

DCS

151	D263I	164	D351I	177	D452I	190	D546I	203	D723I
152	D265I	165	D356I	178	D454I	191	D565I	204	D731I
153	D266I	166	D364I	179	D455I	192	D606I	205	D732I
154	D271I	167	D365I	180	D462I	193	D612I	206	D734I
155	D274I	168	D371I	181	D464I	194	D624I	207	D743I
156	D306I	169	D411I	182	D465I	195	D627I	208	D754I
157	D311I	170	D412I	183	D466I	196	D631I		
158	D315I	171	D413I	184	D503I	197	D632I		
159	D325I	172	D423I	185	D506I	198	D654I		
160	D331I	173	D431I	186	D516I	199	D662I		
161	D332I	174	D432I	187	D523I	200	D664I		
162	D343I	175	D445I	188	D526I	201	D703I		
163	D346I	176	D446I	189	D532I	202	D712I		

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	120mmX53mmX38mm

TRANSMITTER

Output power	8W
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.

DCS

1	D023N	13	D071N	25	D143N	37	D225N	49	D266N	61	D356N
2	D025N	14	D072N	26	D145N	38	D226N	50	D271N	62	D364N
3	D026N	15	D073N	27	D152N	39	D243N	51	D274N	63	D365N
4	D031N	16	D074N	28	D155N	40	D244N	52	D306N	64	D371N
5	D032N	17	D114N	29	D156N	41	D245N	53	D311N	65	D411N
6	D036N	18	D115N	30	D162N	42	D246N	54	D315N	66	D412N
7	D043N	19	D116N	31	D165N	43	D251N	55	D325N	67	D413N
8	D047N	20	D122N	32	D172N	44	D252N	56	D331N	68	D423N
9	D051N	21	D125N	33	D174N	45	D255N	57	D332N	69	D431N
10	D053N	22	D131N	34	D205N	46	D261N	58	D343N	70	D432N
11	D054N	23	D132N	35	D212N	47	D263N	59	D346N	71	D445N
12	D065N	24	D134N	36	D223N	48	D265N	60	D351N	72	D446N

DCS

73	D452N	86	D546N	99	D723N	112	D047I	125	D125I	138	D205I
74	D454N	87	D565N	100	D731N	113	D051I	126	D131I	139	D212I
75	D455N	88	D606N	101	D732N	114	D053I	127	D132I	140	D223I
76	D462N	89	D612N	102	D734N	115	D054I	128	D134I	141	D225I
77	D464N	90	D624N	103	D743N	116	D065I	129	D143I	142	D226I
78	D465N	91	D627N	104	D754N	117	D071I	130	D145I	143	D243I
79	D466N	92	D631N	105	D023I	118	D072I	131	D152	144	D244I
80	D503N	93	D632N	106	D025I	119	D073I	132	D155I	145	D245I
81	D506N	94	D654N	107	D026I	120	D074I	133	D156I	146	D246I
82	D516N	95	D662N	108	D031I	121	D114I	134	D162I	147	D251I
83	D523N	96	D664N	109	D032I	122	D115I	135	D165I	148	D252I
84	D526N	97	D703N	110	D036I	123	D116I	136	D172I	149	D255I
85	D532N	98	D712N	111	D043I	124	D122I	137	D174II	150	D261I

Squelch Level Adjust

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

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).

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.

Monitor

Press key “Monitor” more than 2 seconds to turn it ON.
Release key “Monitor” to turn it OFF.

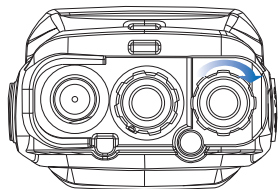
CTCSS

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		

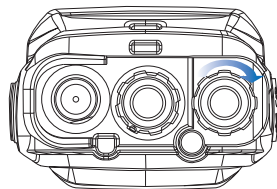
BASIC OPERATION

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

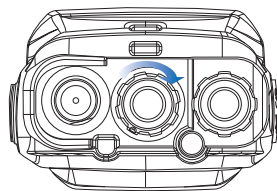


P-2

Channel Knob

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

When you receive signal, the speaker will sound.



P-3

FUNCTION INSTRUCTION

Read or Program the Frequency

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.

Time-Out-Timer (TOT)

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

Dual-Watch Operation and Channel Scan

Press "MON" to turn on the power, you will hear a voice prompt "scan".

If the channel is between 1 and 15, it will be in the "dual watch" state, which means "dual-watch" between the present working channel and channel 16.

If the channel is in channel 16, it will be in the "channel scanning" state, which will scan from channel 1 to channel 16.

Voice Prompt (Chinese/English)

Wide/Narrow Bandwidth

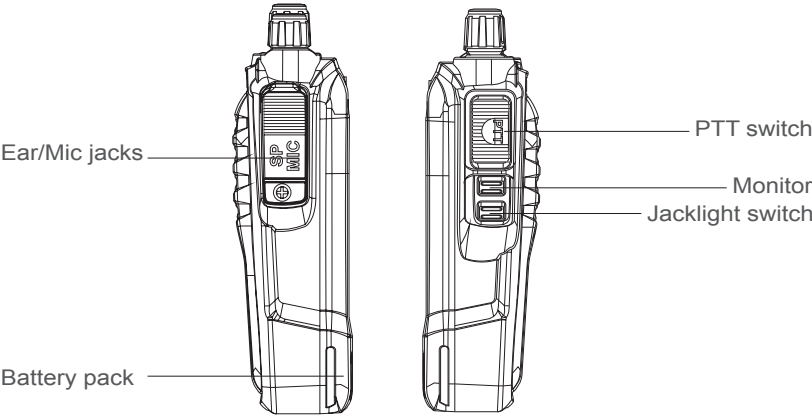
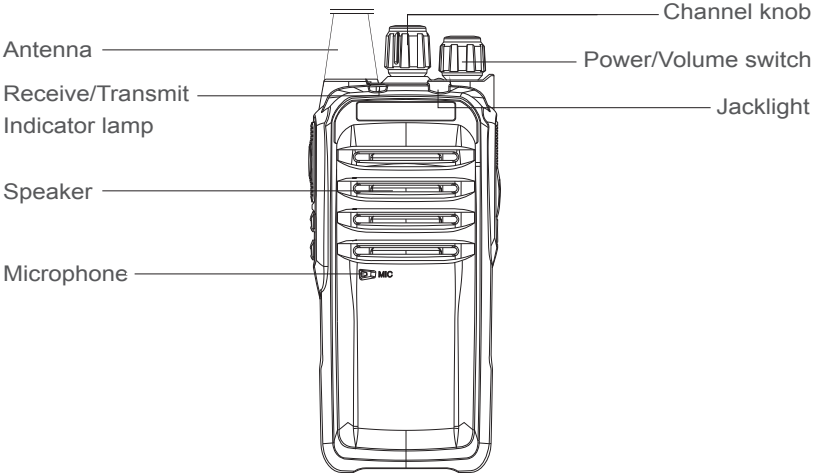
Frequency space > 25KHz, it is Wide bandwidth.

Frequency space < 25KHz, it is Narrow bandwidth.

Low Power Alarm

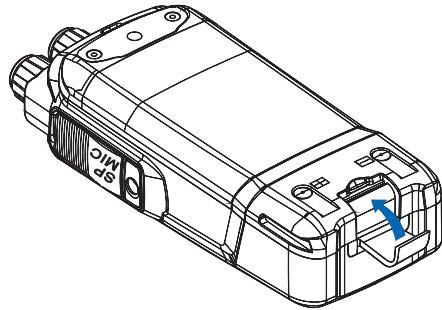
Audible tone and visual display tell you when the battery is running down.

DIAGRAM



ATTACHING THE BATTERY PACK

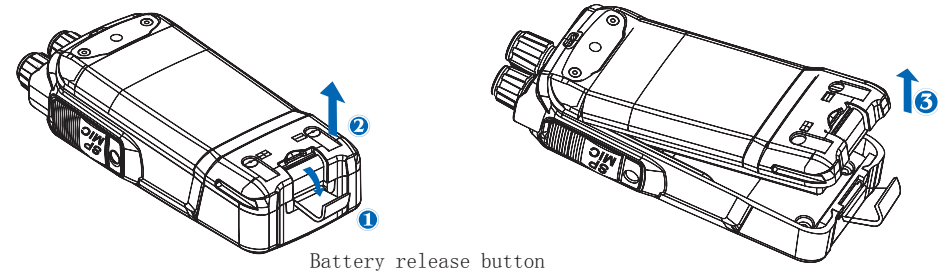
Slide the battery pack into the back of the radio in the direction of arrow, then lock it with the battery release button. Slide the battery pack until the battery release button makes a “clicking” sound.



RELEASING THE BATTERY PACK

Turn off the radio before releasing the battery pack.

1. Push the battery release button in the direction of the arrow ① as shown below.
2. The battery pack is then released.



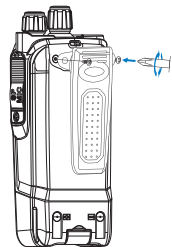
INSTALLING ANTENNA

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



INSTALLING BELT CLIP

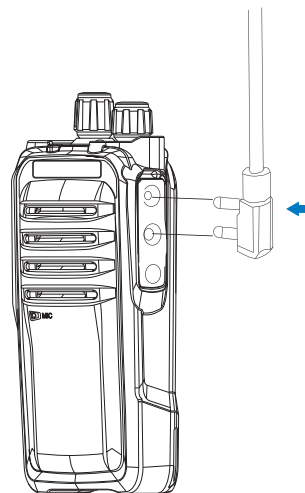
Attach the belt clip with the supplied screws using a phillips screw driver.



To attach the belt clip

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.

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 25 hours.
Average usage time is 5% for transmitting, 5% for receiving and 90% for standby.

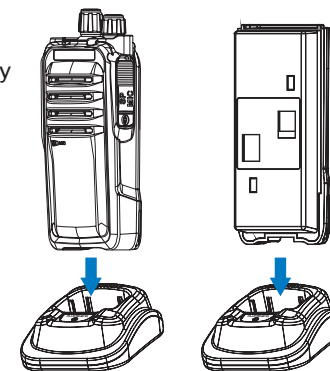
CHARGING NOTES (2)

Plug the AC adapter into the back of the charger.
Then plug the power cable of the adapter into 220V 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.



CONTENTS

SUPPLIED ACCESSORIES

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READY TO WORK

03 CHARGING NOTES

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06 INSTALLING EXTERNAL SPEAKER/MICROPHONE

07 ATTACHING/RELEASING BATTERY PACK

09 DIAGRAM

11 BASIC OPERATION

12 FUNCTION INSTRUCTION

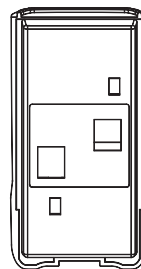
14 CTCSS

15 DCS

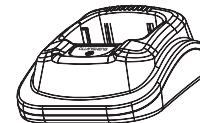
18 SPECIFICATIONS

SUPPLIED ACCESSORIES

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



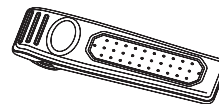
Li-ion Battery (7.2V) (1)



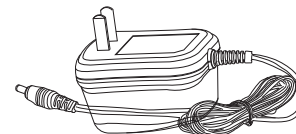
Battery Charger (1)



Antenna (1)



Belt Clip (1)



Adapter (1)



User ' s Manual (1)

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 agent.

FEATURES

- Output power: 8W
- Adopting newest polymer Li-ion battery
- Adopting imported PC material in case to make it solid&abradable
- 350 hours' super-long waiting time
- CTCSS/DCS
- Voice prompt (Chinese/English)
- High/Low power adjust
- Squelch level adjust
- Wide/Narrow bandwidth
- Jacklight
- PC programmable
- Channel scan
- Time-out-timer
- Low power alarm

USER'S MANUAL



Super-high
output power



3500 mAh
Li-ion battery



350 Hour's
Super-long waiting time

Thank you for purchasing this Radio.

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

Radio incorporates the latest advanced technology.

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