

Inrico

Innovation Rich Communications

SMART MULTI-MODE RADIO



IRC390

USER GUIDE

Please read this instruction book carefully before using and keep this with care.

www.inricosolutions.com

Notes Before Using

Please read the following content carefully. It is very important for radio users to gain general knowledge and risks.

- Do not use the device or charging the battery in any hazardous areas such as gas, dust, steam, etc.
- Please turn off the device while refueling or parking at the gas station.
- Do not disassemble your radio.
- Avoid prolonged time in the sun or placing it near heating appliance.
- Avoid excessive exposure to the extreme dusty, damp and splashing place, or leave it on unstable surface.
- Reparation by professional technicians, do not disassemble by yourself.

Disclaimer

Inrico reserves the right to modify product design and specifications. Inrico assumes no responsibility in the event of printing errors. All specifications are subject to change without notice.

Contents

Unpacking and Device Checking.....	01
Accessories.....	01
Handling Precautions.....	02
Battery Care.....	03
Fully Charge Battery Before Initial Use.....	03
Properly Store Batteries.....	03
Features of Lithium Battery	03
Clean and Maintenance.....	04
Product Overview.....	05
Accessories Installation.....	07
Insert SIM Card	07
Attaching the Battery.....	07
Attaching Headset.....	08
Install Hand Strip.....	08
Basic Functions.....	09
Power On/Off.....	09
User Log-in.....	09
Initiate a Call.....	09
Program.....	09
Status Indicators.....	09
Simple Troubleshooting.....	10
Specification.....	11

Unpacking and Device Checking

Please unpack and take out the device and all accessories carefully, and ensure all lists have been gotten before discarding the cardboard box. If any items are lost or damaged in transit, please contact with our distributors.

Accessories

Items	Number
PoC Radio	1
Lithium Battery	1
Power Adaptor	1
USB Charging Cable	1
Belt Clip	1
Antenna	1
Desktop Charger	1
Hand Strip	1
QR Code Manual	1

Handling Precautions

- **Do not overcharge the battery**

Please stop charging if it can't be fully charged within required time. The battery probably overheats, smokes, bursts or suddenly be on fire due to abnormal charging process. When fully charged or not charged, please disconnect the charger and unplug it from the power outlet.

- **Do not discard battery in a microwave or high pressure container.**

The battery probably overheats, smokes, bursts or suddenly be on fire.

- **Do not expose damaged battery near any fire.**

If the battery is broken, leaking or has an abnormal odor, please remove it from flammable areas immediately. The fluid in the battery is flammable, which may cause smoke and fire.

- **Do not use abnormal battery**

If the battery is with odd smelly, discolored, deformed, etc., please stop charging or disassemble from the device immediately.

- **Please use authorized power adaptor**

To comply with warranty terms and avoid damages, charge the battery using a specified charger for best performance.

Battery Care

Fully Charge Battery Before Initial Use

- Do preserve battery life by switching off a device and removing the batteries when it's not being used, and is not expected to be used for extended periods of time.
- Do practice proper battery storage by keeping batteries in a cool, dry place at normal room temperature.

Properly Store Batteries

- Remove the battery from the device.
- Charge and discharge the battery to 40%-65% if it will not be used for 10 days or more. This can greatly extend the battery life.
- The battery should drop below 65% when it is idle for more than 10 days to prevent it from swelling.
- Store the battery in cool and dry environment that's less than 25°C.

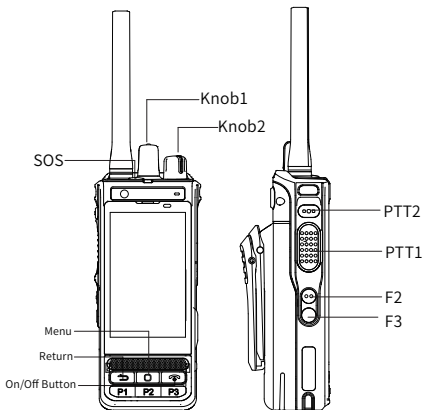
Features of Lithium Battery

- Battery capacity will reduce after multiple charging cycles.
- The battery capacity drops gradually even without being used.
- Longer charging time is required in shady place.
- Charging and storing Lithium battery in warm condition will short its lifespan. Please do not leave them inside the vehicle or near the heater.
- If the battery working time has reduced significantly, please replace the battery immediately in avoidance of fluid leakage.

Clean and Maintenance

- Before cleaning and maintaining the device: please stop running, turn off the device, and disconnect all connections with other equipment.
- When you do not use the radio, please cover the accessories connector.
- When cleaning the dust, please use soft brush and neutral detergent (no strong corrosive chemicals) to wipe it.
- Please keep the equipment and accessories dry.
- Please do not use the microwave oven or hair dryer or other heating devices to dry them.

Product Overview

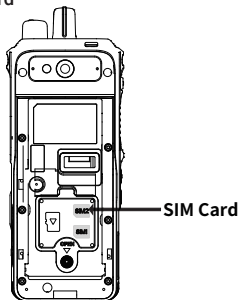


	Action	Function	Remark
PTT1	Long press	Push to PoC talk	The default is PoC and can be switched to DMR; PoC receiving the light is solid green, and transmitting is solid red
PTT2	Long press	Push to DMR PoC	The default is DMR and can be switched to PoC; DMR receiving the light is solid blue, and transmitting is solid red
F2	Short press	PoC/DMR mode switch	The default is PoC
	Long press	Dual transmitting mode switch	Dual transmitting mode is off by default
F3	Short press	Enter recording playback mode, short press F2 to next record; select the recording to play automatically	The most commonly used functions are short press to record the beginning and the end
	Long press	Report current working mode	support customization
Menu	Short press	Main interface: Quickly enter the PoC APP Other interface: Pop-up operation menu	
	Long press	Terminal upload	The system sends a broadcast notification to the APP, and the broadcast key value is determined; customization is supported
OK	Short press	Other interfaces: confirm button	
	Long press	Quickly launch the camera	The system sends a broadcast notification to the APP, and the broadcast key value is determined; customization is supported
Return	Short press	Main interface: Quickly enter the DMR APP Other interface: Return/Delete	
	Long press	Home button, return to the main interface	

	Action	Function	Remark
On/Off Button	Short press	Hang up the phone/Turn off screen, lock keyboard	
	Long press	Turn on and off, Support choosing to close PoC	DMR can continue to use after PoC is closed
SOS	Long press	Initiate PoC and DMR SOS, send PoC call	DMR no SOS call
Knob1	L-rotation	Switch to the previous PoC group	The knob is a stepless knob
	R-rotation	Switch to the next PoC group	
Knob2	L-rotation	Volume down	Volume interface display
	R-rotation	Volume up	

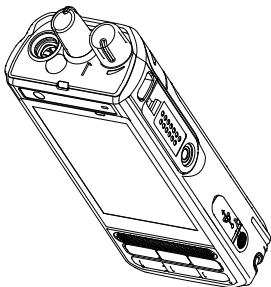
Accessories Installation

1.Insert SIM Card



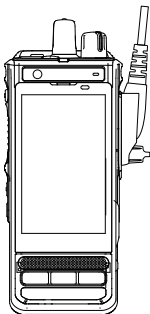
2.Attaching the Battery

- (a)Align the electrical contact of the battery with the rails.
- (b)Press the battery firmly, make sure the electrical connection touch with the bottom.

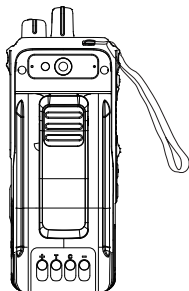


3.Attaching Headset

Open the cover from the top of device to show the headset sockets. Headset will work immediately after being plugged in.



4.Install Hand Strip



Basic Functions

1.Power on/off

- Power On: Long press the power button for 3 seconds and the program will start.
- Power Off: Long press the power button for 3 seconds.

2.User Log-in

After the user log in successfully, user information will be broadcast.

3.Initiate a Call

- Press PTT button and start to talk.
- The LED light is solid red during transmitting.
- The LED light is solid green during receiving.
- If the current network is not online, the red light flashes quickly.
- If occupied when other person is talking, the PTT button is invalid.
- Once the call time exceeds 60 seconds automatically end the call.

4.Program

Use the programming tool, you need to enter the system settings, "Program" to start.

Status Indicators

Working Status	Led Indicator	
	Color	Lasting Time
DMR/PoC Transmitting	Red	Solid Red
PoC Receiving	Green	Solid Green
DMR Receiving	Blue/Green	Solid Supersede
Gateway Status	Red	Flash 1S/time
The network is normal	Green	Flash 5S/time
Login failed / no network status	Red	Flash 1S/time
The battery is low	Red	Flash 3S/time
Low Battery and No Network	Low battery priority is higher	

Simple Troubleshooting

Problems	Solutions
Unable to Power On	• The battery may be incorrectly installed. Re-install the battery. • The battery may be out of power. Charge or replace the battery. • The battery may be in poor contact due to dirt or damage. Clean the electrical contact or replace it.
Terminal Crash	• Too many APPS on processing. Force some programs to quit or restart the terminal.
Buttons Not Working	• The buttons may not work temporarily, restart the terminal. • The buttons are broken, contact the dealer or our company.
White Screen Error	• Display screen may not work temporarily, restart the device. • The display screen is damaged, contact the dealer or our company.
Echo or Noise During Connecting	• The signal may be weak, make sure the terminal is within network coverage. • The speaker may be covered, clean the speaker surface.
Unable to Detect SIM Card	• The SIM card may be incorrectly installed. Remove and re-insert the SIM card. • The SIM card may be not working due to dirt or damage. Clean the electrical contact or replace it.
Unable to Locate	• The signal is weak and the radio can't receive the signal. Move to open and flat area and try again.
Unable to Charge	• The power adapter plug may be damaged or with poor contact. Pull out and re-plug the adapter. • The charging cable connectors may be damaged or with poor contact. Pull out and re-insert the cable.
Shorter Standby Time	• The battery life becomes shorter in high temperature environment. Replace a new qualified battery. • Power consumption increased in areas with weak signal. Please temporarily turn off the device.
Unable to Connect the Network	• SIM card cannot work properly or cannot be used. Make sure the SIM card have balance and not overdue. • Mobile network is not enabled, switch on the SIM card network and contact the network operator to activate the cellular network.

Specification

Operating System	Android 10
Frequency	2G: B2/B3/B5/B8
	3G: B1/B2/B4/B5/B8
	4G TDD-LTE: B38/B40/41
	4G FDD-LTE: B1/B2/B3/B4/B5/B7/B8/ B12 /B17/B20/B26/B28/B66
Support	GNSS
CPU	QM215
Memory	4GB+ 64GB(ROM)
Voltage	7.6V $\pm$ 15%
Screen Size	3.5inch, 480*800
Camera	Front: 5MP / Rear: 13MP, 107° Wide Angle
Battery	3100mAh
Dimension (H*W*D)	162.3*61*38mm (Without Antenna & Belt clip)
Weight	$\approx$ 420g
Working Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 75°C