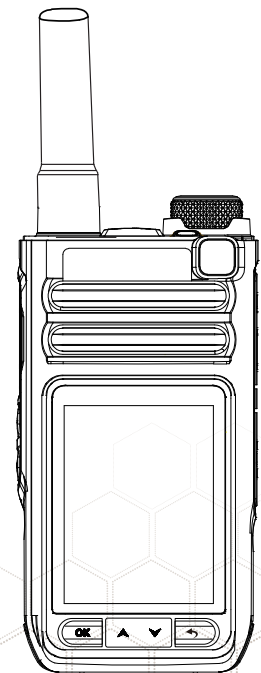# Smart PoC Terminal

NETWORK
USER MANUAL

Preface

Thank you for purchasing this product. To derive optimum performance from the product,please carefully read this manual before use.

Instructions

● The use of the product is subject to the laws and regulations of the countries or regions in which it is used.
● You can only use the original accessories or approved by the manufacturer. Any unapproved accessories may affect the performance of the radio, violate the warranty terms of the radio and the relevant provisions of the national communication terminal products, or even cause personal harm.
● Only by qualified technicians for maintenance.
● Do not charge the radio and battery when they are damp.

Packing List

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.

No.	Items	QTY.
1	Radio	1
2	Battery	1
3	Antenna	1
4	Belt Clip	1
5	Screws	2
6	Power adapter	1
7	User Manual	1

1

Battery Information

● The battery pack is not fully charged when purchased, please charge before the first usage.
● Do not short circuit the battery to avoid damaging the battery, generating heat and causing a fire.
● Do not place the battery at a high temperature area or throw it into a fire to avoid an explosion.
● If the battery is not used for a while, discharge it and store it in dry, dark and cool place.
● Stop using the battery and cradle when it is damaged or significantly aged.
● Return the used batteries to the supplier or to the designated collection point, do not dispose indiscriminately.

If the battery is damaged, avoid touching the contents. If it gets contaminated with the skin, rinse it with plenty of water.
If necessary, ask for medical advice.

Charger Information

To improve charging efficiency and ensure charging safety, please use 100-240V AC.
● Do not short-circuit the charger, or it would cause electric shock, smog, and damage to the charger.
● Do not use the charger when the cable is damaged, or it may cause fire and electric shock.
● Please clean the dust accumulated on the power outlet over time.
● Do not disassemble or modify the charger. It may cause electric shock, file or damage to the charger.
● Do not use the charger in places with high temperatures or it may cause electric shock, fire or damage to the charger.
● Do not touch the charger, battery, or power outlet with wet hands, or it would cause electric shock.
● Do not place heavy objects on the power cable, or attempt to modify the power cable, otherwise, it may cause electric shock or fire.
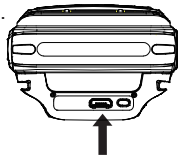
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● Unplug the power plug from the socket before cleaning and maintenance. Hold the charger when pulling the plug. Rough handling of the power cable could damage it and may cause electric shock or fire when in use.

Charging the Battery

There are two charging methods. Please charge the battery with the specified charger cables:
●Charging from the radio charging port
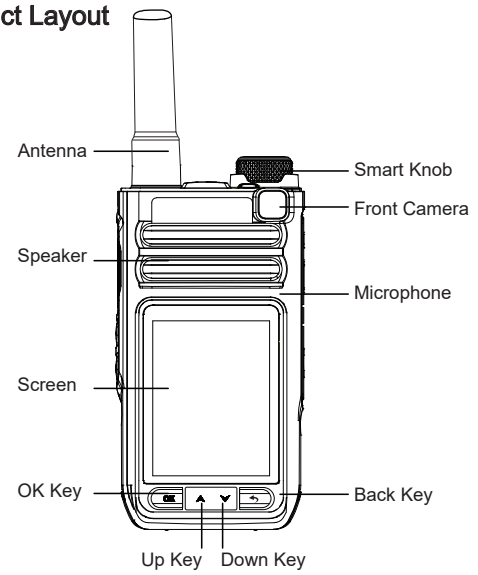1. Insert the Type-C plug of the switching power supply into the Type-C jack on the right side of the radio.
2. Connect the power supply to the AC power output socket. You can see that the radio status indicator (LED) turns red and flash slowly, indicating that the power supply is normally connected; When the status indicator (LED) turns from red to green light and flash slowly, it means fully charged.

Product Overview

1.1Product Layout

Antenna
Speaker
Screen
OK Key
Smart Knob
Front Camera
Microphone
Back Key
Up Key   Down Key

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●Charging from the battery charging port
The battery charging port can support Micro-USB plug to charge the battery. Connect the power supply to the AC power output socket, you can see that the radio status indicator (LED) and battery LED will long bright red light. When LED turns to green light, it means fully charged.

Note: In order not to affect normal charging, please turn off the radio when charging.

Flashlight
Rear Camera

PTT Key
Side Key 1
Side Key 2

Earphone Port
Programming / Charging Port
SIM Card Slot 1

LED Indicator   Battery USB Charging Port
Battery Charging Indicator
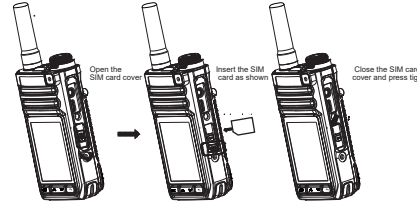
1.2 Key and Knob Functions

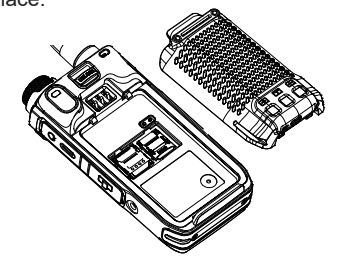| Key	Description
Smart Knob	●Long press for 3 seconds to power on or off. ●Short press to brighten or turn off the screen. ●Rotate to adjust the volume.
PTT Key	●Long press to start a voice call. ●In temporary talking mode, short press to enter temporary group.
Side Key 1	●Short press to broadcast the current group name and enter the Group list. ●Long press to send SOS.
Side Key 2	●Press to enter the camera mode. ●Under Camera mode, press this side key to take photos.
OK key	Press to confirm or access a menu.
Back Key	●Press to return to the upper-level menu. ●In Temporary group call mode, short press to quit temporary group.
Up and Down Key	Press to select the required menu or option upward or downward.

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Installation and Operation

1. Attaching the SIM cards and Micro SD card

This radio can support one Micro SIM card and one Nano SIM card.
1.1 Nano SIM card is on the right side of the terminal. Pull out the SIM Card slot cover, put the Nano SIM card into the slot, the direction of the SIM card should follow the icon shown on the right side.

1.2 Micro SIM card is on the back side of the terminal. Remove the battery and pull out the SIM card slot cover, you will see two slots, the left one is Micro SIM card slot and the right one is SD card slot. Put the SIM card and Micro SD card into the slots and close the cover in place.
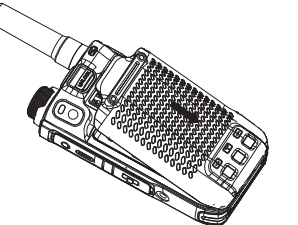

SIM Card Slot 2   TF Card

Note:
● Please turn off the radio before inserting or removing the SIM card.
● Avoid touching the metallic area of the SIM card to prevent loss and damage to the information in the card and place it away from electromagnetic fields.

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2. Installing the Battery

2.1 Hold the battery and align the bottom of the battery against t he bottom of the radio.
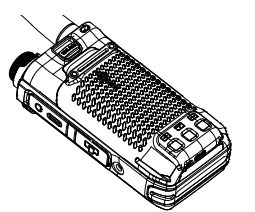2.2 Push the battery downward until the battery is locked.

3. Remove the battery

1. To remove the battery pack, push the battery latch-up.
2. When the battery is released from the terminal, remove the battery.

4. Attaching the Belt Clip

4.1 Line up the holes and inset 2 pcs screws.
4.2 Use the correct and fit screwdriver to tighten clockwise.

5. Attaching the Antenna

5.1 Put the antenna on the antenna connector.
5.2 Rotate the antenna clockwise till hand tight.

⚠ Caution

Do not hold the radio by the antenna and swing it. This may affect the antenna performance and shorten the life span of the antenna.

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6. Attaching the Audio Accessory

Open the cover of the audio accessory connector and insert the audio accessory into the connector.
To ensure optimum waterproof and dustproof performance, close the cover after removing the audio accessory.

Status Indication

1. To know the LCD icons:

No.	Radio Status
📶	The battery level indicator.
ᵧ.ᵢₗ	Indicates the signal strength of the cellular network.
🚫	No SIM card is detected.
📶	Indicates the signal strength of the WIFI network.
✳	The Bluetooth feature is enabled.
✳	A Bluetooth device is connected.
🎧	An audio accessory is connected.
📍	The positioning feature is enabled.
⬆	Video Upload feature is on.

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2. Checking LED Indications

LED Indicator	Items	Terminal Status
Three states: ●Quick flash (1 second once); ●Slow flash (every 3Seconds once); ●Long glow	Power on status	Power on: press the Smart button, the green light is always on for 5 seconds and then off.
	Network status indication	The red light flashes quickly: 1. SIM card is not activated or arrearage, the terminal cannot register to the wireless network; 2. The quality of the wireless network is very poor, the terminal cannot register;
		The red light glows: 1.The SIM card is not installed or the SIM card is installed incorrectly, and the voice prompt "Mobile phone card reading failed"; 2. The device is not configured to be added on the service server. 3. Device has been added, group selector knob group mapping was not successful; 4. SIM card PIN code failed to be unlocked, voice prompt "PIN code error"; 5. When transmitting, glow red light.
		Green light quick flash: Registering network status;
		The green light flashes slowly: the network has been successfully registered and entered the standby state;
	Call status	Single call / Group call / Temporary group: Green light glow.
	Battery capacity Indicator	1. Low battery (≤15%): Yellow light quick flash; 2. Standby: Green light slow flash.

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Basic Operation

1. Power On and Power Off

Press and hold the Smart button for 3 seconds until power ON. The terminal will enter the boot screen, then start the animation. To power off, press one hold the Smart button, a window will pop up on the display and the screen will show "Power off" and "Restart" icons, choose "Power off" to power off the radio.

2. Display off and display on

When the screen is lit up, short press the Smart button to enter the off-screen state otherwise the radio display will automatically switch off after a period of inactivity.
Short press the Smart knob to wake up the display.

3. Adjust the Volume

When the screen is on, the volume can be adjusted by rotating the "Smart knob", rotate clockwise the knob to increase the volume and rotate counterclockwise to reduce the volume. When the volume is adjusted, a prompt box for volume adjustment will pop up on the screen, you can pull the volume bar left and right to adjust the volume. Click to unfold the prompt box to adjust the volume of Media, Ring or Clock.
Note: You can also enter Settings to choose "Sound" to adjust the volume.

4. Control center

On the home screen, slide down from the status bar to open the control center. Slide left or right to display all shortcut switches. You can quickly adjust the screen brightness, turn shortcut switches on or off, check or clear notifications, etc.

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5. Enter the applications list

On the Home screen, slide up from the bottom of the screen to pull out the Apps list, all the applications which you installed will show on this screen. You can pull out the application which you want to the home screen.

6. Connecting to the Internet

You can connect to the Internet by using the cellular network or WLAN network.
●Cellular network
Before enabling data services, ensure that the SIM card has been registered with the carrier's network. When you do not need to use the mobile network, disable the mobile data network in time to save data traffic and prolong the standby time.
To enable/disable moving data, you can:
① Slide down from the status bar to expand all shortcut switches and click "Mobile data" switch.
② Click "Settings" and choose "Network & Internet > Mobile Network". On the SIM card setting interface, click the "Mobile data" switch.

●WLAN
① Slide down from the status bar to expand all shortcut switches and click "WLAN" switch. Select and connect a network from the wireless network list.
② Click and choose Network & Internet > WLAN to enable WLAN. Select and connect a network from the wireless network list.
If it is displayed 📶next to WIFI, enter the network password and select Connect. After the device successfully connects to a wireless network, the network is automatically saved. On the WLAN page, you can click Saved Networks to view, add, or cancel saving records.
Note: On the WLAN page, choose WLAN Preferences > Open Network Notification. The device automatically notifies the device when it detects a wireless network.

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7. Settings

Click ⚙ to view or set: network & Internet, Connected devices, Apps and notifications, Battery Display, Sound, Storage, Security & location, Users & accounts, Accessibility, and System.
Note: Refer to the operation mode of the cellphone.

8. Shared data

●Bluetooth Connection
① Slide down from the status bar to unfold all shortcut switches and click "Bluetooth" switch. Click to unfold the list of paired devices and select an available Bluetooth device from the list to connect.
② Click and choose "Connected Devices > Bluetooth > Enable" to enable Bluetooth. Click "Pair with new device", the device will start to detect automatic. Click the Bluetooth device from the list of available devices and select Pair.
Note: If your open detection setting is turned on, the other party can also search your Bluetooth device.

●NFC (Optional)
The Near Field Communication (NFC) feature allows the radio to recognize nearby NFC-capable devices for fast and secure communications. Devices using NFC technology can exchange data when they are close to each other.
Click and choose Connected Devices > NFC to enable "NFC switch". If the device supports NFC, the Android Beam function is automatically enabled. Two DEVICES that support NFC can share certain application content, such as web pages and contact information, etc.

●USB
A USB cable connects a device to a computer to charge it or transfer data. Click and choose Connected Devices > USB, and select an appropriate USB connection mode.
① Charge this device: The computer can't read data, only charging the device.

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② Transfer files: Transfer files between your device and your computer.
③ Transfer photos (PTP) : Transfer photos between your device and your computer.
④ Use device as MIDI: Play music on your computer.

PoC Service

Push-to-talk over Cellular (PoC) provides direct one-to-one and one-to-many voice communication services over the cellular network.
After the start-up, the radio will automatically enter the default waiting group.

Basic operation of the default PoC application:
1. Start a call

When the screen is on, press the side key1, the radio will announce the current group and enters the group list. Press Up key or Down key to select the previous group or the next group, press OK key to enter the member list, press Up or down key to search for members in the group, and press OK to select or cancel members. If a member has been selected at this time, press PTT key to enter a temporary group call, then press the PTT key to talk with the member, after the intercom, press Back key to enter the original group waiting.

2. Emergency Alarm (SOS)

Long press the side key 1 to send SOS to the dispatching console and online members.
Note: This function would be invalid if the Dispatch Console did not register an alarm number to the radio ID.

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3. Take Photos

When the screen is on, press the side key 2 to enter the photo taking interface. Press the side key 2 again to take photos and save them in the album.

Note:
For more details for the PoC service, please see the PoC Application Guides.

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Troubleshooting

Phenomena	Analysis	Solution
The terminal cannot be turned on.	The battery may be installed improperly.	Remove and re-attach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace thebattery.
The terminal fails to respond to any operations.	Too many applications are running.	Forcibly stop some running applications or restart the terminal.
The keys do not work normally.	The keypad may fail to function temporarily.	Restart the terminal.
	The keypad is broken.	Contact the dealer for customer service.
The LED indicator does not work normally.	The indicator may fail to function temporarily.	Restart the terminal.
	The indicator is broken.	Contact the dealer for customer service.
The LCD does not display any information.	The display may fail to function temporarily.	Restart the terminal.
	The display is broken.	Contact the dealer for customer service.
The terminal fails to connect to the cellular network.	The SIM card fails to function properly or is out of service because of unpaid charges.	Make sure the SIM card functions properly or pay the charges.
	The cellular network is not enabled for the SIM card.	Contact the carrier to enable the cellular network.

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Phenomena	Analysis	Solution
The terminal fails to connect to the cellular network.	Weak Signal.	Make sure the radio is within the network coverage.
During receiving, the voice is weak or intermittent.	The communication signal strength may be weak.	Make sure the radios are within the network coverage.
The volume level may be low.	Increase the volume.	
	The speaker may be blocked.	Clean the surface of the speaker.
The terminal fails to detect the SIM card.	The SIM card may be installed improperly.	Remove and reattach the SIM card.
	The SIM card may suffer from poor contact caused by dirty or damaged metal contacts.	Clean the metal contacts.
The terminalcannot locate your position.	The terminal may not receive signals due to unfavorable position.	Move to an open area and try again.
The battery fails to be charged.	The power adapter plug may suffer from poor contact.	Unplug and re-insert the adapter.
	The data cable connector may suffer from poor contact.	Unplug and re-insert the cable.
	The battery is broken.	Contact the dealer for customer service.

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Safety Precautions

When using the radios, please hold the Device in a correct position as if using a lined telephone. Talk through the microphone and make sure the Device is at an appropriate distance away from your body. Some people may be prone to seizures or dizziness under flashing lights (Such as watching TV). If you have a similar medical history of illness, consult your doctor before using the flash function. Keep the device away from children.

Road safety warnings and precautions

Please follow the relevant traffic safety regulations when driving.

Medical Equipment

Care should be taken when using radio next to certain medical devices such as pacemakers. Keep a distance of at least 20cm between the radio and these medical devices; do not put the radio in your chest pocket. Hold BBGR to the ear at the opposite side of the body where the pacemaker is implanted to reduce potential interference. If necessary, please turn off the radio. If you have any other question, please consult the medical equipment manufacture before using. Some digital radios may interfere with certain hearing aids. If these disturbances occur, contact the hearing aid manufacturer for a solution. If you have any other medical equipment (such as implanted cochlea), consult with the manufacturer to ensure that these devices can shield the surrounding RF signals.
In places with special requirements such as hospitals or recuperation, please pay attention to the restrictions on the use of radios. If necessary, please turn off the radio.

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Your Radio

For best performance, please use original accessories as specified by the factory. Use of any unapproved accessories may affect the radio performance and violate the warranty terms and the relevant national regulations on communication products and may even cause personal injury.
Turn off the devices when cleaning and use a clean Anti-static cloth. Do not use any chemical such as detergent to clean the surface of the device. As the device will generate an electromagnetic field, do not place it near storage media, such as a hard disk.

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