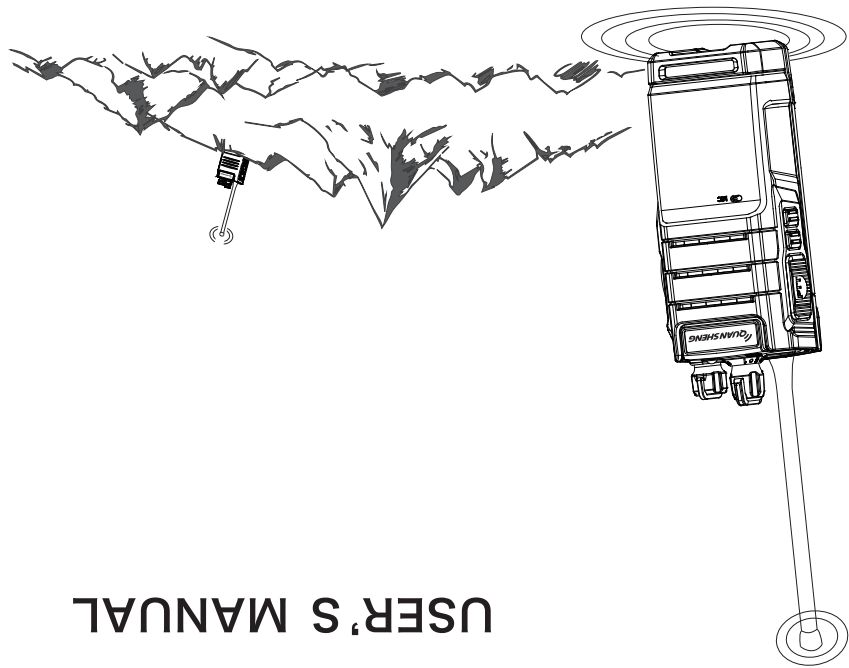


USER'S MANUAL



使用说明书



福建省信息化局(省无线电管理办公室)友情提醒:

购买、使用本设备属于设置使用无线电台(站)的行为,必须依法办理设台审批手续,领取无线电台执照。在使用设备过程中,应当按照电台执照核定的项目工作。擅自设置使用无线电台(站)、干扰无线电业务、不按核定项目工作以及其他违反无线电管理法规的行为,由无线电管理机构给予行政处罚。严重的无线电违法行为,还可能触犯《刑法》第288条或《治安管理处罚法》第28条,将被处以三年以下有期徒刑、拘役或者管制,并处或者单处罚金的刑事处罚或者由公安机关处以拘留的行政处罚。

鸣谢!

感谢您惠购 **QUANSHENG** 品牌TG系列对讲机.这部对讲机设计新颖,功能强大,性能稳定且易于操作,我们深信本产品的质量和功能将会使您感到满意.

功能特点

- 256个信道 (16信道*16组)
- 输出功率 10W
- 采用国际最新聚合物锂离子电池
- 外壳采用进口PC材料, 坚固耐磨
- 超长待机350小时
- 数字/模拟亚音频
- 语音报号(中英文)
- 高/低功率选择
- VOX声控发射功能
- 调整静噪等级
- 宽/窄带选择
- 手电功能
- 电脑编程
- 信道扫描
- 发射定时
- 低电报警

使用前注意事项

- 请将对讲机及其所有部件和配件放在小孩子接触不到的地方。
- 请不要试图拆开对讲机，非专业人员对对讲机的处理可能会造成损坏。
- 请使用本公司配套的电池组及充电器，以免损坏对讲机。
- 请使用本公司配套的天线，以免缩短通讯距离。
- 请不要将对讲机长时间暴露于阳光下，或放在过热的地方。
- 请不要将对讲机放在有灰尘或潮湿的地方。
- 请不要用烈性化学制品，清洗剂或强洗剂清洗对讲机。
- 未安装天线时，请不要发射。
- 如果发现对讲机发出异味或烟雾，请立即关断对讲机的电源，并且从对讲机取下电池组，并与泉盛经销商联络。

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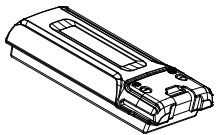
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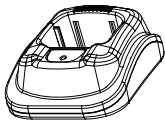
整机配件

请小心从包装箱内取出对讲机。我们建议您在废弃包装材料之前确认一下箱内是否有下列物品。

配件名称	锂电池	座充	火牛	天线	背夹	说明书
数量	1	1	1	1	1	1



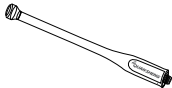
锂电池



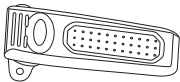
座充



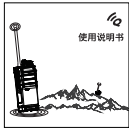
火牛



天线



背夹



说明书

充电须知

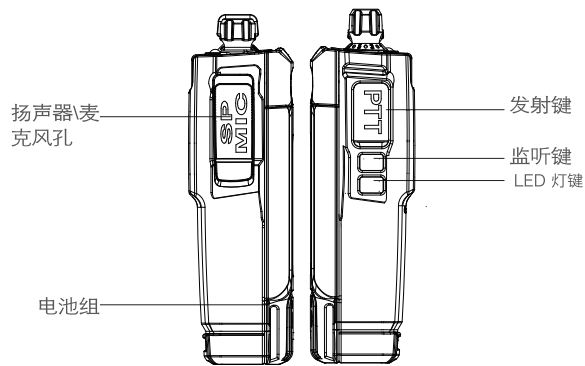
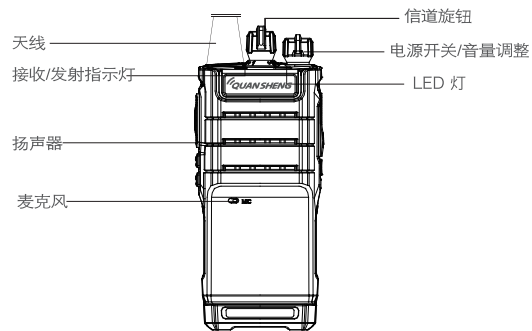
对Li-ion电池组充电

- 电池在出厂时未充电,请在使用前先进行充电.
- 在购买后或长期存放(两个月以上)后第一次对电池充电不能使电池达到它的通常使用容量.应反复充/放电两、三次后,电池容量才能达到正常的使用容量.

注意事项

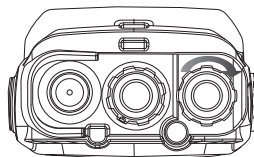
【警告】如果电池已经完全充电,请勿再行充电,否则,电池的寿命会缩短或受损.当电池充电饱和时,请将它从电池充电器上取下.请勿短路电池端子或将电池丢弃于火中.切勿擅自拆卸电池的外壳.

- 在充电前,请将装有Li-ion电池的对讲机电源关闭.若使用正在充电的对讲机,则会妨碍电池的正常充电.
- 在完全正确的充电后,使用时间不增加,则表示电池的寿命已到,请更换新电池.
- 随带的电池的平均使用时间为18个小时.平均使用时间是按以5%发射时间、5%接收时间和90%待命时间进行计算的.

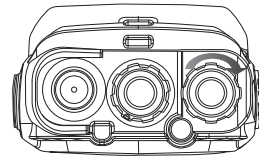


电源开关/音量调整

- 顺时针旋转该旋钮并听到一声轻响后,打开对讲机电源,语音提示所处信道。(如图P-1)
- 顺时针旋转该旋钮时,可以从小到大调节音量。(如图P-2)



P-1

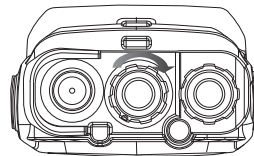


P-2

信道旋钮

- 转动信道(Channel)选择您要使用的频道。(如图P-3)

当您接收到适当的信号时,扬声器会传出声音。



P-3

电脑编程

先用电脑把对讲机内频率读出来，再设置信道编程用电脑操作，可设置以下功能
发射定时，静噪等级，语音报号，模拟亚音频/数字亚音频，宽/窄带选择，高/低功率选择，声控发射功能。

VOX声控发射功能

此功能开启时，当对讲机接收到信号时，系统检测到您对麦克风说话，将自动切换到发射模式，不用手动操作，此功能更方便耳机用户。

1. 写频软件设置：专用写频软件将对讲机频率读出，点击“编辑”选择“可选功能”在功能列表中选择“VOX 开启或关闭”，“VOX-Delay”选择声控开启发射延迟时间；“VOX-Grade”选择声控等级，设有 1-10 个等级，1 为最高级别，10 为最低级别。“Key-VOX”选择开启 / 关闭，当选择开启时可通过对讲机按键快速设置开启 / 关闭 VOX 功能。VOX 数据设置完成后，写入对讲机。

2. 对讲机 VOX 快捷键开启或关闭，长按“LED 灯键”时，提示“滴滴”两声，声控开启，再按“LED 灯键”提示“滴”一声，声控关闭。

【注意】1. 声控“发射延迟时间”和“声控等级”只能在写频软件中设置。

256信道组别切换（16信道X16组）

- 1. 此功能可设置 16 信道组别，共 256 信道号，分为 16 信道 X16 组。开机时先报组别，后报信道号。
- 2. 待机状态，同时按“监听键”和“LED 灯键”两秒，报当前组别号并进入组别选择模式；短按“监听键”，组别增加并报当前组别号。短按“LED 灯键”，组别减退并报当前组别号；连续按“监听键”或“LED 灯键”，快速选择所需组别并报当前组别号。

信道扫描(SCAN)

用信道旋钮选到第 16 信道，按住“监听键”开机，语音提示“扫描”此时本机依次从 1 至 16 信道进行信道扫描工作；关闭对讲机，退出信道扫描。

【注意】第 16 信道一定要有频率，不能有空频。

双守候

双守候是指 1~15 信道，每个信道都可以与第 16 信道的频率相互接收。即可以收到本信道的频率，也可收到第 16 信道的频率。

操作如下：

按住“监听键”开机，语音提示“扫描”用信道旋钮选到要设双守候信道，该信道接收频率与第 16 信道接收频率，轮换守候。没有收到第 16 信道频率信号时，按“发射键”只能发射该信道发射频率。只有收到第 16 信道信号，便可发射第 16 信道发射频率，与第 16 信道通话。信号消失后 5 秒，恢复双守候。关闭对讲机，退出双守候。

发射定时

防止任何呼叫对方占用时间过长，如果连接发射超过设定的编程时间，对讲机会停止发射并响起警告声。

语音提示(中英文)

语音报号有中、英两种，可以信道编程中完成语言种类设置。旋动信道旋钮，选择所需频道，有语音提示，共16信道。

【注意】当频点只写 16 信道时，语音报号为 1-16 常规报号。当频点超出 16 个信道时，语音报号则会报出当前所在组别及信道。如：1-1、2-1。

宽/窄带选择

频率间隔>25KHz，选择宽带，频率间隔<25KHz，选择窄带。

低电量告警

电量不足时，语音提示“请充电”。

调整静噪等级

调整静噪等级，是使接收处于较好的状态，又没有噪音干扰。

模拟亚音频和数字亚音频

模拟亚音频/数字亚音频设置可以避免相同设置的信号干扰。模拟亚音频50组
数字亚音频 208组。

高低功率选择

发射功率在信道编程时可以设置，可设高功率或低功率。

照明灯

按下“照明灯开关键”时，照明灯亮，再按下时，照明灯关闭。

静噪

按下“监听键”噪音打开，再次按下“监听键”噪音关闭。

CTCSS/亚音频表									
01	67.0	13	100.0	25	151.4	37	189.9	49	250.3
02	69.3	14	103.5	26	156.7	38	192.8	50	254.1
03	71.9	15	107.2	27	159.8	39	196.6		
04	74.4	16	110.9	28	162.2	40	199.5		
05	77.0	17	114.8	29	165.5	41	203.5		
06	79.7	18	118.8	30	167.9	42	206.5		
07	82.5	19	123.0	31	171.3	43	210.7		
08	85.4	20	127.3	32	173.8	44	218.1		
09	88.5	21	131.8	33	177.3	45	225.7		
10	91.5	22	136.5	34	179.9	46	229.1		
11	94.8	23	141.3	35	183.6	47	233.6		
12	97.4	24	146.2	36	186.2	48	241.8		

DCS/亚音数码表					
1	D023N	22	D131N	43	D251N
2	D025N	23	D132N	44	D252N
3	D026N	24	D134N	45	D255N
4	D031N	25	D143N	46	D261N
5	D032N	26	D145N	47	D263N
6	D036N	27	D152N	48	D265N
7	D043N	28	D155N	49	D266N
8	D047N	29	D156N	50	D271N
9	D051N	30	D162N	51	D274N
10	D053N	31	D165N	52	D306N
11	D054N	32	D172N	53	D311N
12	D065N	33	D174N	54	D315N
13	D071N	34	D205N	55	D325N
14	D072N	35	D212N	56	D331N
15	D073N	36	D223N	57	D332N
16	D074N	37	D225N	58	D343N
17	D114N	38	D226N	59	D346N
18	D115N	39	D243N	60	D351N
19	D116N	40	D244N	61	D356N
20	D122N	41	D245N	62	D364N
21	D125N	42	D246N	63	D365N
				64	D371N
				65	D411N
				66	D412N
				67	D413N
				68	D423N
				69	D431N
				70	D432N
				71	D445N
				72	D446N
				73	D452N
				74	D454N
				75	D455N
				76	D462N
				77	D464N
				78	D465N
				79	D466N
				80	D503N
				81	D506N
				82	D516N
				83	D523N
				84	D526N
				85	D532N
				86	D546N
				87	D565N
				88	D606N
				89	D612N
				90	D624N
				91	D627N
				92	D631N
				93	D632N
				94	D654N
				95	D662N
				96	D664N
				97	D703N
				98	D712N
				99	D723N
				100	D731N
				101	D732N
				102	D734N
				103	D743N
				104	D754N
				105	D023I

DCS/亚音数码表					
106	D025I	127	D132I	148	D252I
107	D026I	128	D134I	149	D255I
108	D031I	129	D143I	150	D261I
109	D032I	130	D145I	151	D263I
110	D036I	131	D152I	152	D265I
111	D043I	132	D155I	153	D266I
112	D047I	133	D156I	154	D271I
113	D051I	134	D162I	155	D274I
114	D053I	135	D165I	156	D306I
115	D054I	136	D172I	157	D311I
116	D065I	137	D174I	158	D315I
117	D071I	138	D205I	159	D325I
118	D072I	139	D212I	160	D331I
119	D073I	140	D223I	161	D332I
120	D074I	141	D225I	162	D343I
121	D114I	142	D226I	163	D346I
122	D115I	143	D243I	164	D351I
123	D116I	144	D244I	165	D356I
124	D122I	145	D245I	166	D364I
125	D125I	146	D246I	167	D365I
126	D131I	147	D251I	168	D371I
				169	D411I
				170	D412I
				171	D413I
				172	D423I
				173	D431I
				174	D432I
				175	D445I
				176	D446I
				177	D452I
				178	D454I
				179	D455I
				180	D462I
				181	D464I
				182	D465I
				183	D466I
				184	D503I
				185	D506I
				186	D516I
				187	D523I
				188	D526I
				189	D532I
				190	D546I
				191	D565I
				192	D606I
				193	D612I
				194	D624I
				195	D627I
				196	D631I
				197	D632I
				198	D654I
				199	D662I
				200	D664I
				201	D703I
				202	D712I
				203	D723I
				204	D731I
				205	D732I
				206	D734I
				207	D743I
				208	D754I

技术指标

一般规格	
频率范围	400,000-470,000MHz
额定电压	DC7.2V(可充式锂电池)
记忆频道	256个信道（16组x16信道）
天线阻抗	50Ω
工作方式	同频单工或异频单工
体积	136mmX59mmX40.5mm
发射部分	
输出功率	10w
调制方式(宽带,窄带)	16KΦ F3E,11KΦ F3E
最大频偏(宽带,窄带)	<5K/<2.5KHz
杂波辐射	<7uW
预加重特性	6dB/每倍频递增
发射电流	≤2.4A
亚音频/数字亚音频频偏(宽带,窄带)	0.75KHz±50Hz,0.37KHz±30Hz
调制灵敏度	12mV
调制失真	≤5%
接收部分	
参考灵敏度	-122dBm(12dB SINAD)
调制接收带宽	5KHz
音频功率	≥0.5W
音频失真	<10%
阻塞	≥85dB
互调(宽带,窄带)	≥60dB ≥55dB
邻道选择性(宽带,窄带)	≥65dB ≥60dB
杂波抑制	≥65dB
【注意】规格如因技术改进而有变动，恕不另行通知。	



保修卡

机 型	购买日期
系列号	
销售商	联系电话
用户名	联系电话
地 址	邮 编

保修说明:

1. 本保修卡由顾客保存作为保修凭证，遗失不补。
2. 本卡必须由销售点盖章及填写日期方能生效。
3. 本卡不得涂改，请确认保修卡系列号与购买机器在号码相符，否则无效。
4. 在正常使用情况下，产品主机 12 个月以内予以保修，电池、充电器 6 个月内予以保修，天线、背夹、车充、借电器等配件属于易耗品，不在保修范围内。
5. 用户可选下列途径得维修服务：
 - a. 在原购物处理
 - b. 我司在当地特约维修点。

FEATURES

- 256 channels (16 channels * 16 groups)
- Wide/Narrow bandwidth
- Adopting newest polymer Li-ion battery
- Adopting imported PC material in case to make it solid&abradable
- 350 hours' super-long waiting time
- Voice prompt (Chinese/English)
- High/Low power adjust
- VOX
- CTCSS/DCS
- Squelch level adjust
- Jacklight
- PC programmable
- Channel scan
- Time-out-timer
- Low power alarm
- Output power: 10W

PRECAUTIONS BEFORE USING

Please read the User's Manual before using . It gives you important information about how to operate the portable radio.

Please put the radio and accessories where the children can not touch.

Maintenance can only be performed by professional technicians.

Please use the standard battery pack and charger in order not to destroy the radio.

Please use the standard antenna , in order not to shorten the distance.

Do not expose the radio to sunlight for a long period of time , nor put it near the heat , nor use it in a high temperature environment.

Do not put it in extreme dust nor wet or on unsteady surfaces.

Keep it dry . (Rain or moisture will erode the electronic board) .

Do not transmit when the antenna is not installed .

If you find bad smell or smog , please turn off the radio immediately . And take the battery off the radio , then contact with QS agent.



Thank you for purchasing this QS Radio.

We believe this easy-to-use radio will provide reliable and dependable communication.

QS Radio incorporates the latest advanced technology.

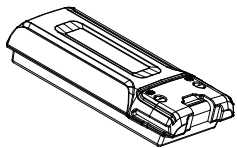
As a result, we know that you will be pleased with the quality and features of this product.

CONTENTS

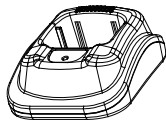
SUPPLIED ACCESSORIES-----	02
READY TO WORK-----	03
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SUPPLIED ACCESSORIES

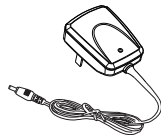
Carefully unpack the portable radio. We suggest that you check the following items before you throw away the packing materials.



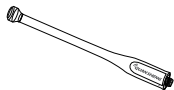
Li-ion Battery



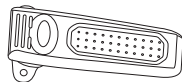
Charger



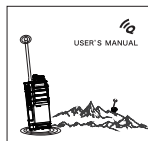
Adapter



Antenna



Belt Clip



User' s Manual

CHARGING NOTES (1)

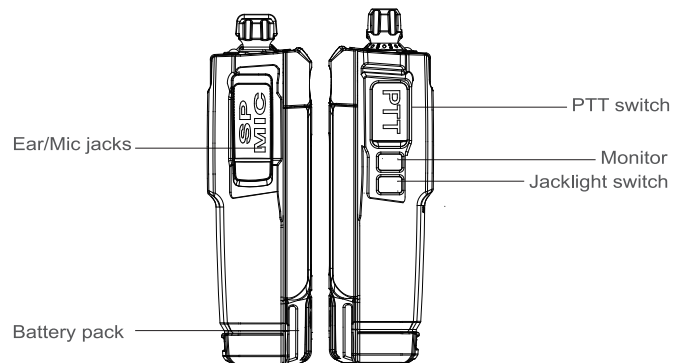
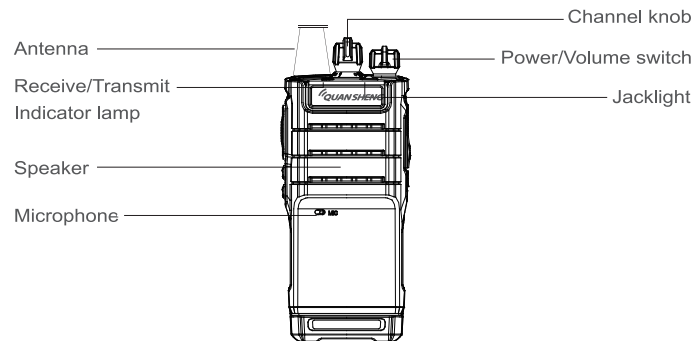
- Battery packs are not charged when they are shipped. Charge them before use.
- Initially charging the battery pack after purchase or extended storage (longer than 2 months) will not bring the battery pack to its greatest capacity or its normal charge, which can be done only after repeatedly charging and discharging for two or three times.

【 CAUTIONS 】

After the battery is charged to its highest capacity, don't charge anymore. Otherwise it will effect the life of the battery , please take it from the charger.

Do not short-circuit the battery terminals or throw the battery into fire.
Never attempt to remove the casing from the battery pack.

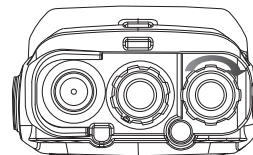
1. Please turn the power off before charging . It will effect the battery life when charging the power-on radio.
2. After the battery is charged to its highest capacity , and then use the radio . If the radio still shows low power , please change a new battery
3. The average usage time of battery pack is 18 hours.
Average usage time is 5% for transmitting, 5% for receiving
and 90% for standby.



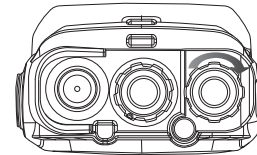
BASIC OPERATION

Turn the Power/Volume knob clockwise to turn the power on, when you turn it on, it will beep and voice remind the current channel. (As P-1)

Turn Power/Volume knob counter-clockwise to turn up and down the volume. (As P-2)



P-1

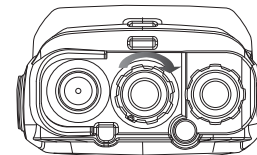


P-2

Channel Knob

Turn the channel knob to choose the desired channel . (As P-3)

When you receive signal, the speaker will sound.



P-3

PC programmable

Please use QS standard programmable software. You can set the following features through the software: Time-out-timer, squelch level, Voice prompt, CTCSS/DCS, Wide/narrow bandwidth, High/Low power adjust/VOX

VOX

Use this function, when radio receives signal, the system will detect the voice and automatically switch to transmitting mode. Without manual operation, this function is more convenient for the headset users.

1. Programming software Settings: Use specialized software to read the radio frequency. Click "Edit" to choose "optional features", select function VOX on or off. "VOX-Delay" can choose the VOX transmitting delay time; "VOX-Grade" can choose the rating of VOX. From 1 to 10, level 1 is the highest and level 10 is the lowest. "Key-VOX" Choose on/off. It can set the turning on/off of the VOX function using shortcut key. When finish the VOX setting, write the radio.

2. VOX shortcuts on or off, long press the "LED" key, voice prompt "beep" two sound, VOX on. Then press "LED" key again, voice prompt "beep" one sound, VOX off.

[Notice] "VOX-Delay" and "VOX-Grade" can only be set by the programming software.

256 channels group switch (16 channels X 16 groups)

1. This function can set 16 channel groups, total 256 channel numbers, that is 16 channels X 16 groups. Voice prompt first from group number, then channel number.

2. Standby mode, press "monitor" key and "LED" key for 2 seconds at the same time, voice prompt the current group number and enter the group selection mode. Short press "monitor" key, group increase and voice prompt the current group number. Short press "LED" key, group decrease and voice prompt the current group number. Continuously press the "monitor" key and "LED" key to select the wanted group and voice prompt the current group number.

Channel Scan

Rotate the channel knob to channel 16, press Monitor key to turn on the radio, you will hear the voice prompt of "Scan". It will scan from channel 1 to channel 16. Turn off the radio to exit.

[NOTE] There must be frequency in channel 16.

Dual-watch Operation

"Dual-watch" between the current working channel and channel 16. The current working channel can receive its own frequency as well as the frequency of channel 16.

[NOTE] There must be frequency in channel 16.

The operation steps are as follows: Press Monitor key to turn on the radio, and you will hear the voice prompt of "scan". Rotate the channel knob to the channel you want to set, the channel will be in "dual-watch" with channel 16. It could transmit only the frequency of the current channel by pressing PTT without receiving the signal of channel 16, and it could communicate with the 16th channel only after receiving the signal of channel 16.

Voice Prompt (Chinese or English)

You could set Chinese or English as the voice prompt by programming software.

[Notice] When the frequency only programmed 16 channels, the voice prompt is conventional 1-16. When the frequency programmed more than 16 channels, the voice prompt will report current group and channel, such as 1-1, 2-1.

Wide/Narrow Bandwidth

Frequency space > 25KHz, it is Wide bandwidth.

Frequency space < 25KHz, it is Narrow bandwidth.

CTCSS/DCS

Set up workgroups/users with unique DCS/CTCSS to prevent unwanted conversations in the same frequency.

CTCSS:50 groups DCS:105 groups(N groups).

Time-Out-Timer(TOT)

The feature allows more efficient use of channels by limiting the time of each transmission.

Low Power Alarm

Audible tone and visual display tell you when the battery is running down.

Squelch Level Adjust

It helps to minimize interference from undesired weak signals and helps weak to beheard.

High/Low Power Adjust

The high/low output power can be adjusted on channel program.

Jacklight

Press” Jacklight Switch” ,the Jacklight is ON. Press again,the Jacklight is OFF.

Squelch

Press MON key, the squelch will be turned on, press MON key again, the squelch will be turn off.

CTCSS

01	67.0	13	100.0	25	151.4	37	189.9	49	250.3
02	69.3	14	103.5	26	156.7	38	192.8	50	254.1
03	71.9	15	107.2	27	159.8	39	196.6		
04	74.4	16	110.9	28	162.2	40	199.5		
05	77.0	17	114.8	29	165.5	41	203.5		
06	79.7	18	118.8	30	167.9	42	206.5		
07	82.5	19	123.0	31	171.3	43	210.7		
08	85.4	20	127.3	32	173.8	44	218.1		
09	88.5	21	131.8	33	177.3	45	225.7		
10	91.5	22	136.5	34	179.9	46	229.1		
11	94.8	23	141.3	35	183.6	47	233.6		
12	97.4	24	146.2	36	186.2	48	241.8		

DCS					
1	D023N	22	D131N	43	D251N
2	D025N	23	D132N	44	D252N
3	D026N	24	D134N	45	D255N
4	D031N	25	D143N	46	D261N
5	D032N	26	D145N	47	D263N
6	D036N	27	D152N	48	D265N
7	D043N	28	D155N	49	D266N
8	D047N	29	D156N	50	D271N
9	D051N	30	D162N	51	D274N
10	D053N	31	D165N	52	D306N
11	D054N	32	D172N	53	D311N
12	D065N	33	D174N	54	D315N
13	D071N	34	D205N	55	D325N
14	D072N	35	D212N	56	D331N
15	D073N	36	D223N	57	D332N
16	D074N	37	D225N	58	D343N
17	D114N	38	D226N	59	D346N
18	D115N	39	D243N	60	D351N
19	D116N	40	D244N	61	D356N
20	D122N	41	D245N	62	D364N
21	D125N	42	D246N	63	D365N

DCS					
106	D025I	127	D132I	148	D252I
107	D026I	128	D134I	149	D255I
108	D031I	129	D143I	150	D261I
109	D032I	130	D145I	151	D263I
110	D036I	131	D152I	152	D265I
111	D043I	132	D155I	153	D266I
112	D047I	133	D156I	154	D271I
113	D051I	134	D162I	155	D274I
114	D053I	135	D165I	156	D306I
115	D054I	136	D172I	157	D311I
116	D065I	137	D174I	158	D315I
117	D071I	138	D205I	159	D325I
118	D072I	139	D212I	160	D331I
119	D073I	140	D223I	161	D332I
120	D074I	141	D225I	162	D343I
121	D114I	142	D226I	163	D346I
122	D115I	143	D243I	164	D351I
123	D116I	144	D244I	165	D356I
124	D122I	145	D245I	166	D364I
125	D125I	146	D246I	167	D365I
126	D131I	147	D251I	168	D371I

SPECIFICATIONS

GENERAL

Frequency range	400.000-470.000MHz
Rated voltage	DC 7.2V (Rechargeable Li-ion battery)
Memory channel	256 channels (16 channels * 16 groups)
Antenna impedance	50Ω
Working manner	Same frequency single operation or different frequency single operation
Dimensions	136mmX59mmX40.5mm

TRANSMITTER

Output power	10w
Modulation mode (W/N)	16KΦ F3E,11KΦ F3E
Maximum frequency deviation (W/N)	<5K/<2.5KHz
Spurious radiation	<7uW
Preemphasis character	6dB/per fold
Emission current	≤ 2.4A
CTCSS/DCS frequency deviation (W/N)	0.75KHz±50Hz,0.37KHz±30Hz
Modulation sensitivity	12mV
Modulation distortion	≤5%

RECEIVER

Sensitivity	-122dBm(12dB SINAD)
Modulation receive bandwidth	5KHz
Audio power	≥0.5W
Audio distortion	<10%
Blocking	≥85dB
Intermodulation (W/N)	≥60dB ≥55dB
Adjacent channel selectivity	≥65dB ≥60dB
Spurious radiation	≥65dB

All stated specifications are subject to change without notice or obligation.