PROFESSIONAL WATERPROOF RADIO
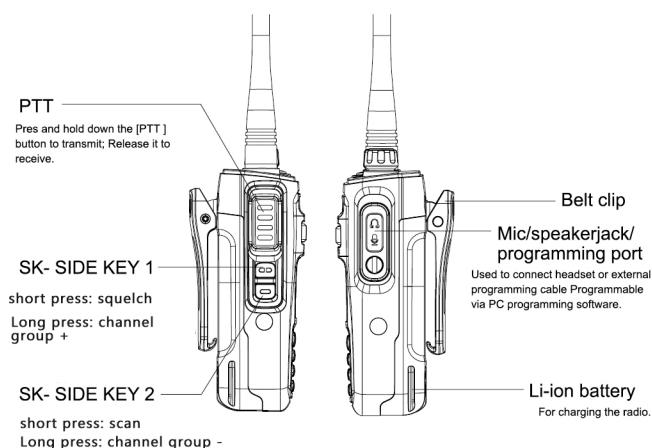
TRANSCEIVER PROFESSIONAL

HIGH POWER OUTPUT/HIGH-CAPACITY LI-ION BATTERY
Built-in CTCSS/DCS Programmable Channels¹   Transmmit

USER S MANUAL

⚠️ 📖 This manual contains important warnings and instructions, please read them carefully and keep them for reference

Function & Knobs

❶ Antenna
❼ Power/Volumn button
❻ Encoder
❽ LED indicator
⓫ SP/MIC connector
❾ Speaker
❿ Microphone
❷ PTT button
❸ Key2
❹ Key3
❺
Hidden display

Key2: Short press: Squelch
Long press: Channel Adjust +

Key3: Short press: Scan
Long press: Channel Adjust -

❶ Antenna	❷ PTT button	❸ Squelch or channel +
❹ scan or channel -	❺ Hidden display	❻ Encoder
❼ Power/Volumn button		❽ LED indicator
❾ Speaker	❿ Microphone	⓫ SP/MIC connector
⓬ Battery Pack	⓭ SIDE BUTTONS	

PTT
Pres and hold down the [PTT] button to transmit; Release it to receive.

Belt clip

Mic/speakerjack/programming port
Used to connect headset or external programming cable Programmable via PC programming software.

SK- SIDE KEY 1
short press: squelch
Long press: channel group +

SK- SIDE KEY 2
short press: scan
Long press: channel group -

Li-ion battery
For charging the radio.

PTT(Push-To-Talk) Switch

Press PTT then speak into the microphone to call and lights red.
Release PTT to receive signal and lights green.
— Side key1: Programmable
— Side key2: Programmable

Speaker/Microphone Jack
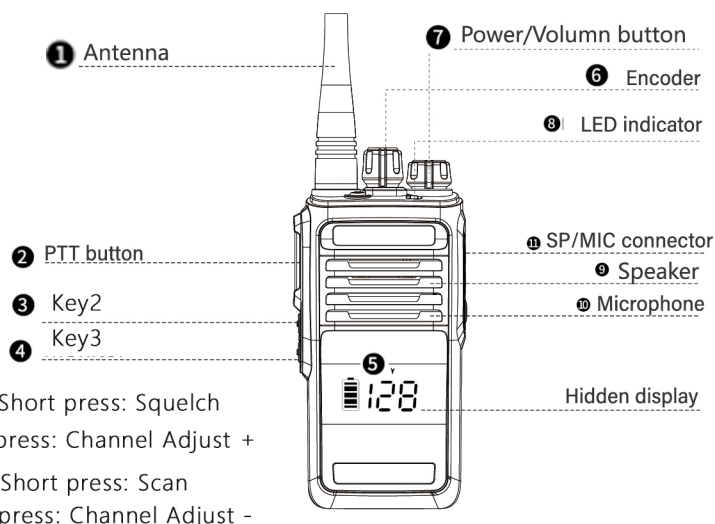— Jack for speaker mic or Programming cable.

SIDE KEY PROGRAMMING

The radio side key1& side key2 (short press/long press) can be progam to these function
CLOSE/MONITOR/SCAN/CHANNEL+/CHANNEL-

Preparation

Lithium-ion battery charging instructions (applicable to models with lithium-ion batteries)

❶ Plug the power adapter into the AC power outlet and the charger indicator will turn green.

❷ Insert the lithium-ion battery pack or the walkie-talkie equipped with the lithium-ion battery pack into the charger, confirm that the battery pack is in good con-tact with the charging terminal, and the indicator light turns red during charging.

❸ When the battery is charged to 90%, the indicator light turns orange.

❹ When the battery is fully charged, the indicator light of the charging stand turns green.

After charging the battery pack for 9 hours, remove it from the charger.

⚠️ Warning

■ If the battery pack is fully charged, do not recharge it again, otherwise the life of the battery pack will be shortened or damaged.

■ After charging the battery pack, remove it from the battery charger. Char-ging the battery pack for more than 5 days will shorten the life of the bat-tery pack due to overcharging.

⚠ Note:

- The ambient temperature during charging is between 5 and 40 degrees Celsius. Outside this range, the battery pack cannot be fully charged during charging.
- Please turn off the power of the walkie-talkie equipped with the lithium ion battery pack before charging. Using the walkie-talkie while charging will prevent the battery pack from charging correctly.
- If the use time does not increase even after the correct charging, the life of the battery pack has expired, please replace the battery pack with a new one.

FUNCTION

☐ Monitor
Press it and turn the volume knob to test the speaker volume

☐ High/Low Power
Press the defined High/Low power function, the radio output power will be switch between high power and low power

☐ Adjust channel 1-128
Long press Key2 or Key3 to adjust channels

☐ Busy Channel Lockout
This function can prevent other two way radio from disturbance. This function can be programmed by PC software to ON or OFF. If this function enable, the radio transmitter function was disabled and there is "du" beep when press PTT, in this case it will not disturb other communicate in this channel. If this function disable, it will be talking in normally.

☐ WIDE/NARROW BAND
It allows you to select wide band (25khz) or narrow band (12.5khz) by PC software

☐ Battery Save
The function decreases the power used when a signal is not being received and no operations are being performed (no keys are being pressed, and no switches are being turned) While the channel is not busy and no ope-ration is performed for 10s, battery save turns ON. When a signal is received or an operation is perf-ormed, battery save turns OFF.

☐ SCAN
The radio can scan in 16th channel, it will scan the activate channels to talk. There is Carrier scan or Time scan which can program by PC software.
→ **Carrier Scan:**
the radio will scan and stop at the activated channel until the signal disappeared
→**Time Scan:**
the radio will scan and stop at this channel for 5 seconds then continue to scan next activated channels

☐ Lower Power Alert
If the radio battery power is low, the radio will sound the low power annunciation or sounds the "du.." (programmed by PC)

☐ Voice Compand
This function is use to avoid from the interference, you can use it when there is too much Disturbed environment You can program it on/off by PC software

☐ Programming password
The radio have the function to set password for reading and write frequency This will prevent unauthorized person to program the radio.

☐ SQUELCH LEVEL
It means the signal strength to open receiver, 0-9 levels can be programmed by PC software. Level 9 signal strength is strong than level 1, it will always open squelch if set to level 0

☐ VOICE GUIDE
IThere is voice guide when power ON or select channels, you can use PC software to program it as OFF, Chinese, English

☐ TIME OUT TIMER
- This function is to prevent any person from using the channel for an extended period of time.
- If you continuously transmit for 300 seconds, the radio will stop transmitting and a tone will sound.
- To stop the tone, release PTT and press PTT again to resume transmitting
- There is OFF 30s 60s 90s⊠ 300s can be programmed by PC software

☐ CTCSS/DCS
Some channels may have pre-programmed CTCSS/DCS, it is a sub tone which allow you to ignore calls from others who are using the same channel. When you receive a signal that have a tone different from the one set up in your radio, you will not hear the signal. Likewise, signals that you transmit will only be heard by those whose CTCSS/DCS matches the tone set up in your radio.

CTCSS						
67.0	88.5	114.8	151.4	177.3	203.5	250.3
69.3	91.5	118.8	156.7	179.9	206.5	254.1
71.9	94.7	123.0	159.8	183.5	210.7	
74.4	97.4	127.3	162.2	186.2	218.1	
77.0	100.0	131.8	165.6	189.9	225.7	
79.7	103.5	136.5	167.9	192.8	229.1	
82.5	107.2	141.3	171.3	196.6	233.6	
85.4	110.9	146.2	173.8	199.5	241.8	

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