

Antimagnetic Horn



USER'S MANUAL



使用说明书



防磁喇叭

鸣谢！

感谢您惠购 **NUT** 品牌系列对讲机.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.

根据《中华人民共和国无线电管理条例》规定:

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条例的行为,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。

功能特点

- 防磁喇叭
- 超长待机100小时
- 电脑编程
- 数字/模拟亚音频
- 双守候
- 信道扫描
- 低电提示
- 调整静噪等级
- 语音报号(中英文)
- 宽/窄带选择
- 高低功率选择
- 发射定时

## 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，并与九伯通经销商联系。

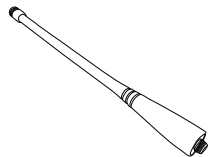
## ⚠ 注意

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

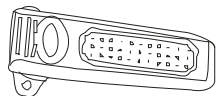
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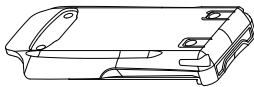
⚠ 请小心从包装箱内取出对讲机,我们建议您在废弃包装材料之前确认一下箱内是否有下列物品.



天线



皮带夹



Li-ion电池 (7.2V)



电池充电座



产品说明书

### 充电须知(1)

对Li-ion电池组充电, 注意事项:

- ① 电池在出厂时未充电,请在使用前先进行充电。
- ② 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。

**【警告】** 1. 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。  
 2. 当电池充电饱和时,请将它从电池充电器上取下。  
 3. 请勿短路电池端子或将电池丢弃于火中。  
 4. 切勿擅自拆卸电池的外壳。

- ③ 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。
- ④ 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。

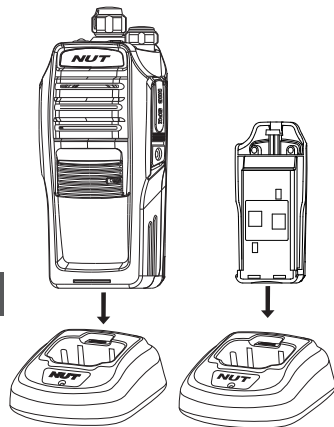
## 充电须知(2)

- ▶ 将“电池充电座”的插头插入市电电源。（如图所示）



- ▶ 将Li-ion电池或装有Li-ion电池的对讲机插在充电座上。（如右图）

○ 确认电池与充电端子接触正常。充电时红灯亮起，充电开始，充饱后绿灯亮起。



## 安装天线

- ▶ 握住天线底座，按顺时针方向将天线旋入对讲机顶部的连接器中，直到旋紧为止。

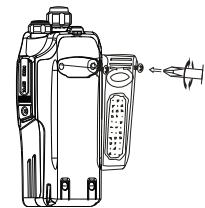
○ 请不要将天线用作把柄、把钥匙串或外接式扬声器/麦克风挂在天线上，这样使用会损坏天线并降低对讲机的性能。



## 安装皮带夹

- ▶ 请用随带的两只螺丝锁紧皮带夹。

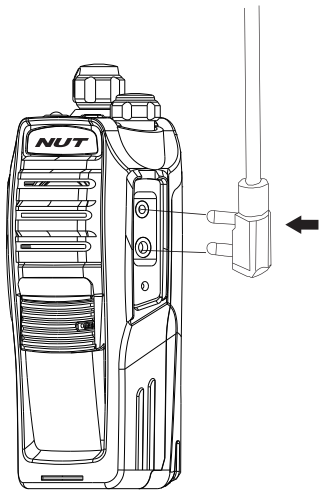
○ 请在安装皮带夹时，勿使用防止螺丝松动的胶，否则会损坏对讲机的外壳。



## 安装外接式扬声器/麦克风耳机

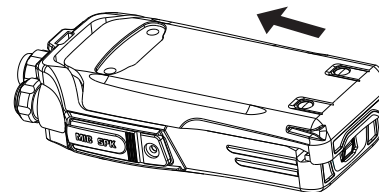
- ▶ 将扬声器/麦克风耳机直接插入扬声器/麦克风的插孔上。

○ 使用扬声器/麦克风时，对讲机不能完全防水。



## 装/卸电池组

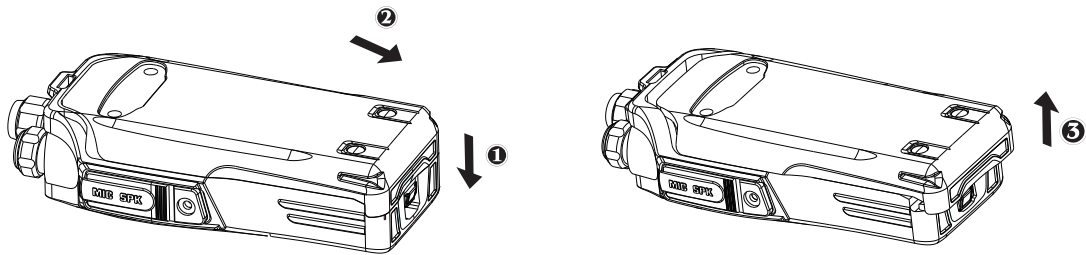
- ▶ 要装电池组时，将电池组对准对讲机背面铝框上相应位置，然后顺势将电池推入，直听到“咔嗒”声。



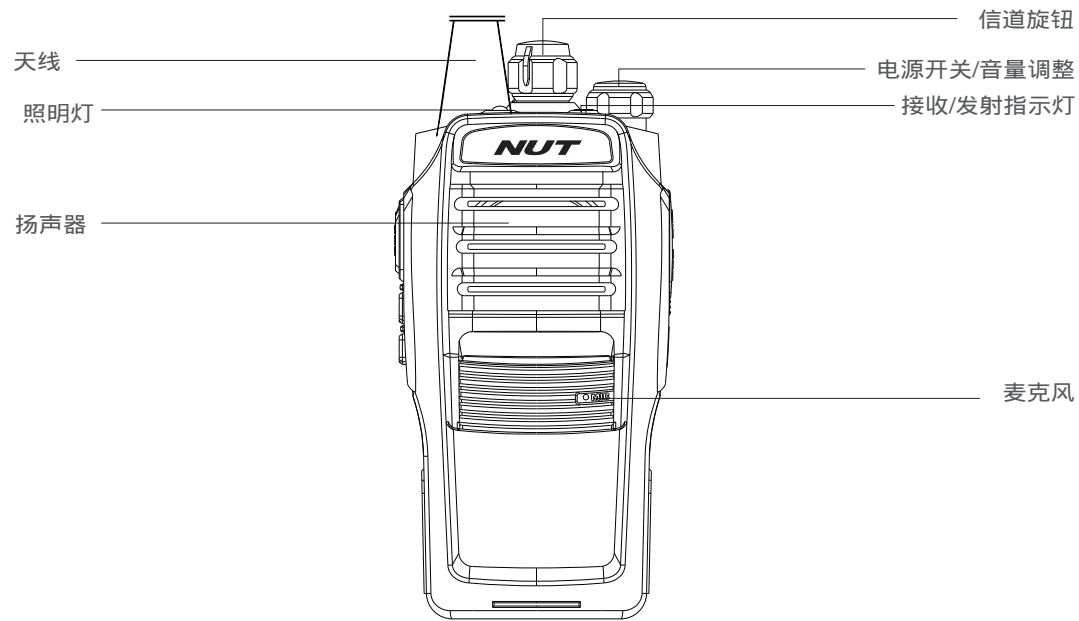
## 装/卸电池组

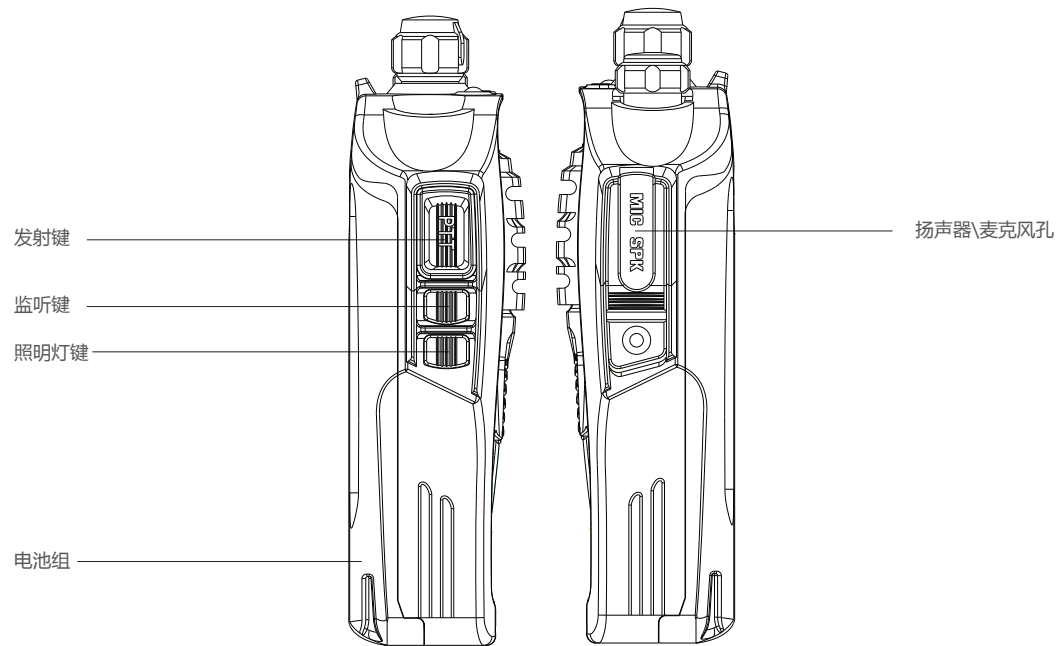
① 要卸电池组时，请先关闭对讲机。

- 先将对讲机尾部的电池释放扣按下。
- 同时将电池往后推。
- 顺着方向将电池取出。



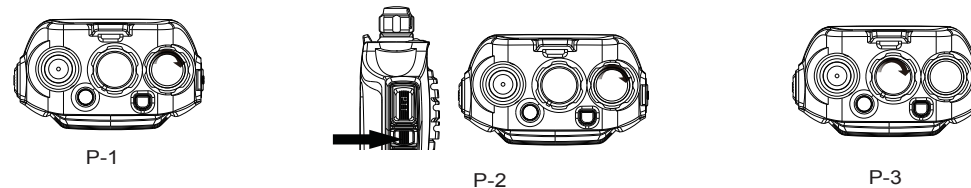
## 各部名称及其功能



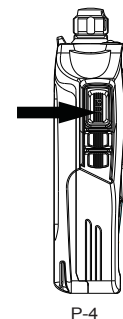


### 电源开关/音量调整/信道旋钮

- ▶ 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)
- ▶ 按住监听键的同时转动电源开关/音量调整控制器调节音量。(如图P-2)
- ▶ 转动信道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。



- ▶ 要进行呼叫时,按住“发射键”的同时,用正常声调对着麦克风讲话。
  - ▶ 请保持“麦克风”于嘴唇距离3至4cm处。
  - ▶ 放开“发射键”进行接收。
- (如图P-4)





## 电脑编程

先用电脑把对讲机内频率读出来,再进行信道设置.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。

## 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。(详情参阅13-15页亚音表、亚音数码表)。

## 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。

注：第16信道一定要有频率，不能有空频。

### 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。

## 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：第16信道一定要有频率，不能有空频。

## 低电量提示（LA）

电量不足时，语音提示“请充电”。关闭对讲机电源（请用户及时充电）

## 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。

## 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。

## 宽/窄带选择

频率间隔>25KHz 选择宽带，频率间隔<25KHz 选择窄带。

## 高低功率选择

发射功率在信道编程时可以设置，分高低两个级别。

## 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。

CTCSS/亚音频表									
01	67.0	11	94.8	21	131.8	31	171.3	41	203.5
02	69.3	12	97.4	22	136.5	32	173.8	42	206.5
03	71.9	13	100.0	23	141.3	33	177.3	43	210.7
04	74.4	14	103.5	24	146.2	34	179.9	44	218.1
05	77.0	15	107.2	25	151.4	35	183.6	45	225.7
06	79.7	16	110.9	26	156.7	36	186.2	46	229.1
07	82.5	17	114.8	27	159.8	37	189.9	47	233.6
08	85.4	18	118.8	28	162.2	39	192.8	48	241.8
09	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/亚音频数码表											
01	D023N	18	D115N	35	D212N	52	D306N	69	D431N	86	D546N
02	D025N	19	D116N	36	D223N	53	D311N	70	D432N	87	D565N
03	D026N	20	D122N	37	D225N	54	D315N	71	D445N	88	D606N
04	D031N	21	D125N	39	D226N	55	D325N	72	D446N	89	D612N
05	D032N	22	D131N	39	D243N	56	D331N	73	D452N	90	D624N
06	D036N	23	D132N	40	D244N	57	D332N	74	D454N	91	D627N
07	D043N	24	D134N	41	D245N	58	D343N	75	D455N	92	D631N
08	D047N	25	D143N	42	D246N	59	D346N	76	D462N	93	D632N
09	D051N	26	D145N	43	D251N	60	D351N	77	D464N	94	D654N
10	D053N	27	D152N	44	D252N	61	D356N	78	D465N	95	D662N
11	D054N	28	D155N	45	D255N	62	D364N	79	D466N	96	D664N
12	D065N	29	D156N	46	D261N	63	D365N	80	D503N	97	D703N
13	D071N	30	D162N	47	D263N	64	D371N	81	D506N	98	D712N
14	D072N	31	D165N	48	D265N	65	D411N	82	D516N	99	D723N
15	D073N	32	D172N	49	D266N	66	D412N	83	D523N	100	D731N
16	D074N	33	D174N	50	D271N	67	D413N	84	D526N	101	D732N
17	D114N	34	D205N	51	D274N	68	D423N	85	D532N	102	D734N

DCS/亚音数码表

103	D743N	121	D114I	139	D212I	157	D311I	175	D445I	193	D612I
104	D754N	122	D115I	140	D223I	158	D315I	176	D446I	194	D624I
105	D023I	123	D116I	141	D225I	159	D325I	177	D452I	195	D627I
106	D025I	124	D122I	142	D226I	160	D331I	178	D454I	196	D631I
107	D026I	125	D125I	143	D243I	161	D332I	179	D455I	197	D632I
108	D031I	126	D131I	144	D244I	162	D343I	180	D462I	198	D654I
109	D032I	127	D132I	145	D245I	163	D346I	181	D464i	199	D662I
110	D036I	128	D134I	146	D246I	164	D351I	182	D465I	200	D664I
111	D043I	129	D143I	147	D251I	165	D356I	183	D466I	201	D703I
112	D047I	130	D145I	148	D252I	166	D364I	184	D503I	202	D712I
113	D051I	131	D152	149	D255I	167	D365I	185	D506I	203	D723I
114	D053I	132	D155I	150	D261I	168	D371I	186	D516I	204	D731i
115	D054I	133	D156I	151	D263I	169	D411I	187	D523I	205	D732I
116	D065I	134	D162I	152	D265I	170	D412I	188	D526I	206	D734I
117	D071I	135	D165I	153	D266I	171	D413I	189	D532I	207	D743I
118	D072I	136	D172I	154	D271I	172	D423I	190	D546I	208	D754I
119	D073I	137	D174II	155	D274I	173	D431I	191	D565I		
120	D074I	138	D205I	156	D306I	174	D432I	192	D606I		

技术指标

技术指标			
一般规格			
频率范围	400.000-480.000MHz		
额定电压	DC7.2V(可充式锂电池)		
记忆频道	16个信道		
天线阻抗	50Ω		
工作方式	同频单工或异频单工		
体积	126mmX60.5mmX35mm		
发射部分		接收部分	
输出功率	5W	参考灵敏度	-122dBm(12dB SINAD)
调制方式(宽带, 窄带)	16KΦF3E, 11KΦF3E	调制接收带宽	5KHz
最大频偏(宽带, 窄带)	<5K/<2.5KHz	音频功率	0.3W
杂散辐射	<7μW	音频失真	<10%
预加重特性	6dB/每倍频递增	阻塞	≥85dB
发射电流	≤1.3A	互调(宽带, 窄带)	≥60dB ≥55dB
亚音频/数字亚音频频偏(宽带, 窄带)	0.75KHz±50Hz, 0.37KHz±30Hz	邻道选择性(宽带, 窄带)	≥65dB ≥60dB
调制灵敏度	12mV	杂波抑制	≥65dB
调制失真	≤5%		

○ 规格如因技术改进而有变动, 恕不另行通知。

## DCS

103	D743N	121	D114I	139	D212I	157	D311I	175	D445I	193	D612I
104	D754N	122	D115I	140	D223I	158	D315I	176	D446I	194	D624I
105	D023I	123	D116I	141	D225I	159	D325I	177	D452I	195	D627I
106	D025I	124	D122I	142	D226I	160	D331I	178	D454I	196	D631I
107	D026I	125	D125I	143	D243I	161	D332I	179	D455I	197	D632I
108	D031I	126	D131I	144	D244I	162	D343I	180	D462I	198	D654I
109	D032I	127	D132I	145	D245I	163	D346I	181	D464I	199	D662I
110	D036I	128	D134I	146	D246I	164	D351I	182	D465I	200	D664I
111	D043I	129	D143I	147	D251I	165	D356I	183	D466I	201	D703I
112	D047I	130	D145I	148	D252I	166	D364I	184	D503I	202	D712I
113	D051I	131	D152	149	D255I	167	D365I	185	D506I	203	D723I
114	D053I	132	D155I	150	D261I	168	D371I	186	D516I	204	D731I
115	D054I	133	D156I	151	D263I	169	D411I	187	D523I	205	D732I
116	D065I	134	D162I	152	D265I	170	D412I	188	D526I	206	D734I
117	D071I	135	D165I	153	D266I	171	D413I	189	D532I	207	D743I
118	D072I	136	D172I	154	D271I	172	D423I	190	D546I	208	D754I
119	D073I	137	D174II	155	D274I	173	D431I	191	D565I		
120	D074I	138	D205I	156	D306I	174	D432I	192	D606I		

## SPECIFICATIONS

GENERAL			
Frequency range	400.000-480.000MHz		
Rated voltage	DC 7.2V (Rechargeable Li-ion battery)		
Memory channel	16 channels		
Antenna impedance	50Ω		
Working manner	Same frequency single operation or different frequency single operation		
Dimensions	126mmX60.5mmX35mm		
TRANSMITTER		RECEIVER	
Output power	5W	Sensitivity	-122dBm(12dB SINAD)
Modulation mode (W/N)	16KΦF3E , 11KΦF3E	Modulation receive bandwidth	5KHz
Maximum frequency deviation (W/N)	<5K/<2.5KHz	Audio power	0.3W
Spurious radiation	<7μW	Audio distortion	<10%
Preemphasis character	6dB/per fold	Blocking	≥85dB
Emission current	≤ 1.3A	Intermodulation (W/N)	≥60dB ≥55dB
CTCSS/DCS frequency deviation (W/N)	0.75KHz±50Hz,0.37KHz±30Hz	Adjacent channel selectivity	≥65dB ≥60dB
Modulation sensitivity	12mV	Spurious radiation	≥65dB
Modulation distortion	≤5%		

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

CTCSS									
01	67.0	11	94.8	21	131.8	31	171.3	41	203.5
02	69.3	12	97.4	22	136.5	32	173.8	42	206.5
03	71.9	13	100.0	23	141.3	33	177.3	43	210.7
04	74.4	14	103.5	24	146.2	34	179.9	44	218.1
05	77.0	15	107.2	25	151.4	35	183.6	45	225.7
06	79.7	16	110.9	26	156.7	36	186.2	46	229.1
07	82.5	17	114.8	27	159.8	37	189.9	47	233.6
08	85.4	18	118.8	28	162.2	39	192.8	48	241.8
09	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											
01	D023N	18	D115N	35	D212N	52	D306N	69	D431N	86	D546N
02	D025N	19	D116N	36	D223N	53	D311N	70	D432N	87	D565N
03	D026N	20	D122N	37	D225N	54	D315N	71	D445N	88	D606N
04	D031N	21	D125N	39	D226N	55	D325N	72	D446N	89	D612N
05	D032N	22	D131N	39	D243N	56	D331N	73	D452N	90	D624N
06	D036N	23	D132N	40	D244N	57	D332N	74	D454N	91	D627N
07	D043N	24	D134N	41	D245N	58	D343N	75	D455N	92	D631N
08	D047N	25	D143N	42	D246N	59	D346N	76	D462N	93	D632N
09	D051N	26	D145N	43	D251N	60	D351N	77	D464N	94	D654N
10	D053N	27	D152N	44	D252N	61	D356N	78	D465N	95	D662N
11	D054N	28	D155N	45	D255N	62	D364N	79	D466N	96	D664N
12	D065N	29	D156N	46	D261N	63	D365N	80	D503N	97	D703N
13	D071N	30	D162N	47	D263N	64	D371N	81	D506N	98	D712N
14	D072N	31	D165N	48	D265N	65	D411N	82	D516N	99	D723N
15	D073N	32	D172N	49	D266N	66	D412N	83	D523N	100	D731N
16	D074N	33	D174N	50	D271N	67	D413N	84	D526N	101	D732N
17	D114N	34	D205N	51	D274N	68	D423N	85	D532N	102	D734N

**Read or Program the Frequency**

Please use NUT standard software to set and program the radio.

**CTCSS/DCS**

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

CTCSS: 50 groups    DCS: 208 groups (N groups).

**Dual-Watch Operation**

This function makes the portable radio receive the signal both from current channel(1th-15th channel) and 16th channel.

**Note:** The dual-watch operation is valid while the 16th channel with frequency .

Operation as follows:

Press and hold on“ Monitor” for seconds to power on, voice prompts“ Scan” .

- If the current channel is on 1th-15th channels, it can receive the signal both from current channel and 16th channel in turn.
- If the portable radio receive the signal from 16th channel,that can press“ PPT” switch to reply directly,It will return to dual-watch operation after the signal disappear for 5 seconds without reply.
- Turn off the portable radio to exit.

**Channel Scan**

Set and keep the portable radio on 16th channel,and then press and hold on“Monitor” for seconds to power on, voice prompts“Scan”, the radio will scan from 1th to 16th in turn.

Turn off the radio to exit.

**Low Power Alarm**

When the battery is exhausted,the radio will“beep”and remind.

**Squelch Level Adjust**

It helps to minimize interference from undesired weak signals and helps weak signals to be heard.

**Voice Prompt (Chinese/English)**

You can set it via the PC software.Turn the channel knob to wanted,will hear voice prompt.

**Wide/Narrow Bandwidth**

Frequency space>25KHz, it is Wide bandwidth.

Frequency space<25KHz, it is Narrow bandwidth.

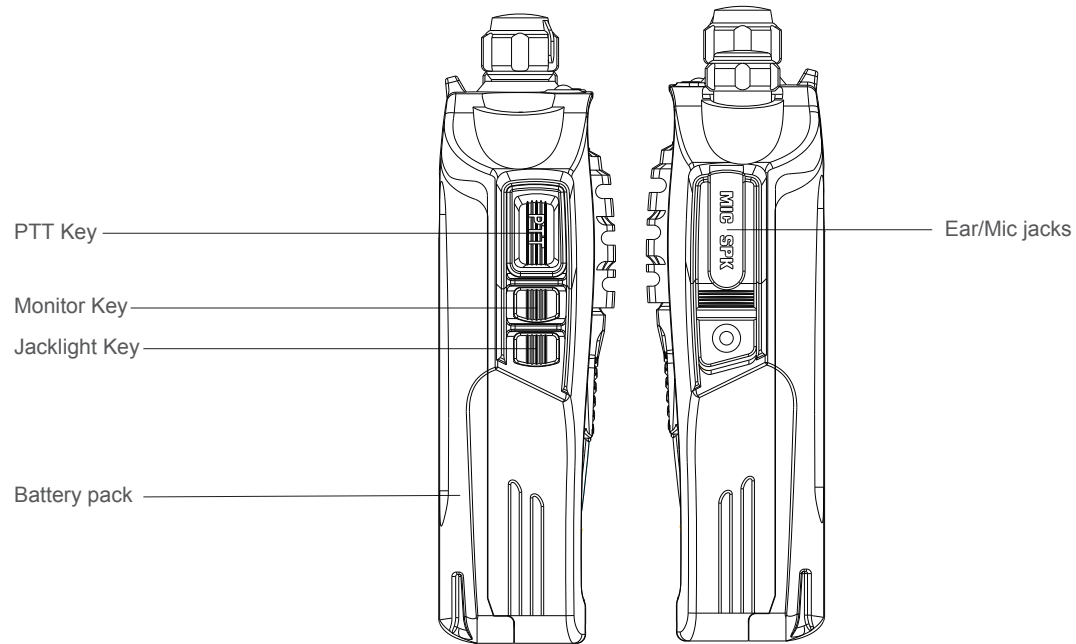
**High/Low Power Adjust**

Please set the High/Low output power via PC software.

**Time-Out-Timer (TOT)**

This function can limited the calling time.

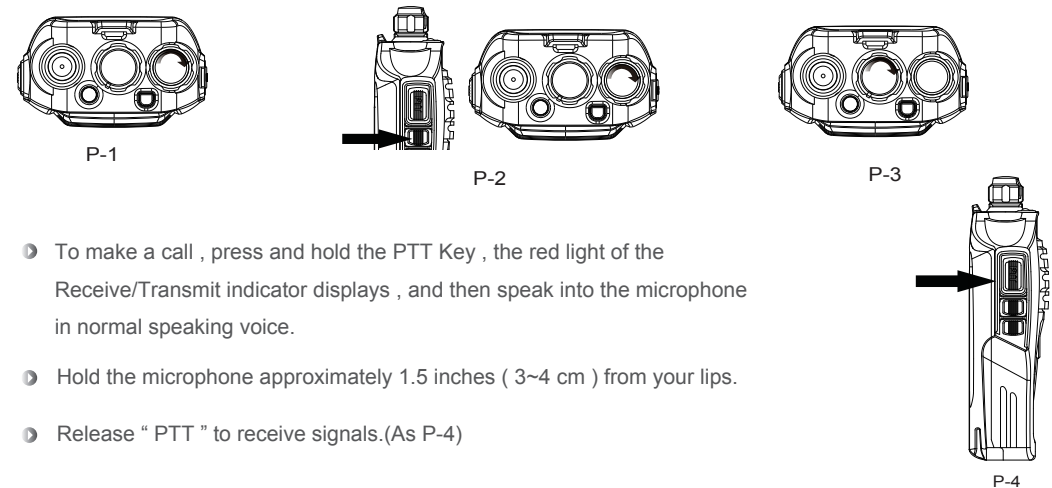
The portable radio will stop transmitting and launching a warning sound if transmitted over the setted time.



### BASIC OPERATION

- ▶ Turn the Power/Volume knob clockwise to power on, the radio will beep and remind the current channel (As P-1)
- ▶ Press and hold the Monitor key, and rotate the power/volume knob to adjust volume (As P-2)
- ▶ Turn the channel knob to choose your desired channel . (As P-3)

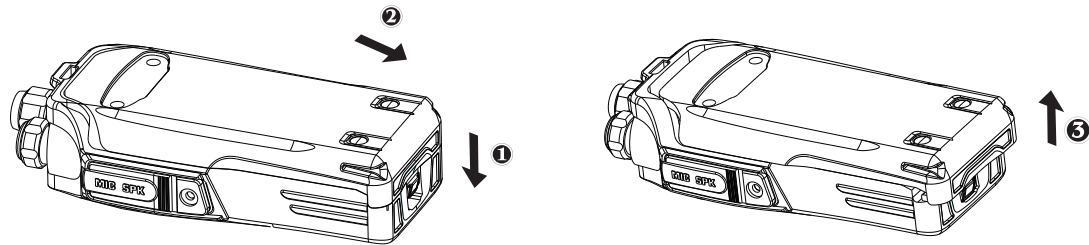
• When you receive signal, the speaker will sound.



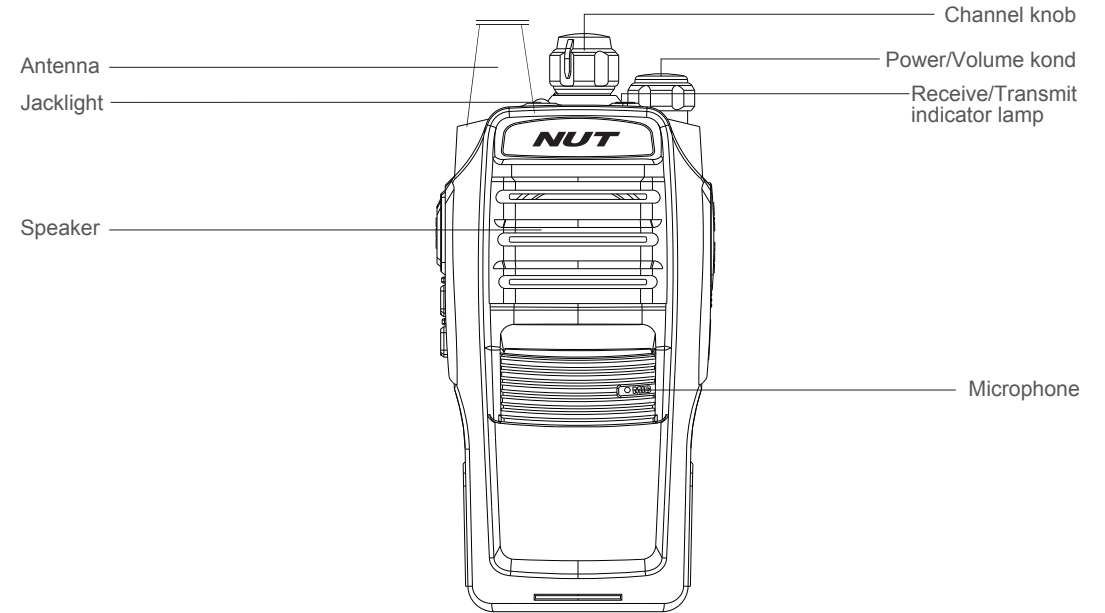
- ▶ To make a call , press and hold the PTT Key , the red light of the Receive/Transmit indicator displays , and then speak into the microphone in normal speaking voice.
- ▶ Hold the microphone approximately 1.5 inches ( 3~4 cm ) from your lips.
- ▶ Release “ PTT ” to receive signals.(As P-4)

## RELEASING THE BATTERY PACK

- ▶ Turn off the radio before releasing the battery pack.
- Press the battery release button in the direction of the arrow ❶ as show below
- Then push the battery in the direction of the arrow ❷ .
- And then release the battery pack.



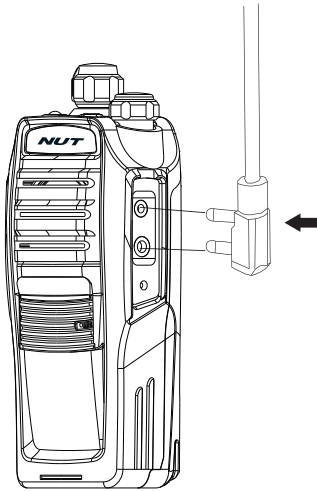
## DIAGRAM





## INSTALLING EXTERNAL SPEAKER/MICROPHONE

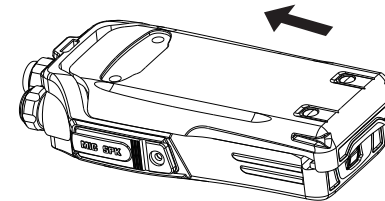
- ▶ Insert the speaker/microphone plugs into the speaker/microphone jacks.



PS: The radio is not fully rain-resistant while using the external speaker/microphone.

## ATTACHING THE BATTERY PACK

- ▶ Slide the battery pack into the back of the radio in the direction of arrow. Slide the battery pack until the battery release button makes a “clicking” sound.

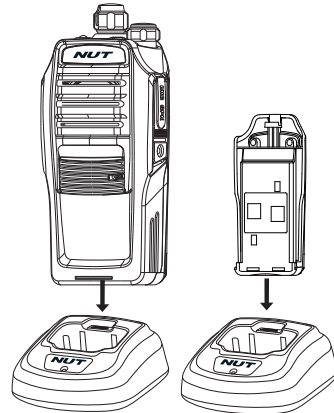


## CHARGING NOTES (2)

- Plug the AC power cable of the charger into city electric power.

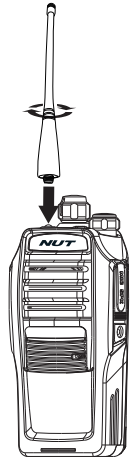


- Slide the Li-ion battery pack or radio with a Li-ion battery pack into the charger.
  - Make sure the battery pack is in connected with the charging terminals.
  - When charging begins, the RED LED light displays.
  - When the battery pack is charged to its greatest capacity, GREEN LED light displays.



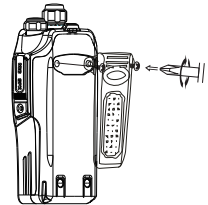
## INSTALLING ANTENNA

- Attach the antenna to the radio as illustrated on the right.



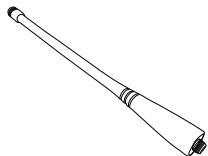
## INSTALLING BELT CLIP

- Attach the belt clip with the supplied screws using a phillips screw driver.

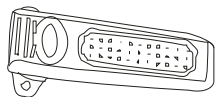


To attach the belt clip

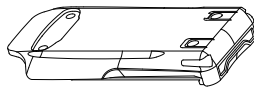
**⚠ Carefully unpack the portable radio. We suggest that you check the following items before you throw away the packing materials.**



Antenna



Belt Clip



Li-ion Battery (7.2V)



Battery Charger



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 purchased 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 remove 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.

- Please turn the power off before charging .
- If the radio still shows low power after the normal charge, please change a new battery.

**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.
- ⦿ 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 **NUT** agent.

Warning:

- Easily exploded environment(gas,dust and mist,etc)
- Cut off the power supply while refueling or parking at the gas station.

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***NUT***

Thank you for purchasing this NUT Radio.

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

NUT Radio incorporates the latest advanced technology.

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

## FEATURES

- Antimagnetic Horn
- 100 hours super -long standby time
- Read or Program the Frequency
- CTCSS/DCS
- Dual-Watch Operation
- Channel Scan
- Low Power Alarm
- Squelch Level Adjust
- Voice Prompt (Chinese/English)
- Wide/Narrow Bandwidth
- High/Low Power Adjust
- Time-Out-Timer (TOT)