USER'S MANUAL
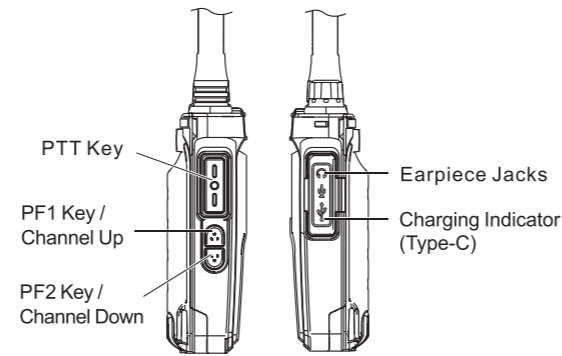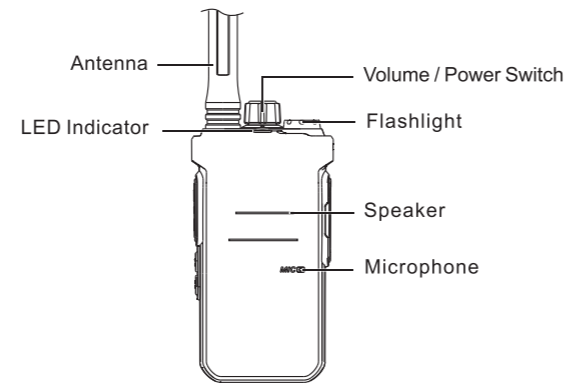
Thanks for purchasing two-way-radio. This transceiver offers reliable,clear and efficient telecommunication service.Using compact design for more easier to carry.We believe this easily used machine will provide you the reliable communication.

Random accessories list

Enclosed Accessories	Quantity
Transceiver (With type C charging port)	1
Li-lion Battery 3.7V	1
Antenna	1
Charger	1
Belt clip	1
User' s Manual	1
Hand Strap	1

Getting start

- Antenna
- LED Indicator
- Volume / Power Switch
- Flashlight
- Speaker
- Microphone
- PTT Key
- PF1 Key / Channel Up
- PF2 Key / Channel Down
- Earpiece Jacks
- Charging Indicator (Type-C)

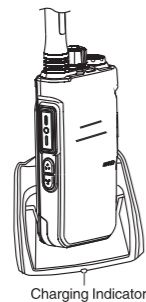## Charging Precautions

Put the transceiver into charger, in this case transceiver indicator light is red means charging. After charger full, the indicator is green. (As shown on the right)

Charging Indicator

Basic Operations and Function Description

Power ON / OFF
Rotate Volume Switch clockwise until a "Click" sound is heard, that means radio power is on.
Rotate Volume Switch anti-clockwise until a "Click" sound is heard, that means radio power is off.

Communication
Press PTT key to transmit, the indicator turns red, talk to the microphone at the moment, the other side will hear your speaking message. Release PTT key after finishing transmitting and start to receive the other side speaking message, when receiving the other side message the indicator light is green at the same time.

Volume Increase / Decrease
Rotate Volume Switch clockwise to increase the volume, rotate Volume Switch anti-clockwise to decrease the volume.

Channel Adjustment
Press PF1 / Channel Increase key, channel will increase in turns, press PF2 / Channel Decrease key, channel will decrease in turns.

Low Battery Voltage Warning
When you hear a sound "Please charge battery" while the indicator is flashing red light, it means battery voltage is lower than working voltage, please charging radio.

Monitor
Press the Identify key which stores Monitor function for 2 seconds, Monitor function start. Release the key to turn off the Monitor function.

Flashlight Starts
Press the Identify key which stores Flashlight function for 2 seconds, Flashlight function is on, and repeat this operation to turn off flashlight.

Alarm Function Starts
Press the Identify key which stores Alarm function for 2 seconds, Alarm function is starts, and press the PTT key to turn off.

VOX ON
Keep pressing PF1/PF2 the side key function definition key which stores VOX function for 2 second to turn on the VOX. Repeat operation to adjust the VOX function level. The higher the level, the smaller the voice of the voice activation, and turn off the VOX with a "Beep".

VOX Delay Function
Keep pressing PF1/PF2 the side key function definition key which stores VOX delay function for 2 second to turn on the VOX delay. Repeat operation to adjust the VOX delay time. The higher the level,the longer the delay time.

Key Locks
Press the Identify key which stores Channel-Lock function for 2 seconds, the radio will give a "Beep" sound to indicator that Channel-Lock function starts, and channel adjustment is unavailable now. Repeat this operation to turn off channel lock function.

Scan Starts
Press the Identify key which stores Scan function for 2 second, scan function is on, and repeat this operation to turn off scan.

Wireless copy
1.Press (no loose) the PF2 key of the receiver radio,and meanwhile turn on the radio which will accept data, it must keep press the PF2 key for 1 second,When see the green light flashing and hear "Beep" 3 times, the radio go into wireless copy receiving mode.

2.Then press (no loose) the PF1 key of and meanwhile turn on the other radio which is going to transmit data,and must press the PF2 key for 1 seconds,When see the red light flashing and hear "Beep" 3 times, the radio go into wireless copy replication mode.
·Press the PPT key of the transmitter, and the red light flashes to transmit data. Restart the walkie talkie and the radio will automatically exit the mode.
·The red light and green light of the receiver flashes crosswise to indicate that the data is being received at this time, and the power will restart after the radio receives the data.
Note:
The wireless copy frequency and ID code of the transmitter and receiver must be the same to transmit data. The wireless copy frequency and ID code can be changed by programming software.

Read-Write Frequency Encryption
Use write frequency software Settings

Scrambler Function
Users can set scrambler function ON/OFF on every working channel by software. Scrambler function is one of the ways for encryption. Scrambler is to restore the transmission spectrum through the spectrum to complete the change of the transmission spectrum, and to restore the signal after receiving it, so that achieve voice encryption finally. Each channel can select scrambler groups independently. Which has 8 groups optional.

Frequency Hopping Function
Frequency hopping function is DCS encryption on the transceiver. User can select Frequency Hopping 1, Frequency Hopping2, Frequency Hopping3 or Frequency Hopping4, and communication is unavailable using different frequency hopping, only workable if under the same frequency hopping.

CTCSS/DCS
User can set CTCSS/DCS signaling on the transceiver channel by software. Only when receiving same CTCSS/DCS signaling from other transceiver, the squelch will open. If same channels but with different CTCSS/DCS signaling for calling, then squelch will not open, only green light is on. CTCSS/DCS codes are listed below:

CTCSS (50 Numbers)

67.0	69.3	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3
131.8	136.5	141.3	146.2	151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2	189.9	192.8	196.6	199.5
203.5	206.5	210.7	218.1	225.7	229.1	233.6	241.8	250.3	254.1

DCS (232)

D017N	D023N	D025N	D026N	D031N	D032N	D036N	D043N	D047N	D050N
D051N	D053N	D054N	D055N	D065N	D071N	D072N	D073N	D074N	D114N
D115N	D116N	D122N	D125N	D131N	D132N	D134N	D135N	D143N	D145N
D152N	D155N	D156N	D162N	D165N	D172N	D174N	D205N	D212N	D217N
D223N	D225N	D226N	D243N	D244N	D245N	D246N	D251N	D252N	D254N
D255N	D261N	D263N	D265N	D266N	D271N	D274N	D305N	D306N	D311N
D315N	D325N	D331N	D332N	D343N	D345N	D346N	D351N	D356N	D364N
D365N	D371N	D411N	D412N	D413N	D423N	D425N	D431N	D432N	D445N
D446N	D452N	D454N	D455N	D462N	D464N	D465N	D466N	D503N	D506N
D516N	D523N	D526N	D532N	D534N	D546N	D565N	D606N	D612N	D624N
D627N	D631N	D632N	D645N	D654N	D662N	D664N	D703N	D712N	D723N
D731N	D732N	D734N	D743N	D754N	D765N				

D017I	D023I	D025I	D026I	D031I	D032I	D036I	D043I	D047I	D050I
D051I	D053I	D054I	D055I	D065I	D071I	D072I	D073I	D074I	D114I
D115I	D116I	D122I	D125I	D131I	D132I	D134I	D135I	D143I	D145I
D152I	D155I	D156I	D162I	D165I	D172I	D174I	D205I	D212I	D217I
D223I	D225I	D226I	D243I	D244I	D245I	D246I	D251I	D252I	D254I
D255I	D261I	D263I	D265I	D266I	D271I	D274I	D305I	D306I	D311I
D315I	D325I	D331I	D332I	D343I	D345I	D346I	D351I	D356I	D364I
D365I	D371I	D411I	D412I	D413I	D423I	D425I	D431I	D432I	D445I
D446I	D452I	D454I	D455I	D462I	D464I	D465I	D466I	D503I	D506I
D516I	D523I	D526I	D532I	D534I	D546I	D565I	D606I	D612I	D624I
D627I	D631I	D632I	D645I	D654I	D662I	D664I	D703I	D712I	D723I
D731I	D732I	D734I	D743I	D754I	D765I				

Technical Specifications

Band	VHF/UHF
Frequency Range	VHF/UHF
Memory Channel	16
Audio Distortion	<5%
Frequency Stability	±2. 5ppm
Maximum Frequency Deviation	≤5KHz/≤2. 5KHz
Remanent Radiation	≤7uW
Modulation Mode	16K φ F3E/ 11K φ F3E
Reference Sensitivity	≤0. 25uV/≤0. 3uV
Noise-free Sensitivity	≤0. 2uV/≤0. 25uV
Adjacent Channel Selectivity	≥65dB
Spurious Response Rejection	≥55dB
Inter-Modulation	≥60dB
Electric Current	≤1. 3A
Operating Voltage	3. 7V DC

Warranty Card

Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Address: _____ ZIP Code: _____

Warranty instructions:
1. This warranty card shall be kept by the customer as a warranty certificate and will not be made up for loss.
2. This card must be covered by the point of sale and the date of completion before it can take effect.
3. This card may not be modified, please confirm that the warranty card series number is consistent with the purchase radio number, otherwise it is invalid.
4. The warranty period is one year, chargers, batteries, earphones, antennas and feeder are consumables and are not covered by warranty.
5. Users can choose the following channels to obtain maintenance services:
a. Handle it at the original purchase office.
b. Our company is at the local special maintenance point.