



## TWO WAY RADIO USER MANUAL



## Thank You!

Thank you very much for choosing our radios for your communication. This radio is a multifunctional FM handheld Two Way Radio. It combines the latest communication technology and a rugged mechanical framework. Whether you are a professional who needs to keep in touch with the event team (such as pastoral, self-driving, hunting, exhibition, trade fair or hotels) or a casual user who simply wants to communicate with friends and keep in touch with families, this radio will bring convenience to your work, life, and leisure.

Please read all information carefully before using our radio to avoid personal injury or property damage due to improper operation.

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## NOTICE:

Changes or modifications to this equipment without our express permission may void your authority to operate the equipment. Your radio is set up to send a modulated signal at a specified frequency. It is illegal to change or adjust settings beyond the radio limitation. Any adjustments to the radio must be made by a qualified technician.

## WARNING&PRECAUTIONS:

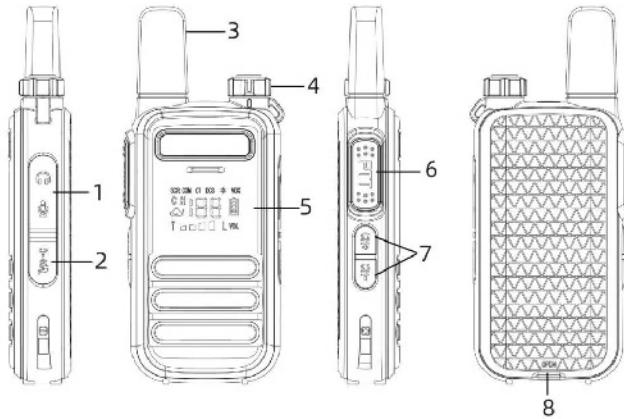
1. Refer service to qualified technicians only.
2. Do not disassemble or modify the radio for any reason.
3. Do not expose the radio under direct sunlight long time or to extremely hot condition.
4. Do not place the radio on the unstable surface.
5. Keep the radio out of dust, moisture, and water.
6. Do not operate the radio or charge the battery pack under explosive conditions.

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## Packing with Walkie Talkie

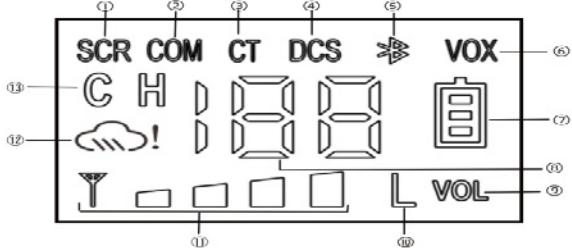
Name	Quantity
Walkie Talkie	1
Battery	1
Power Adaptor	1
Belt Clip	1
Hand Strap	1
User Manual	1

## Button Description



1	Earphone/ Programming Jack	2	Type-C Port
3	Antenna	4	Power/ Volume Switch
5	Screen	6	PTT Button
7	CH+/CH-Key; Sidekey1/2	8	Battery Release Clip

## LED Display



No.	Radio Status	No.	Radio Status
①	Scrambler	⑧	Channel Capacity
②	Comander	⑨	Non
③	CTCSS	⑩	High/ Low Power
④	CDCSS	⑪	Receive Signal
⑤	Bluetooth	⑫	NOAA Weather Indicator
⑥	VOX Indicator	⑬	Channel
⑦	Battery Indicator		

## Preparation

### Charging the Battery

1. Insert the plug of the power adapter into the power socket;
2. Insert the other end of the power adapter into the jack on the back of the charger; (This radio has two charging methods: the Type-C port on the side can be directly plugged into the 5V/1A charging cable for charging.)
3. Insert the battery into the charger correctly.

The indicator light on the charger shows the charging status. When the indicator light turns red, it means charging has started. When the indicator light turns green, charging is complete. The indicator of the charger shows the charger status.

LED Indicator	Status
Red light flashing	Standby (No Load)
Red light on	Charging
Green light on	Charging Complete

### NOTICE:

1. Make sure the radio is turned off before charging and do not use the radio during charging.
2. Please use the charger designated by our company to charge the battery.
3. For the best battery performance, charge for at least 3 hours when charging for the first time.

#### 4. Battery Indicator:

Battery Icon	Battery Status
	High Power
	Middle Power
	Low Power
	Lack of Power

### Assembling the Accessories

#### Assembling the Battery

Turning the back of the radio toward you, pry the back cover and align the positive and negative poles of the lithium-ion battery with the radio then press the battery into the radio.

#### Removing the Battery

Turning the back of the radio toward you, pry up the battery from the bottom recess until the battery is completely separated from the radio.

#### NOTICE:

Before assembling or removing the battery, make sure that the radio is completely turned off by turning the Power/Volume Switch counterclockwise.

#### Assembling Audio Accessories

1. Lift the accessory interface cover;
2. Align the accessory plug with the accessory interface and push it firmly to the end.

#### NOTICE:

Please assemble accessories correctly otherwise the external headset or radio programming may be affected.

## Basic Operation

#### Switch Power On and Off

To turn on, please turn the Power/ Volume Switch clockwise until you hear a "click"; to turn off the power, please turn the switch counterclockwise until you hear a "click".

#### Adjust the Volume

After power on, turn the Power/ Volume Switch clockwise to increase the volume and counterclockwise to decrease the volume.

#### Select Channel

When the radio is on, short press the **【CH+/CH-】** key to select the channel upward or downward and the voice will announce the corresponding channel.

#### Transmitting and Receiving

Transmitting: After selecting the channel, press and hold the **【PTT】** button. When the red light indicator is constantly on, the radio is transmitting. Then speak into the microphone in a normal intonation.

Receiving: There will be an end of transmitting tone after releasing the **【PTT】** button. The radio is available for receiving. The green light indicator will be on constantly when receiving.

#### NOTICE:

For the best volume of reception, keep the distance between the microphone and your mouth at 2.5 cm to 5 cm when transmitting.

## Function Introduction

### Crack & Copy Frequency via Side Button

**1.Crack:** The radio must be on channel one. Press the 【PTT】 button to turn on the radio and enter the crack mode. You can press 【CH+/CH-】 key to select the channel you want to crack and store. After the transmitter transmits the signal, the radio emits a "beep" and the green light will flash. This means the crack is successful. The radio will enter the next channel to crack automatically. Press the 【PTT】 button again will exit the crack mode. The green light will turn off and the channel will return to channel one automatically.

### 2.Wireless Copy:

① Wireless copy transmitter: The radio must be on channel two. Press the 【PTT】 button to turn on the radio and enter the copy transmit mode. You will see the red light turns on and the screen shows a full display. The transmit copy begins when releasing the 【PTT】 button. You need to turn off the radio manually to exit the transmit code.

② Wireless copy receiver: The radio must be on channel three. Press the 【PTT】 button to turn on the radio and enter the copy receive mode. When the receive copy begins, the green light turns on and the screen shows a full display. When the copy is completed, the radio emits a "beep" and restarts automatically. The wireless copy is successful.

#### NOTICE:

Wireless copy must be the two radios of the same model. The one is the wireless transmit state and the other one is the wireless receive state.

### English and Chinese Switch

There are two ways to switch the voice announcement.

- 1.The radio must be on channel fifteen. Long press the 【PTT】 button and 【CH+】 key at the same time to turn on the radio.
- 2.You can select the language of voice announcement on programming software. Operation as follows: Parameter→ VoicePrompt→ select Chinese/ English/ Off

### Monitor

Set any of the side keys to be long pressed as monitor function on the programming software.

### Scan

Set any of the side keys to be long pressed as scan function through the on software.

### Bluetooth

Set any of the side keys to be long pressed as Bluetooth function through the programming software.

#### NOTICE:

When the Bluetooth function is turned on, the icon displays and the red light turns on. The green light is on after connecting through the cell phone APP (Odmaster) . The green light flashes during communication and the light is off when communication is over.

### NOAA Weather Forecast

Set any of the side keys to be long pressed as NOAA weather forecast function through the programming software.

**NOTICE:**

When this function is turned on, the icon of weather appears on the screen.  
When is turned off this function, the icon disappears.

**High/Low Power Selection**

Select high or low power on the programming software. Low power channel has the letter "L" on the screen. High power does not have.

**Technical Specification**

General	
Frequency Range	UHF: 400~480MHz
Channel Capacity	16/22 (Optional)
Channel Spacing	W: 25kHz; N: 12.5kHz
Operation Voltage	DC 3.6V
Battery Capacity	1000mAh Li-ion
Operating Temperature	-20 ~ +60°C
Frequency Stability	±2.5PPM
Antenna Impedance	50Ω
Standby Current	≤ 20mA
Dimension (with Antenna)	135×55×20
Weight (with Battery and Antenna)	103g

Transmitter	
Carrier Frequency Tolerance	± 2.5PPM
Carrier Output Power	≤ 2W
Modulation Limiting	W: ≤5kHz; N: ≤2.5kHz
Modulation Characteristics	+ 1 ~ - 3dB(0.3 ~ 3kHz)
Audio Distortion	≤ 5%
Emission Current	≤ 1200mA
Adjacent Channel Power	≥ 70dB
Spurious RF Components	≤ - 36dBm
Occupying Bandwidth	16kHz
Receiver	
Receive Sensitivity	≤ 0.25μV
Audio Power Output	> 0.7W
Audio Distortion	≤ 5%
Audio Response	+ 1 ~ - 3dB(0.3 ~ 3khz)
Co-channel Rejection	≥ - 8dB
Adjacent Channel Selectivity	≥ 70dB
Intermodulation Immunity	≥ 65dB
Spurious Response Immunity	≥ 70dB
Blocking Characteristics	≥ 84dB

## Troubleshooting Guide

Fault description	Failure Cause Analysis	Troubleshooting
Boot failure	The battery may not be installed properly.	Take out the battery and reinstall.
	The battery may be exhausted.	Charge or replace the battery.
	Poor contact due to dirty or damaged contacts on the battery.	Clean the battery contacts. If the problem still cannot be solved, please contact the dealer or the designated maintenance point for overhaul.
Little, intermittent, or no sound when receiving a signal.	Battery voltage is too low.	Charge or replace the battery.
	Low volume	Turn up the volume.
	Speakers are clogged or damaged.	Perform a simple exterior cleaning. If the problem still cannot be solved, please contact the dealer or designated maintenance station for inspection.

Fault description	Failure Cause Analysis	Troubleshooting
Can't talk to members of the group.	Different frequencies or signaling settings are used than other members of the group.	Set the same frequency and signaling as other members of the group.
	Far away from members of the group.	Get as close to members as possible.
There are other talking sounds or noises on the channel.	Interference from co-channel users.	Change to a new frequency point or adjust the squelch level.
	Signaling not set.	Set signaling for all walkie talkies in the group to prevent co-channel interference.
The noise is relatively loud.	Communication distance with members is too long.	Close to members.
	The location is not good, such as blocked by tall buildings, or located in the basement, etc.	After moving to an open and flat place, turn on the radio and try again.
	Affected by the external environment or electromagnetic interference.	Avoid devices that may cause interference.

## **Clean**

1. Please regularly use a clean and dry lint-free cloth or brush to wipe off the dust attached to the surface of the product and the charging pole piece;
2. Radio can be cleaned with neutral detergent and non-woven cloth. Please do not use chemicals such as detergent, alcohol, spray, or petroleum preparations to avoid damage to its surface and shell. After cleaning, please ensure the product is dehydrated, otherwise do not use it.

### **NOTICE:**

Please turn off the radio and remove the battery before cleaning.

## **Maintenance**

1. Do not use hard objects to puncture or scratch this product;
2. Do not store this product in an environment containing substances that corrode electronic circuits;
3. When the accessory is not in use, please cover the accessory interface cover.