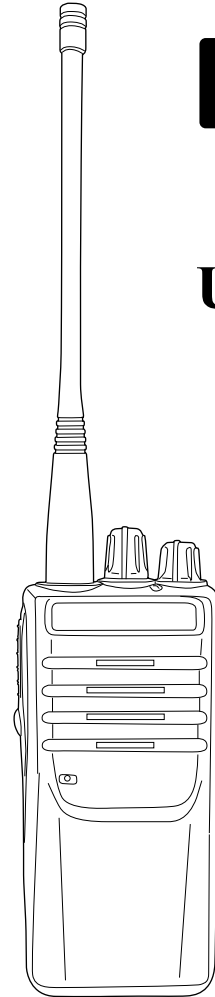




USER'S MANUAL



V85pro⁺

- 1500mA Li-ion
- PC Programmable
- Voice Annunciation
- PTT ID

[CONTENTS]

TO USER

Thank you for purchasing our serial transceiver. We appreciate your trust in our products and believe that its easy operation function would well serve your diverse communication needs.

MODEL COVER BY THIS MANUAL: V85pro⁺

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NOTICES TO THE USER

- Illegal operation is punishable by fine or imprisonment or both.
- Refer service to qualified technicians only.

SAFETY:

- It is important that the operator is aware of and understands hazards common to the operation of any transceiver.
- We do not guarantee the safety and operation of the transceiver when using accessories and /or attachments not sold by us.

▲ WARNING ←

- EXPLOSIVE ATMOSPHERES(GASES, DUST, FUMES, etc.)
Turn off your transceiver while taking on fuel, or while parked
- in gasoline service stations.

PRECAUTIONS

Observe the following precautions to prevent fire, personal injury and transceiver damage.

- ◆ Do not modify or attempt to adjust this transceiver for any reason.
- ◆ Do not expose the transceiver to long periods of direct sunlight, nor place it close to heating appliances.
- ◆ Do not place the transceiver in excessively dusty, humid, and/or wet areas, nor on unstable surfaces.
- ◆ If an abnormal odor or smoke is detected coming from the transceiver, switch OFF the power immediately and remove the optional battery pack from the transceiver. Contact your dealer.

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

SUPPLIED ACCESSORIES

| Item | Quantity |
|---------------------|-----------------|
| Antenna | 1 |
| Charger | 1 |
| Adaptor | 1 |
| Li-ion Battery Pack | 1 |
| Belt clip | 1 |
| User's manual | 1 |
| Hand Strap | 1 |

CHARGING WARNINGS:

Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal. Please replace or charge the battery pack while low power alert.

AVAILABLE BATTERIES

Please use our special battery to charge transceiver, it may happen explode and damaged body if using other brand batteries.

Notice:

1. Do not short the battery terminals or dispose of the battery in fire. Never attempt to remove the casing from the battery pack.
2. The ambient temperature should be between 5 and 40°C while charging is in progress. Charging outside this range may not fully charge the battery.
3. Always switch OFF the transceiver equipped with a battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.
4. Do not plug/unplug the AC adaptor and battery during charging, to avoid interference charging program.
5. The battery pack life is over when its operating time decrease even though it is fully and correctly charged. Replace the battery pack.

6. Do not recharge the battery pack if it is already fully charged. Doing so may cause the life of the battery pack to shorten or the battery pack may be damaged.
7. Do not charge transceiver while the battery or units were wet. Ought to dry it with cloth before charging, avoid to damage the unit.

Notice: All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

CHARGE OPERATION

If installing battery, the transceiver lights red and three beeps sound each 30 seconds, it means low power, please start to charge the transceiver.

Please use our special charger for battery charging, the charger LED display charger cause.

| LED appears | status |
|--------------|----------------|
| Lights red | charging |
| Lights green | Fully charging |

3 BATTERIES

TO CHARGE BATTERY PACK, PERFORM THE FOLLOWING STEPS:

1. Plug the AC adaptor cable into the adaptor jack located on the rear of the charger.
2. Slide the battery pack or transceiver with a battery pack into the charger.
3. Plug the AC adaptor into AC outlet.
4. Make sure the battery pack contacts are in contact with the charging terminals, the charger LED lights red and charging begins.
5. The supplied charger LED lights green complete charged. Remove it or the transceiver equipped with it from the charger.

Notice:

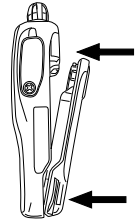
1. The charger LED lights before unplug battery pack, it is normal.
2. When replace a battery pack to charge, please charging after LED is steady.
3. The charger lights red while charging after plug the battery, brights mesns damage battery or the degree is too high or low.

4 PREPARATION

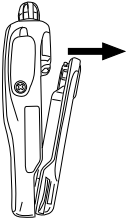
INSTALLING/REMOVING THE BATTERY PACK

The battery pack is not charged at the factory;charge it before use.

1. Match the two bulges of the battery pack with the corresponding guides on the back of the transceiver, then press the battery pack and transceiver firmly together until the release latch on the base of the transceiver locks.



2. While pressing the release latch, pull the battery pack away from the transceiver.



INSTALLING THE 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.

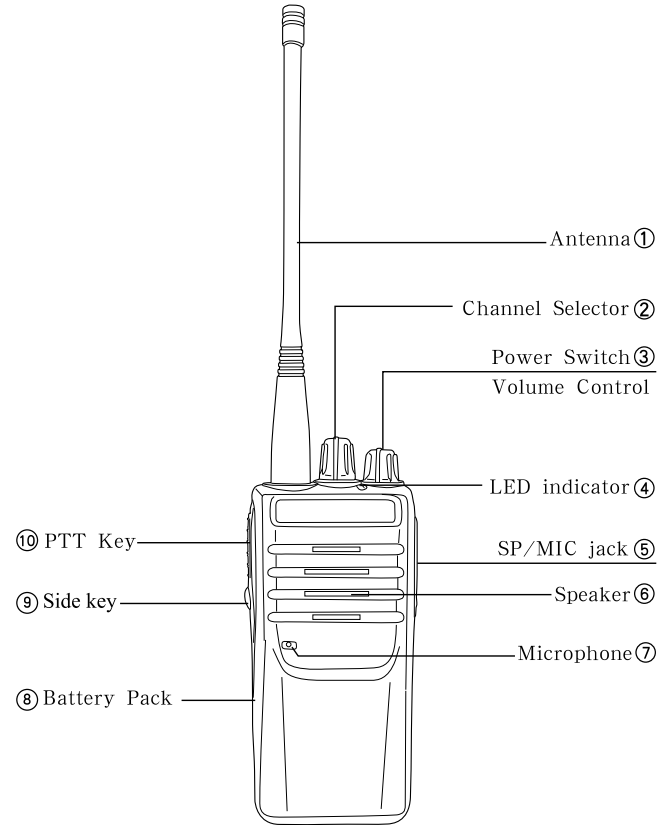
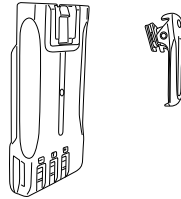
Note: The antenna is neither a handle, a key ring retainer, nor a speaker/microphone attachment point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance.

**INSTALLING THE BELT CLIP**

If necessary, attach the belt clip to the clip slot on the back of the battery pack.

Caution:

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver back panel.



5 GETTING ACQUAINTED

1. Antenna

2. Channel selector

Rotate to select channels 1–16

3. Power switch/Volume control

Turn clockwise to switch ON the transceiver. To switch OFF the transceiver, turn counterclockwise until a click sounds. Rotate to adjust the volume level.

4. LED indicator

Lights red while transmitting. Lights green while receiving a signal. Flashes red when the battery voltage is low while transmitting.

5. SP/MIC jack

6. Speaker

7. Microphone

8. Battery pack

9. Side key

10. PTT(Push-To-Talk) switch

Press and then speak into the microphone to call a station, Release to receive.

6 BASIC OPERATIONS

1. Turn the Power switch/Volume control clockwise to switch the transceiver power ON.

- A beep sounds if enabled by your dealer.

2. Press the key programmed with the Monitor or Squelch Off function to hear background noise, then rotate the Power switch/Volume control to adjust the volume.

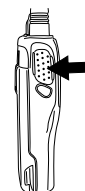
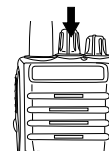
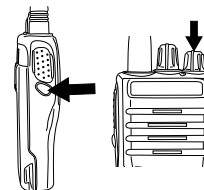
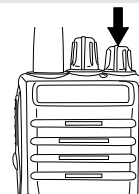
3. Rotate the Channel selector to select your desired channel.

- When you receive an appropriate signal, you will hear audio from the speaker.

4. To make a call, press and hold the **【PTT】** switch, then speak into the microphone using your normal speaking voice.

- Hold the microphone approximately 1.5 inches (3 to 4 cm) from your lips.

5. Release the **【PTT】** switch to receive.



Note: When the battery strength becomes too low, transmission will stop and an alarm tone will sound. See “Low Battery Warning” introduce.

MONITOR/SQUELCH OFF

You can use the Monitor key to listen to weak signals that you cannot hear during normal operation, to deactivate channel signaling, and to adjust the volume when no signals are present on your selected channel.

- Squelch Off Momentary: Press and hold to hear background noise.
Release the key to return to normal operation.
- Monitor Momentary: Press and hold to deactivate QT or DQT signalling. Release the key to return to normal operation.

CALL TONE

Calling tones are used to identify yourself to your party, you can set up a calling tone to one of 16, perform the following steps.

1. Turn OFF power
 2. Press and hold **【CALL】** key, turn ON power
- A calling tone sounds.
 - Adjust channel selector to select desired call tone, select each calling tone, the new tone sounds.
 - Press **【PTT】** key to store new setting and a beep sounds to confirm.
 - Currently channel number appears, please turn the channel selector to adjust appropriate channel number.

VOX

VOX operation allows you to transmit hands-free. and can only be used if you are using a supported headset.

When operating VOX, or you must set a VOX Gain level. This setting allows the transceiver to recognize sound levels. If the microphone is too sensitive, it will begin transmitting when there is noise in the background. If it is not sensitive enough, it will not pick up your voice when you begin speaking. Be sure to adjust the VOX Gain level to an appropriate sensitivity to allow smooth transmission.

VOX GAIN LEVEL INSTRUCTION

Adjust desired VOX sensitivity by turning channel selector, and the number is higher, the sensitivity is higher; Vice versa.

Channel Number:

- 1 — Least sensitive
- 8 — Mid sensitive
- 16 — Highest sensitive

Note: If the VOX Gain level is configured to a higher, louder received signal may cause the transceiver to start transmission.

CHANNEL SCAN

You can scan all the channels what you stored the desired frequencies.

1. Put the channel selector into last channel.
2. Turn OFF the power.
3. Press and hold **【MON】** key and then turn ON the power.
 - Transceiver is in automatically scanning.
 - Press **【MON】** key to pause scanning, release **【MON】** key to resume scanning.
4. Press **【PTT】** switch to transmit or turn OFF the power to cancel scanning function.

Note: Stop 3 seconds when the transceiver receives the signal and without any operation, It will continues to scan.

PRIORITY SCANNING

Sometimes you need to check activities of some priority frequency while monitoring other frequencies. In this case, you can use the Priority Scan function. Priority Scan checks the activities of the Priority Channel every 3 seconds. If the transceiver detects the signal on the Priority Channel, and it will stop 3 seconds, If you do not operate any control or key for 3 seconds, the transceiver returns to the original frequency and continues Priority Scan.

USE PRIORITY SCANNING

1. Put the channel selector into the 16th channel.
2. Turn OFF the power.
3. Press and hold **【CALL】** key and turn ON the power.
 - Transceiver is in the priority scanning.
4. Cancel priority scanning functions, first you should turn OFF the power and then turn ON the power again.

Note: if you don't select a channel as of priority scanning channel while you program the radio by PC, you cannot activity this function.

SIDE KEY

The side key can be defined by programming software.

Short Press:

1. None
2. Monitor
3. Emergency Alarm
4. Scan
5. Priority Scan
6. VOX ON / OFF
7. Power Select
8. Channel Lockout
9. Call Tone
10. Battery Strength Indicator

Long Press:

1. None
2. Monitor
3. Emergency Alarm
4. Scan
5. Priority Scan
6. VOX ON / OFF
7. Power Select
8. Channel Lockout
9. Call Tone
10. Battery Strength Indicator

Dual Standby

There is dual standby feature for this model, each channel can be programmed with two groups of frequencies for receiving, but only the ticked frequency can be used for transmitting.

TDR must be ticked in the software, and then the dual standby feature can be activated.

PTT-ID

PTT-ID is to transmit a set of ID code by pressing & releasing the PTT button.

There are four selections for PTT-ID programming in the software: OFF, BOT, EOT, BOTH

OFF: indicates to turn off PTT-ID

BOT: indicates to press the PTT button to transmit the ID code.

EOT: indicates to release the PTT button to transmit the ID code.

BOTH: indicates to transmit the ID codes by both pressing and releasing the PTT button.

DTMF code

There are 15 sets of DTMF codes programmable by the software.