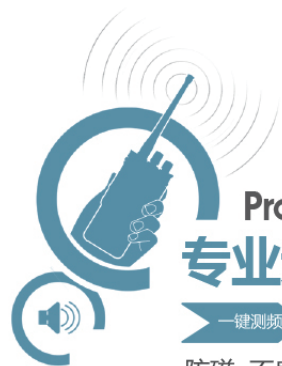




科技于心·立享沟通



Professional FM Transceiver
专业无线对讲机

一键测频

空中写频

万能解码

防磁 不串台 高清音质

使用说明书
USER'S MANUAL



告 示

《中华人民共和国无线电管理条例》规定：在中华人民共和国境内设置、使用无线电发射设备的单位和个人，必须到相应的无线电管理机构申办设台手续，领取电台执照后，方可使用。

使用说明书

调频手持对讲机

致用户

鸣谢!

欢迎选购本公司生产的对讲机，我们相信该对讲机将给您的生活和工作带来极大的方便。

对讲机采用了先进的技术，我们希望本产品的质量 and 功能将会使您感到满意。将给你带来方便、快捷、可靠的双向语音对讲通讯。

使用前须知

- ◆ 维修权可由专业技术人员进行。
- ◆ 请勿在易爆环境 (如煤气、尘埃、蒸汽等) 下使用对讲机或对电池充电。
- ◆ 在加油或停车于加油站时，请关闭对讲机。
- ◆ 无论有任何理由都不可以改装或调整本机。
- ◆ 请勿让对讲机受到长时尚的阳光直射，也不要将它放在加热器具附件。
- ◆ 请勿将对讲机放在极度多尘，潮湿及水溅之处，也不要将它放在不平稳的表面上。

安全性：使用者对使用对讲机的一般危险性的了解和认识是很重要的。

警告

- ◆ 易爆环境 (气体、粉尘以及烟雾等)
- ◆ 在加油或者停车于加油时，请关闭对讲机电源。

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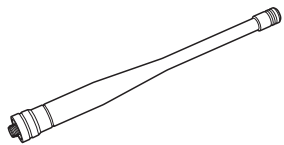
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开箱和装置检查

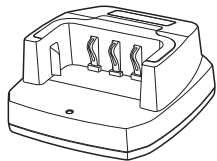
请小心地从包装箱中取出对讲机。我们建议在您废弃包装材料之前确认一下箱内有无下表列出的物品。若有任何物品在运输搬运中丢失或损坏，请立即向送货人提交索赔书。

随带的附件

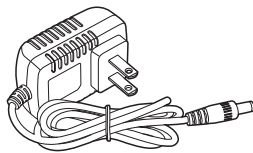
物品	数量
天线	1
电池充电器	1
锂电池电池组	1
皮带夹	1
螺丝组	1
对讲机挂绳	1
使用说明书	1



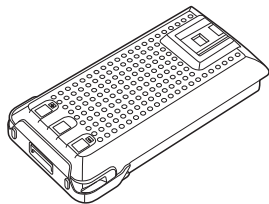
天线



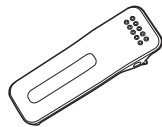
电池充座



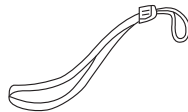
电池充电器



Li-ion (锂电) 电池组



皮带夹



对讲机挂绳

准备工作

● 电池组充电

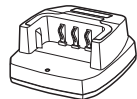
电池组在出厂时未充电, 请在使用前先进行充电。在购买后或长期存放 (两个月以上) 后第一次对电池组充电不能使电池组达到它的通常使用容量。在反复充/放电两、三次后, 使用容量将增至通常状态。

警告

- ◆ 如果电池组已经完全充电, 请勿再行充电。
- ◆ 在对电池组再充电后, 请将它从电池充电器上拿下。

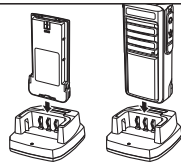
注:

- ◆ 进行充电时的环境温度应在5至40℃之间。在此范围之外充电时, 电池得不到完全充电。
- ◆ 在充电前, 请将装有锂电池组的对讲机电源关闭。对讲机内的电池组正在充电时使用对讲机会妨碍电池组的正确充电。
- ◆ 即使在完全正确的充电后使用时间也不增加时, 电池组的寿命已到。请更新电池组。



将交流电源转换器的电缆插入位于充电器背面上的适配器插孔。

将交流电源转换器插在交流电源输出插座上。



将电池组或装有电池组的对讲机插在充电器上。
确认电池组有于充电端子接触着。
● 充电灯点亮，充电开始。

在对随带的电池组充电8个小时后，请将它或装着它的对讲机从充电器上拿下。

● 充电器在完全充电后不会自动关断。

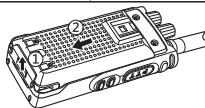
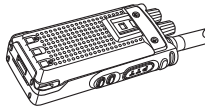
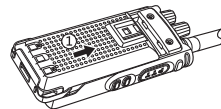
从交流电源输出插座上拿下交流电源转换器。

● 装/卸电池组

随带的电池组的平均使用时间为8个小时。平均使用的时间以5%发射时间、5% 接收时间和90%备用时间进行计算的。

警告

- ◆ 请勿短路电池端子或将电池丢弃于火中。
- ◆ 切勿擅自拆卸电池组的外壳。



● 安装天线

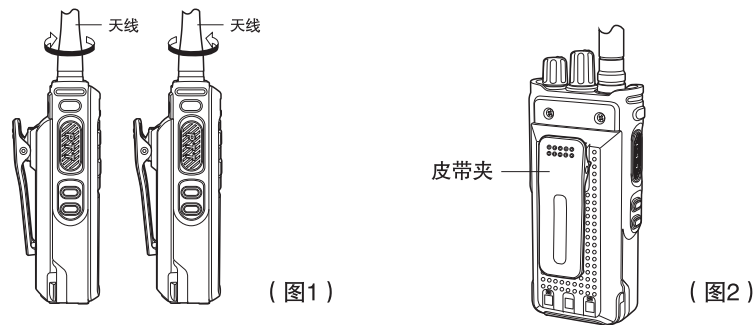
拿住天线底座，按顺时针方向将天线旋入对讲机顶部的连接器中，直至旋紧为止。
(图1)

注：不要将天线用作把柄、钥匙串或扬声器/麦克风挂。这样使用会损坏天线并降低对讲机的性能。

● 安装皮带夹

皮夹直接对准电池壳槽位置装进去即可。(图2)

注：如果未安装皮带夹，其安装位置在连续通讯中或搁置于炎热环境中时会变热。



● 安装扬声器/麦克风插孔盖

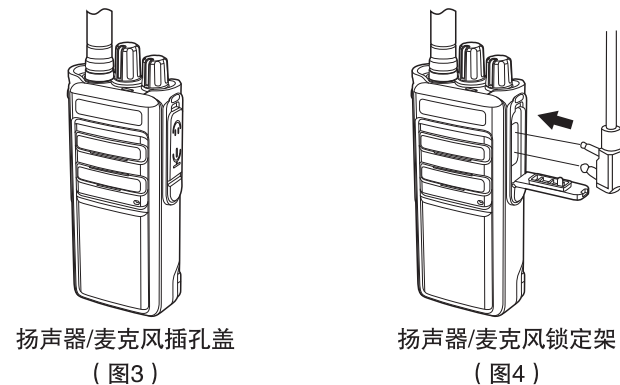
如果您不使用扬声器/麦克风，请合上扬声器/麦克风插孔盖。(图3)

注：要使用对讲机能够防水，您必须用随带的盖子盖上扬声器/麦克风插孔。

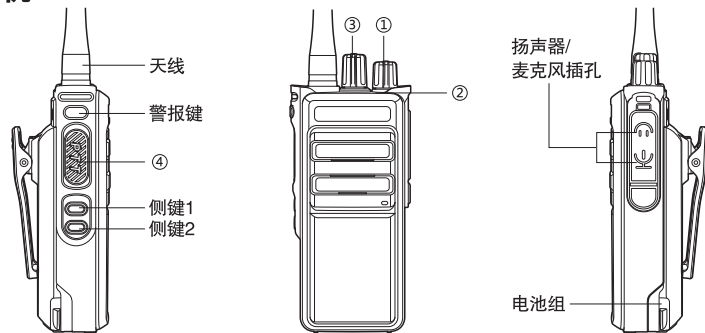
● 安装另购的扬声器/麦克风

1、将扬声器/麦克风插入扬声器/麦克风插孔。(图4)

注：使用扬声器/麦克风时，对讲机不能完全防水。



熟悉本机



- ① Power (电源) 开关/Volume (音量) 控制器
按顺时针方向转动时打开对讲机电源。要关闭对讲机电源时，按逆时针方向转动到咔哒声响起。转动时刻调节音量电平。
- ② 状态指示灯
在发射中红灯亮，在接收信号中绿灯亮。在发射中电池电压变低时红灯闪烁。
- ③ 频道选择器
旋转选择1频道到16频道。
- ④ PTT (按下通话) 开关
按下后对着麦克风讲话来呼叫对方。放开则进行接收。

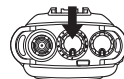
本机操作



按顺时针方向转动Power开关/Volume控制器打开对讲机电源
● 哔音响起



转动Power开关/Volume控制器调节音量。



转动频道选择器选择您要使用的信道。
● 当您接收到适当的信号时，扬声器会传出声音。



要走行呼叫时，在按住PTT开关的同时用平常的声调对着麦克风讲话。
● 请保持麦克风於距离嘴唇3至4cm处

放开PTT开关进行接收。

注：当电池电压变得低时，发射会停止，状态指示灯会闪烁红灯。请参见第12页上的“电池不足警告”。

● 调节静噪电平

静噪功能用于当您没有信号时使得扬声器静音。静噪打开时，您将从扬声器听到背景噪音。静噪关闭时，听到背景噪音。

您所选择的静噪电平决定静噪在何处关闭和打开。如果您选择的静噪电平过高，则无法听到较弱的信号；如果您选择的静噪电平过低，则信号将出现在背景噪音中。

● 调节静噪时

1. 打开对讲机的写频软件，请选择静噪等级 (0~9级)，由当地的环境来选择静噪电平的大小，一般选择“4”。
2. 用数据线连接对讲机和电脑，单击写频。对讲机的静噪电平就完成了，如果更换静噪电平的大小请重复以上的步骤。

● 扫描

扫描是有效的功能，用于监听编程在对讲机的信道上的信号。扫描时，对讲机对各个信道进行信号检测，并且仅停止在有信号的信道上。

注：删除在扫描之外的信道不被扫描。

对讲机将保留在通讯信道上，直到该信号消失。扫描将在信号消失的2秒后恢复，除非在该延迟时间内检测到新的信号。

开始扫描时，按下扫描键，然后听到提示音，信号灯绿色闪烁。结束扫描时，按下扫描键。

◆ 当扫描暂停在一个信道上时亮绿灯。

◆ 在扫描中的任何时间，您只要按下PTT开关对讲机暂停扫描。对讲机返回到最后收到信号的频道上进行发射。如果在扫描期间一直没有接收到有效信号，那么就返回到扫描开始频道上进行发射。

● 扫频

1、信道8按PTT和侧键1开机，侧键1短按功能变更为扫频开关

2、侧键1短按开启扫频，红绿LED同时开启，侧键1短按再按一次，则关闭扫频，红绿LED关闭

3、当接收到信号后，绿灯开始闪烁，一开始绿灯闪烁比较快时，说明正在扫描频率；当频率扫描正确后，绿灯闪烁变慢，开始扫描亚音；当绿灯长亮时，说明扫频已经完成

4、扫频完成后，可以旋转编码器切换信道，按PTT或者侧键1会有按键提示音且保存数据到相应信道，自动退出扫频，如需再次开启需按侧键1

5、扫频过程，发射对讲机需持续发射，否则可能扫描不成功，扫描不成功时，且没有信号，红绿LED同时开启，等待信号；扫频过程，如果发射对讲机出现断续，可以按侧键1重新扫描

6、建议扫频时，两台机器的距离在1-2米，尽量不要小于1米，小于1米，扫频速度比较慢

● 无线复制频率发射

信道9按PTT和侧键1开机，进入复制频率发射模式，直接开始发射，红灯闪烁，复制完成后，需手动重启，否则一直处于发射状态

● 无线复制频率接收

信道10按PTT和侧键1开机，进入复制频率接收模式，绿灯快速闪烁，接收到数据时，会有停顿感，当复制成功后，机器会自动重启，绿灯关闭

辅助功能

● 繁忙信道锁定 (BCL)

繁忙信道锁定功能可由当地的经销商开启或关闭。

当开启时，BCL可以防止对使用与您选择的信道相同的其他电台产生的干扰。当按下PTT开关后，如果该信道正在使用中，您的对讲机将发出警报，并且无法发射 (您无法发射)。放开PTT开关，可停止报警后，恢复到接收模式。

● 超时定时器

超时定时器的作用在于防止一个人过久使用一个信道。如果您连续发射10秒钟，对讲机将停止发射并发出哔音。要停止哔音，放开PTT开关。再次按下PTT开关便可恢复发射。

● 电池节电

电池节电功能在未接收到信号或无操作 (未按键或转动开关) 时降低耗电量。当信道未占线或无操作时间持续10分钟以上时，电池节电功能启动。在接收到信号或进行操作时，电池节电功能自动关断。

● 电池不足警告

电池不足警告提醒您电池需要再充电了。如果电池电量在发射中低至预定值，状态指示灯会闪烁红灯。当哔音响起时，对讲机将停止发射。请更新电池或进行充电。

● VOX

不用按PTT就可以进行通话，开启VOX后，说话声音到达门限值即可自动进行发射，可以通过写频软件修改声控等级、开关切换，以及侧键可进行声控开关切换

● 监听

没有信号出现时，对讲机的静噪电路会自动使扬声器消声，因此，您将听不到背景噪声。要手动关断静噪电路，按住Monitor键。此操作在您要调节音量电平或需要接收微弱信号时很有用。

开启监听功能时。状态指示灯点亮绿灯

● 本地报警、远程报警

在紧急情况下，可以通过报警键开启报警，开启本地报警时，本机发出警报音；当开启远程报警时，本机发出警报音的同时，会把警报音发射出去，其他机器可以接收到警报音。本地报警、远程报警可以通过写频软件的侧键功能开启、关闭。

● 亚音频CTCSS/数字亚音频DCS

某些信道可能具备预设的CTCSS/DCS信号音。CTCSS/DCS信号音量次可听信号音它使您可以忽视 (不听) 使用相同信道的第三者的呼叫。

当您接收到不同于您的对讲机上设定的信号音的信号时，您不会听到这个信号。同样地，您发射的信号仅可被 CTCSS/DCS信号音同于您的对讲机上设定的信号音的对方收听到。

注：虽然使用设有CTCSS/DCS信号音的信道可使您免于收听不想听到的呼叫，但它并不意味着您的呼叫是秘密的。

CTCSS标准频率表

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

数字亚音频频率表（1）：

D023N	D025N	D026N	D031N	D032N	D036N	D043N	D047N	D051N	D053N
D054N	D065N	D071N	D072N	D073N	D074N	D114N	D115N	D116N	D122N
D125N	D131N	D132N	D134N	D143N	D145N	D152N	D155N	D156N	D162N
D165N	D172N	D174N	D205N	D212N	D223N	D225N	D226N	D243N	D244N
D245N	D246N	D251N	D252N	D255N	D261N	D263N	D265N	D266N	D271N
D274N	D306N	D311N	D315N	D325N	D331N	D332N	D343N	D346N	D351N
D356N	D364N	D365N	D371N	D411N	D412N	D413N	D423N	D431N	D432N
D445N	D446N	D452N	D454N	D455N	D462N	D464N	D465N	D466N	D503N
D506N	D516N	D523N	D526N	D532N	D546N	D565N	D606N	D612N	D624N
D627N	D631N	D632N	D645N	D654N	D662N	D664N	D703N	D712N	D723N
D731N	D732N	D734N	D743N	D754N					

数字亚音频频率表（2）：

D023I	D025I	D026I	D031I	D032I	D036I	D043I	D047I	D051I	D053I
D054I	D065I	D071I	D072I	D073I	D074I	D114I	D115I	D116I	D122I
D125I	D131I	D132I	D134I	D143I	D145I	D152I	D155I	D156I	D162I
D165I	D172I	D174I	D205I	D212I	D223I	D225I	D226I	D243I	D244I
D245I	D246I	D251I	D252I	D255I	D261I	D263I	D265I	D266I	D271I
D274I	D306I	D311I	D315I	D325I	D331I	D332I	D343I	D346I	D351I
D356I	D364I	D365I	D371I	D411I	D412I	D413I	D423I	D431I	D432I
D445I	D446I	D452I	D454I	D455I	D462I	D464I	D465I	D466I	D503I
D506I	D516I	D523I	D526I	D532I	D546I	D565I	D606I	D612I	D624I
D627I	D631I	D632I	D645I	D654I	D662I	D664I	D703I	D712I	D723I
D731I	D732I	D734I	D743I	D754I					

技术指标

整体部分	
频率范围	136–174MHz 400–440MHz 400–480MHz
额定电压	DC7.4V(Li-ion锂电池)
记忆频道	16个频道
天线配置	加感天线
天线阻抗	50 Ω
工作方式	同频单工或异频单工
接地方法	负极
尺寸	162x62x31.5mm
重量	约220g
发射部分	
输出功率	
调制方法	调频
最大频偏	≤ ± 5KHz
残波辐射	≤ -60dB
预加重特性	每倍频程6dB
发射电流	≤ 1000mA
接收部分	
灵敏度	<0.16 μ V(12dB SINAD)
静噪灵敏度	<0.2 μ V
互调抗干扰	50dB
音频功率	≥ 300mW
接收电流	≤ 100mA
静噪守候	20mA

◆ 规格如因技术改进而有变动，恕不另行通知。

故障处理指南

问 题	解决方法
没有电源	<ul style="list-style-type: none">● 电池组可能已耗尽。请更新电池或进行再充电。● 电池组可能未正确安装，请取下电池组重装一次。
电池电力在充电后也持续不了多久	<ul style="list-style-type: none">● 电池组的寿命已到，请更新电池。
不能与组内的其他成员对话	<ul style="list-style-type: none">● 确认您所使用的频率和亚音频信号音是否与组内的其他成员相同。● 组内的其他成员可能离得太远，确认您是否在其他对讲机的有效范围之内。
信道中出现其他(非组员)的声音	<ul style="list-style-type: none">● 请改变亚音频信号音。这时，务必改变组内所有对讲机的信号音。

Thank you for purchasing this our radio. We believe this easy-to-use radio will provide reliable and dependable communication. our radio incorporates the latest advanced technology. As a result, we know that you will be pleased with the quality and features of this product.

PRECAUTIONS BEFORE USING

- ◆ Maintenance can only be performed by professional technicians.
 - ◆ Please use the standard battery pack and charger in order not to destroy the radio.
 - ◆ Do not expose the radio to sunlight for a long time, nor put it near the heat, nor use it in a high temperature environment.
 - ◆ Do not put it in extreme dust, wet or on unsteady surfaces.
- Keep it dry. (Rain or moisture will erode the electronic board).

Catalog

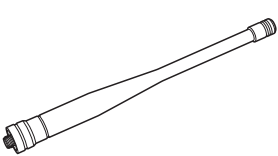
Unpack and check Equipment	01
Standard supplied accessories	01
Preparation	03
Getting familiar	08
Basic Operation	09
Function instruction	13
BCL	13
Time-out-timer (TOT)	13
Battery Saver	13
Low Battery Warning	14
VOX	14
Monitor	14
Local alarm, remote alarm	14
CTCSS/DCS	15
CTCSS	15
DSC	16
Specification	17
Trouble Shooting	18

Unpack and check Equipment

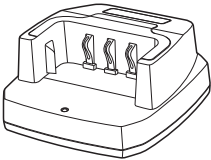
Carefully unpack the portable radio. We suggest that you check the following items before you throw away the packing materials

Standard supplied accessories

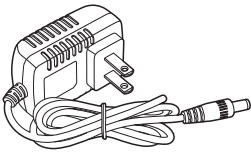
ITEM	QTY
Antenna	1
Battery charger kit	1
Li-ion battery pack	1
Belt clil	1
Screws	1
Hand strap	1
User manual	1



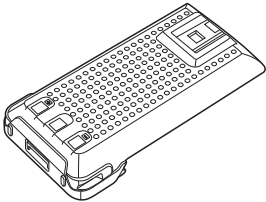
Antenna



Battery holder



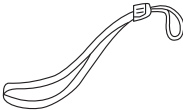
Battery charger



Li-ion battery pack



Belt clip



Hand strap

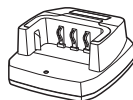
Preparation

● Charging the battery pack

Battery packs are not charged when they are shipped. Please 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

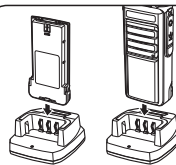
CAUTIONS

- ◆ After the battery is charged to its highest capacity, don't charge any more. If the radio still shows low power, please change a new battery pack.
- ◆ Never attempt to remove the casing from the battery pack.



Plug the power adapter cable into the desk charger jack located on the rear of the charger.

Plug the power adapter into an AC outlet.



Slide the Li-ion battery pack or radio with a Li-ion battery pack into the charger. Make sure the battery pack is in connected with the charging terminals.

- The charger LED lights and charging begins.

After about 8 hours of charging, remove the battery or radio from desk charger.

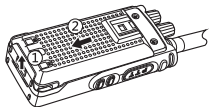
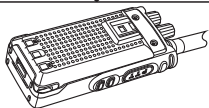
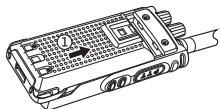
Unplug the power adapter from AC outlet.

● Install/Uninstall the battery pack

The average usage time of battery pack is 30 hours. Average usage time is 5% for transmitting, 5% for receiving and 90% for standby.

CAUTIONS

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



05

● Install antenna

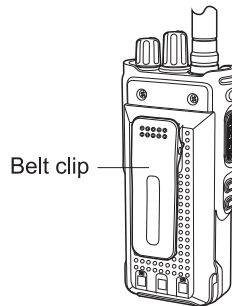
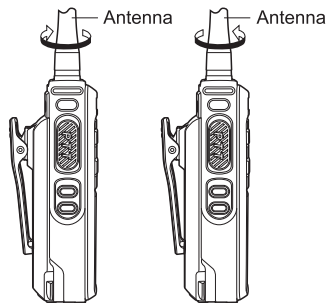
Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

Note: The antenna is neither a handle, a key ring retainer, nor a speaker / microphone attached point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance

● Install belt clip

It is finished to load the leather shell into the battery pack slot.

Note: If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.



06

● Install speaker/microphone cover

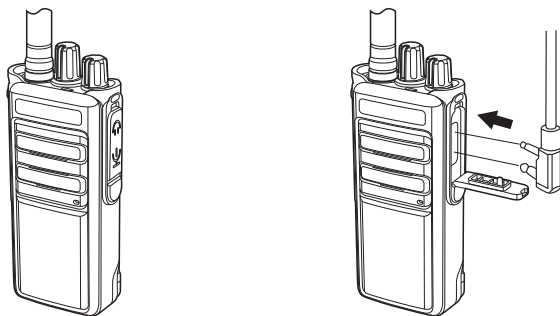
If you are not using a speaker/microphone, please keep the jacks cover installed.

Note: To keep the transceiver water resistant, you must cover the speaker/microphone jacks with the supplied cover.

● Install external speaker / microphone

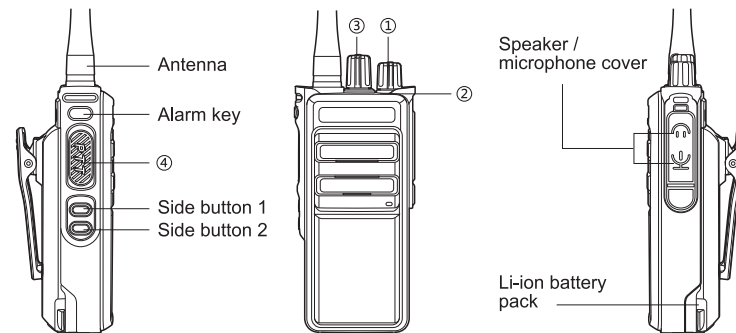
Plug the speaker/microphone into the socket of speaker/microphone.

Note: Incomplete to keep the water when using the speaker/microphone.



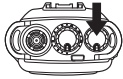
Speaker / microphone cover

Getting familiar

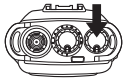


- ① Power / Volume Controller
Turn clockwise to switch on. Turn counterclockwise fully to switch off, rotate to adjust the volume.
- ② Indicator light
Light shows red while transmitting Light shows green while receiving Lights coruscate if the battery is low when transmitting.
- ③ Channel selector
Rotate to select channel 1-16.
- ④ PTT button
Press this button then speak into the microphone to call a station, release to receive a call.

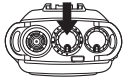
Basic Operation



Turn the power switch/volume control clockwise. You will hear a beep and speech to indicate the transceiver is ON. Turn the power switch/volume control counterclockwise to shut off the transceiver. A beep sounds.



Turn the Power switch/Controller adjusts the volume.



Turn the channel selector to select channel.
● While receiving a signal, the sound will be heard.



To transmit, press and hold PTT and speak into the microphone in your normal tone of voice.
● Hold the microphone approximately 3 to 4cm from your lips.

Release the PTT to receive.

Note: When the battery pack voltage becomes too low, transmit will stop and LED will blink red. See "Low Battery Warning" on page 12.

● Adjust the squelch level

The squelch function is used to mute the speaker when you have no signal. When squelch is on, You will hear the background from the speaker noise. When the squelch is off, background noise is heard.

The squelch level you choose determines where the squelch is closed and opened. If the squelch level you select is too high, you cannot hear the weaker signal; if you select the squelch level too low, the signal will appear in the background noise.

● Squelch level setting

1. Open the program software, select squelch level 1~9 grade. Please set it according to your need. Default setting is 4.
2. Connect the radio with PC using program cable, write the setting above to the radio. Connect the radio with PC using program cable, write the setting above to the radio.

● Scan

Scan allows you to detect if there is active signal on all channels. When it detects a signal, it will stop on current channel.

Note: those channels delete scanning won't be scanned.

The radio will keep working in that channel until the signal is disappeared. After 2 seconds, it will continue scanning.

Press and hold scan key to start scanning, then it will beep and GREEN LED light blinks.

Press and hold scan key again to stop scanning.

When the radio detects a signal, the LED light will turn green.

Press PTT to stop scanning momentary, the radio will transmit on the channel received the signal last time.

If the signal is exiting all the time, the radio will transmit on the start channel.

● Sweep

1. Channel 8 press PTT and side key 1 to turn on, and short press side key 1 to change the function to sweep switch
2. Short press side button 1 to turn on sweep, red and green LEDs are turned on at the same time, short press side button 1 again to turn off sweep, red and green LEDs turn off
3. When the signal is received, the green light starts to flash. When the green light flashes relatively quickly at first, it means that the frequency is being scanned; When the frequency is scanned correctly, the green light flashes slowly and starts to scan the sub-tone; when the green light is on, it means the frequency sweep has been completed
4. After the sweep is completed, you can rotate the encoder to switch channels, press PTT or side button 1 to have a key beep and save the data to the corresponding channel, automatically exit the sweep, if you need to turn it on again, press the side button 1
5. During the frequency sweeping process, the transmitting walkie-talkie must continue to transmit, otherwise the scanning may be unsuccessful. When the scanning is

unsuccessful and there is no signal, the red and green LEDs are turned on at the same time and wait for the signal; during the frequency sweeping process, if the transmitting walkie-talkie appears intermittent, you can press the side button 1 Rescan

6. It is recommended that the distance between the two machines be 1-2 meters when sweeping, try not to be less than 1 meter, less than 1 meter, the sweep speed is relatively slow

● Wireless copy frequency transmission

Channel 9 press PTT and side button 1 to turn on, enter the copy frequency transmission mode, start transmitting directly, the red light flashes, after copying is completed, you need to restart manually, otherwise it will always be in the transmitting state

● Wireless copy frequency reception

Channel 10 press PTT and side button 1 to turn on, enter the copy frequency receiving mode, the green light flashes quickly, when the data is received, there will be a sense of pause, when the copy is successful, the machine will automatically restart, and the green light will turn off

Function instruction

● BCL

BCL feature prevents you from disrupting their communications accidentally on a frequency where stations using different CTCSS or DCS codes maybe activate.

When it is turned on, it will forbid transmitting on the busy frequencies and make alarms when you press PTT. Release PTT stop alarming and return to standby state.

● Time-out-timer (TOT)

The purpose of the TOT is to prevent any caller from using a channel for an extended period of time. If you continuously transmit for a period of time that exceeds the programmed time set by your dealer. (The setting has OFF/1-10 minutes) The radio will stop transmitting and a beep tone will sound. To stop the tone, release the PTT.

● Battery Saver

Battery saver function will decrease the battery consumption when a signal is not being received and no operation are being performed (no keys are being pressed and no switches are being turned).

While the channel is not busy and no operation is performed for 10 seconds, battery saver turns on. When a signal is received or an operation is performed, battery saver turns off.

● Low Battery Warning

Low Battery Warning alerts you when the battery needs to be recharged or replaced. While operating the radio, if the battery power becomes low, an alert tone will sound and the LED indicator will blink red. The transceiver will stop transmit. Replace or recharge the battery pack

● VOX

You can make a call without pressing PTT. When VOX is turned on, the voice can be automatically transmitted when it reaches the threshold. The voice control level and switch can be changed through the frequency writing software, and the side key can be used to switch the voice control.

● Monitor

When there is no signal, the squelch circuit of the walkie-talkie will automatically muffle the speaker, so you will not hear the background noise. To manually turn off the squelch circuit, press and hold the Monitor button. This operation is useful when you want to adjust the volume level or need to receive weak signals.

● Local alarm, remote alarm

In an emergency, you can turn on the alarm through the alarm button. When the local alarm

is turned on, the machine will emit an alarm sound; when the remote alarm is turned on, the machine will emit an alarm sound and the alarm sound will be emitted, and other machines can receive the alarm. sound. Local alarm and remote alarm can be turned on and off through the side key function of the frequency writing software.

● CTCSS/DCS

If some channels set CTCSS or DCS code, the SQ can be turn on only when it receives the same code. A CTCSS tone or DCS code is a sub tone which allows you to ignore (not hear) calls from other parties who are using the same channel If the same frequency use different CTCSS/DCS, the SQ won't be turn on

CTCSS

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

DCS (1) :

D023N	D025N	D026N	D031N	D032N	D036N	D043N	D047N	D051N	D053N
D054N	D065N	D071N	D072N	D073N	D074N	D114N	D115N	D116N	D122N
D125N	D131N	D132N	D134N	D143N	D145N	D152N	D155N	D156N	D162N
D165N	D172N	D174N	D205N	D212N	D223N	D225N	D226N	D243N	D244N
D245N	D246N	D251N	D252N	D255N	D261N	D263N	D265N	D266N	D271N
D274N	D306N	D311N	D315N	D325N	D331N	D332N	D343N	D346N	D351N
D356N	D364N	D365N	D371N	D411N	D412N	D413N	D423N	D431N	D432N
D445N	D446N	D452N	D454N	D455N	D462N	D464N	D465N	D466N	D503N
D506N	D516N	D523N	D526N	D532N	D546N	D565N	D606N	D612N	D624N
D627N	D631N	D632N	D645N	D654N	D662N	D664N	D703N	D712N	D723N
D731N	D732N	D734N	D743N	D754N					

DCS (2) :

D023I	D025I	D026I	D031I	D032I	D036I	D043I	D047I	D051I	D053I
D054I	D065I	D071I	D072I	D073I	D074I	D114I	D115I	D116I	D122I
D125I	D131I	D132I	D134I	D143I	D145I	D152I	D155I	D156I	D162I
D165I	D172I	D174I	D205I	D212I	D223I	D225I	D226I	D243I	D244I
D245I	D246I	D251I	D252I	D255I	D261I	D263I	D265I	D266I	D271I
D274I	D306I	D311I	D315I	D325I	D331I	D332I	D343I	D346I	D351I
D356I	D364I	D365I	D371I	D411I	D412I	D413I	D423I	D431I	D432I
D445I	D446I	D452I	D454I	D455I	D462I	D464I	D465I	D466I	D503I
D506I	D516I	D523I	D526I	D532I	D546I	D565I	D606I	D612I	D624I
D627I	D631I	D632I	D645I	D654I	D662I	D664I	D703I	D712I	D723I
D731I	D732I	D734I	D743I	D754I					

Specification

General	
Frequency Range	136–174MHz 400–440MHz 400–480MHz
Power Supply	Rechargeable Li-ion battery 7.4V
Channel Capacity	16
Antenna	High gain
Antenna Impedance	50 Ω
Working Mode	Simple or half-duplex
Size	162x62x31.5mm
Weight	220g
Transmitter	
Output Power	
Modulation	FM
Max Deviation	$\leq \pm 5\text{KHz}$
Spurious Radiation	$\leq -60\text{dB}$
Pre-emphasis Characteristics	6dB
Transmitting Current	$\leq 1000\text{mA}$
Receiver	
Sensitivity	$<0.16 \mu \text{V}(12\text{dB SINAD})$
Intermediation	50dB
Audio Power	$\geq 300\text{mW}$
Receiving Current	$\leq 100\text{mA}$
Standby Current	20mA

Trouble Shooting

Troubles	Solution
No power.	The battery has been exhausted. Replace or recharge it; The battery is installed incorrectly. Remove it and install again.
The operating time becomes short, even the battery is fully charged.	Replace the battery.
Unable to communicate with the transceivers of the same group.	Confirm if the CTCSS/DCS is the same; The distance is out of range.
The voice of another group can be heard.	Change all QT/DQT of the group.