


# ***Inrico*** **T521** **PoC** **Radio**



## **Inrico T521 PoC Radio User Guide**

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# ***Inrico***

**Inrico T521 PoC Radio**



## FAQs

- **Q: What should I do if the device causes interference?**
  - **A:** If interference occurs, try changing the frequency band or adjusting your location to minimize interference. Ensure no other devices are causing signal disruptions.
- **Q: How do I know if the device is fully charged?**
  - **A:** The device may indicate a full charge on the screen or through LED indicators. Check the battery icon for a complete charge status.

## Unpacking and Device Checking

- Please unbox 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
Poe Radio	1
Lithium Battery	1
Power Adaptor	1
USB Charging Cable	1
Belt Clip	1
Antenna	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 the required time. The battery probably overheats, smokes, bursts, or is suddenly on fire due to an abnormal charging process.
  - When fully charged or not charged, please disconnect the charger and unplug it from the power outlet.
- **Do not discard the battery in a microwave or high-pressure container.**
  - The battery probably overheats, smokes, bursts, or suddenly on fire.
  - Do not expose the 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 odd smelly, discolored, deformed, etc., please stop charging or disassemble the device immediately.
- **Please use an 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 the 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 a cool and dry environment that's less than 25 °C.

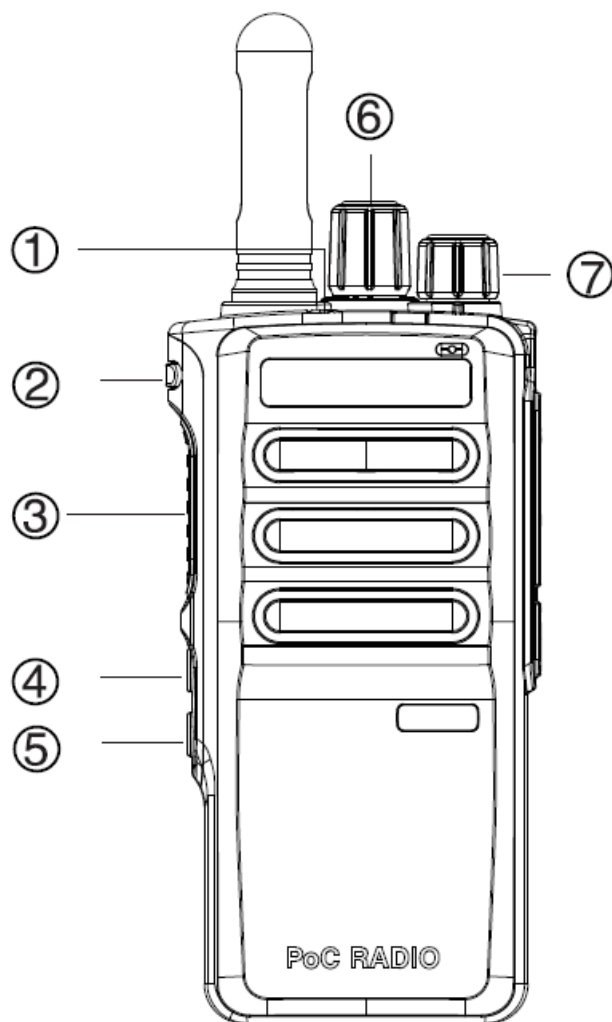
### **Features of Lithium Battery**

- Battery capacity will reduce after multiple charging cycles.
- The battery capacity drops gradually even without being used.
- Longer charging time is required in shady places.
- Charging and storing lithium batteries in warm conditions will shorten their 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 to avoid 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 a 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 hair dryer or other heating devices to dry them.

### **Product Overview**



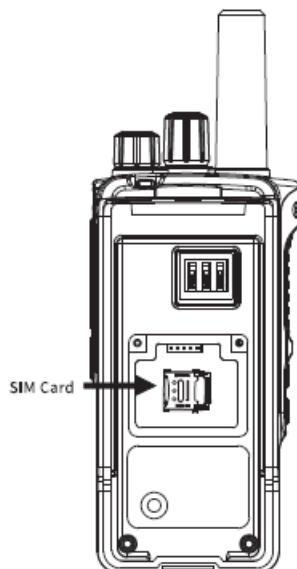
1	SOS
2	F1
3	PTT
4	F2
5	F3
6	Channel Switch Knob
7	Volume Knob

## Function Sheet

Button	Name	Function
	SOS Button	Long press to SOS.
	F1	Short press: Broadcast the current group Long press: Broadcast the current login account name
	PTT Button	Push to talk
	F2	Play group intercom recording.
	F3	Short press: Power broadcast
	Channel Switch Knob	Clockwise rotation: Switches to the next group. Counterclockwise rotation: Switches to the previous group. (With a 16-level rotary knob for group selection)
	Volume Knob	Counterclockwise rotation: Decreases volume, rotate to the minimum for shutdown. Clockwise rotation: Increases volume, powering on in shutdown state.

## Accessories Installation

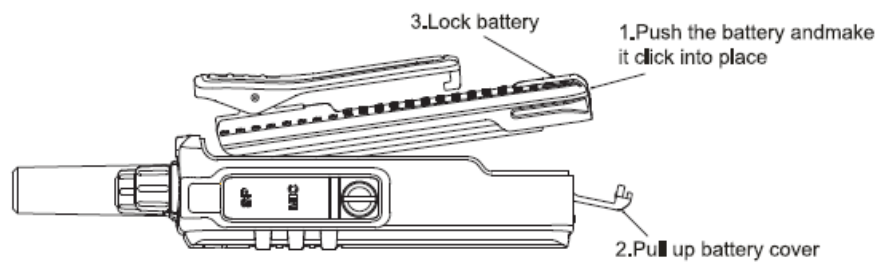
### 1. insert SIM Card



### 2. Attaching the Battery

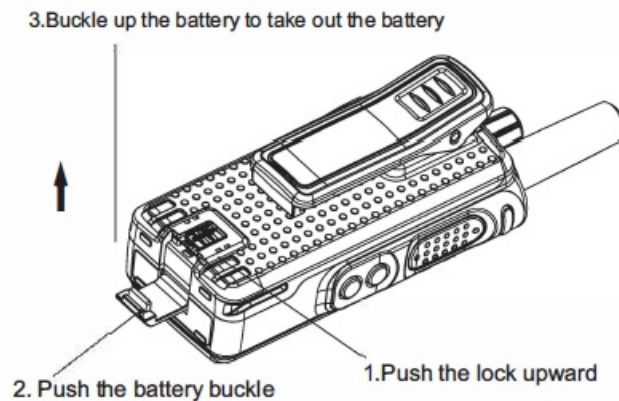
- Insert the battery properly and press down on the other end of the battery. Then Pull up the battery cover

with a "click"



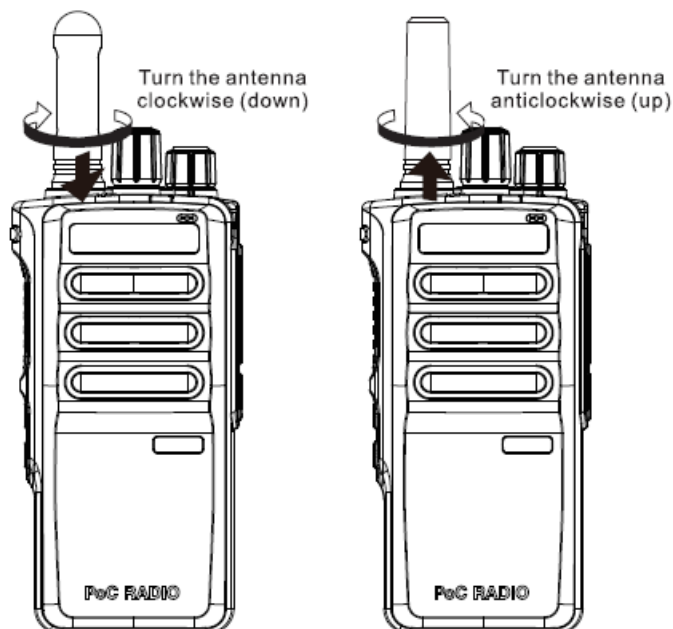
### 3. Removing the battery

- To remove the battery, turn off the radio and push upward the lock catch of the battery. Then push the battery as the arrow pointed and take off the battery.



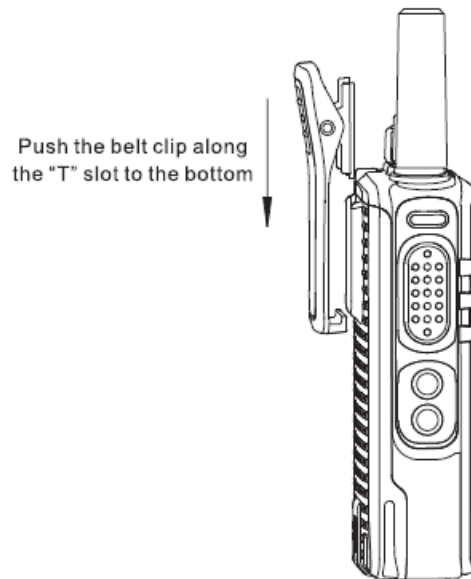
### 4. Installing Antenna

- Screw the antenna into the connector on the top of the radio and turn the antenna clockwise to fasten it.
- Screw the antenna into the connector on top of radio and turn



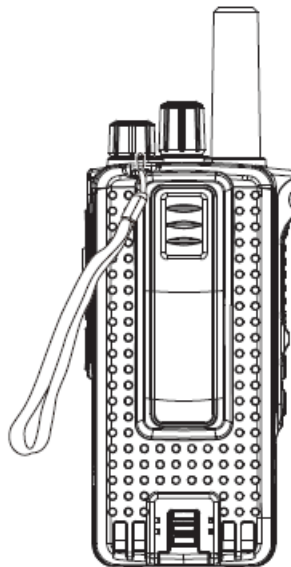
### 5. Attaching/ Removing the Belt Clip

- Push the belt clip along the "T" slot to the bottom.
- Buckle the buckle, the back clip overall upward exit can be.



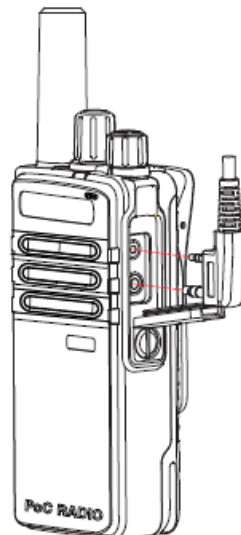
#### 6. Attaching the Hand Strip

- Take the tail of the sling across the oval hole on the back of the handset to install.



#### 7. Attaching the Headset

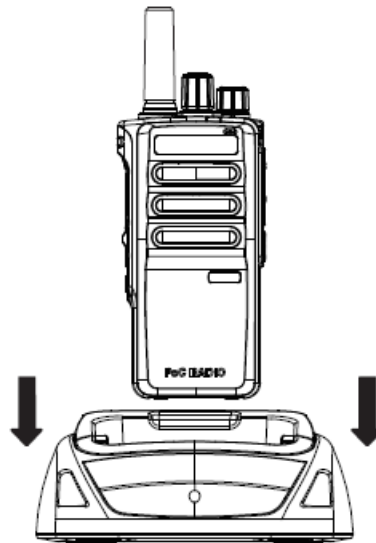
- Open the cover from the top of the device to show the headset sockets. The headset will work immediately after being plugged in.



#### 8. Desktop Charger



- Charging with desktop charger: The charger must be placed on a flat surface away from flammable materials. Aim the radio at the charging port and place it down into the charging port of the charger base according to the instruction diagram.
- The battery does not need to be removed from the radio when charging. Please make sure that the radio is safe when charging in the charger base. Please do not put the radio with battery in the charger base when it is not charging.



## Basic Functions

### • Power On

- Turn the power switch clockwise, and there will be a voice prompt indicating successful power-on. The green light will first stay on, then flash, indicating that it is searching for a network.
- Upon successful network search, there will be a voice prompt.

### • Power Off

- Turn the volume knob/power switch counterclockwise to the lowest position to power off, and the indicator light will go off.

### • Adjusting Volume

- Turn the knob clockwise to increase the volume, and counterclockwise to decrease the volume.

### • Using Headphones

- Insert the provided headphones, press the PTT button on the headphones to initiate a call, and release the PTT button to cancel the call.
- Low battery reminder: when the battery is low, there will be a voice prompt.

### • Voice Playback

- Short press the F2 button to playback the last ten segments in a loop.

### • Group Selection

- When turning on, users need to rotate the group selector to channel 1 (the default starting group is set to channel 1; rotate the knob to change to other groups. If there are no other groups, the system will voice prompt “No Group”).

## Status Indicators

Working Status	Led Indicator	
	Color	Lasting Time
Transmitting	Red	Solid Red
Receiving	Green	Solid Green
The network is normal	Green	Flash 5S/time
Lost network / no network status	Red	Flash 1S/time
The battery is low	Red	Flash 2S/time
When low battery and no network occur simultaneously, the low battery status takes priority.		
<p>During Power On Green light stays on during boot-up, and after completion, it displays a breathing light.</p> <p>During Power Off: The red light stays on during shutdown, and after completion, the red light goes off!</p>		

## Simple Troubleshooting

Problems	Solutions
Unable to Power On	<ul style="list-style-type: none"> <li>• The battery may be incorrectly installed. Re-install the battery.</li> <li>• The battery may be out of power. Charge or replace the battery.</li> <li>• The battery may be in poor contact due to dirt or damage. Clean the electrical contact or replace it.</li> </ul>
Terminal Crash	<ul style="list-style-type: none"> <li>• Too many APPS on processing. Force some programs to quit or restart the terminal.</li> </ul>
Buttons Not Working	<ul style="list-style-type: none"> <li>• The buttons may not work temporarily, restart the terminal.</li> <li>• The buttons are broken, contact the dealer or our company.</li> </ul>
White Screen Error	<ul style="list-style-type: none"> <li>• The display screen may not work temporarily, restart the device.</li> <li>• The display screen is damaged, contact the dealer or our company.</li> </ul>
Echo or Noise During Connecting	<ul style="list-style-type: none"> <li>• The signal may be weak, make sure the terminal is within network coverage.</li> <li>• The speaker may be covered, clean the speaker surface.</li> </ul>
Unable to Detect SIM Card	<ul style="list-style-type: none"> <li>• The SIM card may be incorrectly installed. Remove and re-insert the SIM card.</li> <li>• The SIM card may be not working due to dirt or damage. Clean the electrical contact or replace it.</li> </ul>
Unable to Locate	<ul style="list-style-type: none"> <li>• The signal is weak and the radio can't receive the signal. Move to open and flat area and try again.</li> </ul>
Unable to Charge	<ul style="list-style-type: none"> <li>• The power adapter plug may be damaged or with poor contact. Pull out and re-plug the adapter.</li> <li>• The charging cable connectors may be damaged or with poor contact. Pull out and re-insert the cable.</li> </ul>
Shorter Standby Time	<ul style="list-style-type: none"> <li>• The battery life becomes shorter in high-temperature environments. Replace a new qualified battery.</li> <li>• Power consumption increased in areas with weak signals. Please temporarily turn off the device.</li> </ul>
Unable to Connect to the Network	<ul style="list-style-type: none"> <li>• SIM cards cannot work properly or cannot be used. Make sure the SIM card has a balance and is not overdue.</li> <li>• Mobile network is not enabled, switch on the SIM card network and contact the network operator to activate the cellular network.</li> </ul>

## Specification

OS	RTOS
Frequency	For CE E-GSM 900:880-960MHz DCS 1800:1710-1880MHz WCDMA Band 1:1920-2170MHz WCDMA Band 8:880-960MHz LTE Band 1:1920-2170MHz LTE Band 3:1710-1880MHz LTE Band 7:2500-2690MHz LTE Band 8:880-960MHz LTE Band 20:791-862MHz LTE Band 28:703-803MHz LTE Band 38:2570-2620MHz LTE Band 39: 1880-1920MHz LTE Band 40:2300-2400MHz GPS L1 C/A:1559-1610MHz
CPU	T107
Memory	48MB+128MB
Working Voltage	3.7V
Battery	4800 mAh
Dimension (H*W*D)	124.5*63*39mm
Weight	≈308g
Working Temperature	-20 °C~+55 °C (Stand alone), 0 °C~+40 °C (w ith adap ter).
Storage Temperature	-30°C ~ 70°C

## FCC

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules.

### Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

### IMPORTANT NOTE:

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **ISED Warning**

This product meets the applicable Innovation, Science, and Economic Development Canada technical specifications. This device complies with Innovation, Science, and Economic Development Canada license-exempt RSS standard(s).

### **Operation is subject to the following two conditions:**

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

### **FCC RF Exposure Requirements:**

- For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with accessories supplied or designated for this product.
- Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna.
- Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.
- Hold the transmitter approximately 25 mm from your face and speak in a normal voice, with the antenna pointed up and away.

### **ISED Radiation Exposure Statement**

- For body-worn operation, this model device has been tested and meets the ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the face up minimum distance is 25 mm.

### **Notes Before Using**

- Please read the following content carefully. Radio users need to gain general knowledge and risks.
- Do not use the device or charge 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 a heating appliance.
- Avoid excessive exposure to the extremely dusty, damp, and splashing place, or leave it on an unstable surface.
- Reparation by professional technicians, do not disassemble by yourself.


## Disclaimer

- PTT PRO 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.

## CONTACT INFORMATION

- Inrico Technologies Co., Ltd.
- A1703, Shenzhen National Engineering Laboratory Building,
- No. 20 Gaoxin South 7th Road, Shenzhen, China
- Please read this instruction book carefully before using it and keep this with care.
- [www.inricosolutions.com](http://www.inricosolutions.com).

## Documents / Resources

	<a href="#">Inrico T521 PoC Radio</a> [pdf] User Guide T521, T521 PoC Radio, T521 Radio, PoC Radio, Radio
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## References

- [User Manual](#)

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