

## **THANK YOU!**

We are grateful that you chose our radio for your land mobile radio applications.

We believe this easy-to-use transceiver will provide dependable and reliable communication to personal operating at peak efficiency. The transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product!

# CONTENT

<b>FOR YOUR SAFETY</b> .....	01
<b>UNPACKING AND CHECKING EQUIPMENT</b> .....	03
Packing List .....	03
<b>GETTING ACQUAINTED</b> .....	04
Orientation .....	04
LED Indicator .....	05
Battery Capacity Indicator .....	05
<b>PREPARATION</b> .....	06
Assembling the Antenna .....	06
Assembling the Battery Pack .....	06
Assembling the Belt Clip .....	06
Assembling the Accessories .....	06
Charging the Battery Pack .....	07
<b>BASIC OPERATION</b> .....	08
Switch Power On/Off .....	08
Adjusting the Volume .....	08
Selecting a Channel .....	09
Call .....	09
Calls on digital channels .....	09
Calls on analog channels (No Signaling) .....	10
Calls on mixed channels .....	10
<b>ADVANCED OPERATIONS</b> .....	11
<b>TROUBLESHOOTING GUIDE</b> .....	14
<b>CARE AND CLEANING</b> .....	15

# FOR YOUR SAFETY

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user manual for further information.



## SWITCH ON SAFELY

Do not switch the device on when transceiver use is prohibited or when it may cause interference or danger.



## ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



## INTERFERENCE

All wireless devices may be susceptible to interference, which could affect performance.



## SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the device off near medical equipment.



## SWITCH OFF IN AIRCRAFT

Follow any restrictions. Wireless devices can cause interference in aircraft.



## SWITCH OFF WHEN REFUELING

Do not use the device at a refueling point. Do not use near fuel or chemicals.

## FOR YOUR SAFETY



### SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.



### USE SENSIBLY

Use only in the normal position as explained in the product documentation. Do not touch the antenna unnecessarily.



### QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



### ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.



### WATER-RESISTANCE

Your device is not fully water-resistant. Keep it dry.



### BACK-UP COPIES

Remember to make back-up copies or keep a written record of all important information.



### CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user manual for detailed safety instructions. Do not connect incompatible products.

## UNPACKING AND CHECKING EQUIPMENT

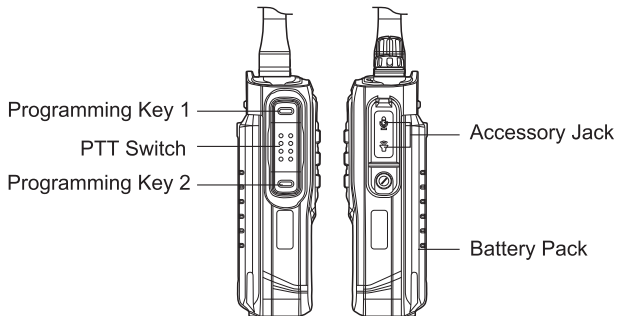
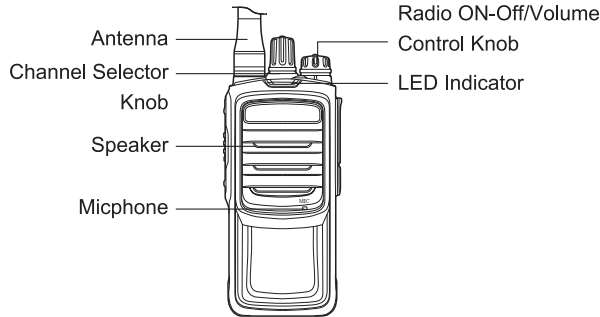
Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

### Packing List

DESCRIPTION	QUANTITY
Unit Transceiver	1
Li-ion Battery Pack	1
Adaptor	1
Charger	1
Rubber Antenna	1
Belt Clip	1
User Manual	1
Hand Strap	1

## GETTING ACQUAINTED

### Orientation



## GETTING ACQUAINTED

### LED Indicator

	LED Indication	Radio status
●	LED glows red	Transmitting with high output power.
☀	LED flashes red	Low power.
●	LED glows green	Receiving.
☀	LED flashes orange	Scanning.
●	LED glows orange	<ul style="list-style-type: none"> <li>• After voice communication ends, you can hold the PTT key to talk while the LED glows orange.</li> <li>• Transmitting with low output power.</li> </ul>

### Battery Capacity Indicator

Upon press the programmed Battery Capacity Indicator key, the transceiver will indicate the current battery level by voice.

Audible Indicator	Battery Level
"4"	High
"3"	Satisfactory
"2"	Low
"1"	Very Low
Please charge the battery	Under the low battery threshold, please charge the battery at once or replace a new battery.

## PREPARATION

### Assembling the Antenna

Caution: Do not swing the radio when holding it by the antenna, so as to avoid lowering the performance and shortening the life span of the antenna.

1. Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base.
2. Turn the antenna clockwise until secure.

### Assembling the Battery Pack

To install the battery pack, fit the extensions on both sides of the battery into the slots on the both sides of the transceiver's aluminum. Slide the battery towards the transceiver's top until a "click" sound is heard.

To remove the battery pack, pull upward the battery latches in the middle of the battery, then slide downward the battery away from the transceiver's body, and lift the battery from the transceiver's body.

### Assembling the Belt Clip

1. Screw the belt clip at the back of battery to assemble.
2. Screw counter clockwise the screws at the back of battery to remove.

### Assembling the Accessories

1. Open the cap of accessory jack.
2. Insert the accessories (such as: earphone/programming cable) plug into the earphone jacks.

## PREPARATION

### Charging the Battery Pack

The battery pack is not charged at the factory, please charge it before use. 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 charge the battery pack as follows:

1. Make sure the battery pack contacts are in contact with the charging terminals.
2. Slide the battery pack or transceiver with a battery pack into the desktop charger.
3. The charging LED lights red and charging begins.
4. After charging about 4 hours, when the light turns to green, it means the battery pack is fully charged.
5. Then you can take off the battery pack or transceiver with the battery pack and use it.

Caution:

- Make sure the radio is powered off before charging and do not use the radio during charging.
- Read the Safety Information Booklet in advance to get necessary safety information.

## BASIC OPERATION

### Switch Power On/Off

1. Power ON: rotate the **[Power On-Off/Volume Control]** knob clockwise until a click is heard.
2. Power OFF: rotate the **[Power On-Off/Volume Control]** knob counter-clockwise until a click is heard.



### Adjusting the Volume

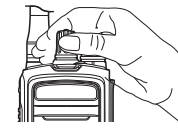
After turning the radio on, rotate the **[Power On-Off/Volume Control]** knob clockwise to increase the output sound volume, or counter-clockwise to decrease it.



## BASIC OPERATION

### Selecting a Channel

There are 48 channels (include analog and digital channel) in 3 groups for selection. Rotate the **[Channel Selector]** knob clockwise to increases the number and counter clockwise to decreases it.



### Call

There are 3 kinds of call mode: calls on digital channels, calls on analog channels, calls on mixed channels. To ensure optimal volume of the receiving radio, hold the palm microphone approximately 2.5 to 5 centimeters away from your mouth.

### Calls on Digital Channels

You can initiate a private call, group call or all call (your radio must be programmed to allow you to use the all call service by your dealer). A call contact for each digital channel may be preset by your dealer.

## BASIC OPERATION

Call	Description	Operation
Private Call	A call made to a private contact.	<ul style="list-style-type: none"> <li>• In standby mode, hold the [PTT] key to transmit a call.</li> <li>• The receivers should be used the same digital channel.</li> <li>• When a call is received, you can listen to it without any operation, and you may hold the [PTT] key within the preset time period to call back.</li> </ul>
Group Call	A call made to the group contacts.	
All Call	A call made to all the contacts on the current channel.	

### Calls on Analog Channels (No Signaling)

You can transmit on an analog channel as the same operation on digital channel.

### Calls on Mixed Channels

In mixed channel mode, both of the signal of digital and analog can be received.

## ADVANCED OPERATIONS

Available features of this radio are listed below. As to the operation of private call group call and calls on analog channels, please refer to the above "Call" chapter. The other features should be programmed as default feature of [PK1] and [PK2] key by the dealers, Please question with the dealer for more operation details.

Feature Type	Description	Detailed Feature
Common Features	Zone	There is a group of channels in each zone, the radio supports 3 zones with a maximum of 48 channels.
	Scan	To scan the list of current channels, a mixed channel between analog and digital channel can't be scanned.
	EMG Alert	Allows you to set up an emergency call with your partner or control center.
	VOX	The feature allows you to transmit hands-free with the transceiver or thru a headset.
	Busy Channel Lockout	This feature will not allow the user to transmit as long as the radio is receiving another signal.

## ADVANCED OPERATIONS

Feature Type	Description	Detailed Feature
<b>Common Features</b>	Time-Out Timer	The feature limits each transmission time and sounds a warning beep if over setting time. If would like to continue for the transmission, please transmit after the preset time.
	Adjust Squelch Level	The squelch suppress the audio output of a receiver in the absence of a sufficiently strong desired input signal. The higher level of squelch, the strong signal will be requested.
	Battery Saver	When the radio standby without any operation over a certain time, battery saver feature will be automatically turned on.
<b>Digital Features</b>	Private Call	A call made to a private contact.
	Group Call	A call made to the group contacts.
	All Call	A call made to all the contacts on the current channel.
	One Touch Call	This feature helps you to initiate a group call or private call to preset ID or contact conveniently.

## ADVANCED OPERATIONS

Feature Type	Description	Detailed Feature
<b>Digital Features</b>	Dual Capacity Direct Mode	This feature allows you to have two voice calls simultaneously from the two time slots.
<b>Analog Features</b>	Call on Analog Channel	In this working mode, only the current analog channel can transmit an analog signal to all channels.
	Squelch Off	This feature allows you to open the noise squelch.
	Monitor	Monitor allows you to open the signaling squelch.
	CTCSS/DCS	A CTCSS/DCS is a sub-audible tone/code which allows you to ignore (not hear) calls from other parties who are using the same channel.



## TROUBLESHOOTING GUIDE

Problem	Solution
No power.	<ul style="list-style-type: none"><li>• The battery pack may be dead, recharge or replace the battery pack.</li><li>• The battery pack may not be installed correctly, remove the battery pack and install it again.</li></ul>
Battery power dies shortly after charging.	<ul style="list-style-type: none"><li>• The battery pack life is finished, replace the battery pack with a new one.</li><li>• The battery pack strength may be too low, please recharge or replace the battery pack.</li></ul>
Cannot talk to or hear other members in your group.	<ul style="list-style-type: none"><li>• Make sure you are using the same frequency and CTCSS/DCS/Color code as the other members in your group.</li><li>• Other group members may be too far away. Make sure you are within range of the other transceivers.</li></ul>
Other voices (besides group members) are present on the channel.	<ul style="list-style-type: none"><li>• Change the CTCSS/DCS/Color code setting. Be sure to change the tone/code on all transceiver in your group.</li></ul>
No voices or only little volume voice.	<ul style="list-style-type: none"><li>• Please make sure to adjust the volume suitable value.</li><li>• Maybe the Mic is out of work, send to the dealers to check.</li></ul>
The noise is too loud.	<ul style="list-style-type: none"><li>• You may be too far away from other members. Move towards other members.</li><li>• If you open the noise squelch, please close it.</li></ul>

## CARE AND CLEANING

To guarantee optimal performance as well as a long service life of your radio, please follow the tips below.

### Radio Care

- Do not pierce or scrape the radio with any edged instruments or hard objects.
- Keep the radio far away from substances that can corrode the electronic circuit.
- Do not hold the radio by its antenna or headset cable directly.
- Attach the accessory jack cover when the radio is not in use.

### Radio Cleaning

- Clean up the dust and fine particles on the radio surface with a clean and dry lint-free cloth or a brush regularly.
- Use neutral cleanser and a non-woven fabric to clean the keys, control knobs and front case after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage. Make sure the radio is completely dry before use.

**Caution:** Power off the radio and remove the battery before cleaning.