Modulation mode	16KØF3E / 11KØF3E
Sensitivity	≤0.25uV / ≤0.3uV
Sigalto noise ratio	≤0.2uV / ≤0.25uV
Adjacent channel selection	≥65dB
Intermodulation	≥55dB
Spurious signal response	≥60dB
Current	≤1.6A
Rated voltage	7.4V DC



RECYCLABLE PACKAGING