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electronics design

## USER'S MANUAL

# TM991

Mobile PoC Radio

- 4G LTE
- SOS function
- 2.4 TFTdisplay
- Dual-SIM
- Sofeware off-line update

## Items in the Package

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

### ACCESSORIES

ITEM	QUANTITY
MOBILE RADIOS	1
PALM MICROPHONE (WITH HANDGER)	1
ANTENNA (LTE & GPS)	1
POWER CORD (WITH FUSE)	1
MOUNTING BRACKET	1
LOCKING KNOB	1
SCREW	10
FUSE	1
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## Product Overview

### Product controls



No.	Part Name	No.	Part Name	No.	Part Name
1	Volume Control Knob & Power Key	9	Down Key	17	GPS Antenna Connector
2	LCD Display	10	Back Key	18	SIM card 2 slot
3	LED Indicator	11	P1 Key	19	SD card slot
4	Speaker	12	Power Inlet	20	SIM card 1 slot
5	SOS Key	13®	External Speaker	21	Bracket Connector
6	Aviation Connector	14	DC Connecto		
7	Menu Key	15	Suction Cup Connector		
8	Up Key	16	LTE Antenna Connector		

## Basic Operations

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**Please check the following two items before using.**

- a. Please make sure the SIM card data service has been activated.
- b. Please make sure the radio has been programmed with the activated platform account and the correct APN information. If not, please contact local dealer for assistance.
- c. Connect the **LTE antenna**, GPS antenna.
- d. Connect the power cord to the radio

### 1. Power on

Press the “Volume Control Knob & Power Key”

### 2. Power off

Long press the “Volume Control Knob & Power Key”

### 3. Transmitting

Press the PTT button to transmit, keep away from microphone 5cm at least.

#### Exception & Talking Priority:

If there is an advanced user starts to talk when you are transmitting, you will be forced to exit the transmitting mode.

### 4. Receiving

The LED indicator lights blue, LCD screen displays the transmitter's name when it is receiving.

### 5. Adjusting the Volume

a. Rotate the “Volume Control Knob & Power Key” to adjust the volume.

b. At the interface of volume adjustment, press “Up Key” or “Down Key” to choose lock or unlock the present volume you adjusted, then press “Menu Key” as confirm.

### 6. Quick Operation

In standby mode, press following Key to enter corresponding function's operation

**Up Key:** choose Group

**Down Key:** choose Member

**Back Key:** history record

**P1:** to get the last caller's positioning information

## Menu Introduction

- Press **MENU** Key to enter menu
- Press “**▲**” or “**▼**” Key to select items
- Press **BACK** Key to back to the previous menu
- Press **MENU** Key to confirm selecting

	Menu	Sub-menu	Function Instruction
Menu	Choose Group		Choose a group, then you can transmit and receive message within the group.
	Friend List		Enter to make private call with the friend(s) that added on platform
	User List		Enter to make private call with the group member(s)
	Dispatcher MSG		Enter to check dispatcher messages
	PTT Records		Enter to check the voice records
	Contacts		Add the phone call contacts list by programming. Into contacts list to choose a phone number to make phone call directly.
	Call Records		Enter to check the telephone calling record, if the radio with telephone function.
	Audio Settings	Sound Quality	Standard / High Quality
		MIC Level	-2/-1/standard/+1/+2
		Roger Beep	ON: A beep when transmitting. OFF: No voice when transmitting.
Advanced Setting	Network Mode	Network Mode	Switch 2G/3G/4G/AUTO
		Dual SIM	SIM 1 / SIM 2 (choose SIM card)
		PWR ON Mode	ACC / KEY (PWR as Power)
		PWR OFF Mode	ACC / KEY (PWR as Power)
		Rotate	Normal / Inverse
	SOS Mode		<b>OFF:</b> Close SOS function. <b>Normal:</b> SOS alarm every 30 seconds and will stop after 3 cycles. <b>HOT MIC:</b> SOS alarm 30 seconds, automatically activates MIC for 10 seconds, then stop for 20 seconds, and it will end after 3 cycles.
		Record Control	OFF/ON
		Time Zone	Choose time zone

		PoC Update	Remote update PoC file
Menu	Settings	Backlight	<p><b>Open:</b> Backlight keeps on.</p> <p><b>Auto:</b> Backlight turns on automatically when operating on keys, transmitting or receiving happens. Backlight off automatically after 10 seconds no operation.</p> <p><b>Key:</b> Backlight on automatically when operating on keys. Backlight off automatically after 10 seconds no operation.</p>
		Brightness	Level options from 1 to 9
		Auto Lock	<p><b>ON:</b> Keypad locked automatically after 10 seconds no operation. Only PTT button and Side Keys can use.</p> <p><b>OFF:</b> Long press Side key 2 for 2 seconds to lock/unlock the keypad manually.</p>
			English/ Simplified Chinese / Traditional Chinese
			<p><b>ON:</b> A beep when operating on keys</p> <p><b>OFF:</b> No voice when operating on keys.</p>
		GPS INF	Enter to check the local GPS information
		Version	Enter to check the software version, network mode, IMEI

## Advanced Functions

### 1. Playback Voice Records

Enter “Record Control” to turn on the PTT records function.

Enter “PTT Records” to check the voice records.

### 2. Multi-members Selective Call

Enter friend or user list, short press “MENU” key to select one or more online friends, press PTT to create temporary group for selective call.

### 3. Monitor Group

Enter group list, short press “P1” key to monitor other group(s). Short press again to cancel.

## AFTERSALES SERVICE

### **Warranty Period**

**Main Unit:** Two years from the date the radio is sold.

### **Accessories:**

Battery, Charger and Adapter: One year from the date the radio is sold.

(It's invalid without the seal of seller.)

### **Free Maintenance**

The seller provides free maintenance for the nature breakups **during the warranty period.**

### **Paid Maintenance**

Under the following conditions, the seller will charge the maintenance fee:

- Warranty claims not made within the Warranty Period.
- The defects are caused by nature disasters.
- The defects occurring from misuse, abuse, accident, corrosion, fire, liquid intrusion, or neglect.
- The defects or damage from improper or unauthorized testing, operation, maintenance, service, repair, installation, alteration, modification, or adjustment.
- Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- The defects that have not been operated in accordance with the procedures described in the operating instructions.
- The defects that have been subjected to unauthorized modifications, tampering, disassembly, use of non-genuine accessories or batteries or repairs (including the addition to our product of equipment which is not supplied or authorized by us) which adversely affect performance of our radio or interfere with our normal warranty inspection and testing of our product to verify any warranty claim.
- Our Product which has had the serial number removed or made illegible.
- Product that has its seal(s) on non-user serviceable components or modules broken.
- Freight costs to the repair depot.
- Product that has been subjected to illegal or unauthorized alteration of the software/firmware in our product.
- Scratches or other cosmetic damage to our product surface that does not affect the operation of our radio.
- Normal and customary war and tear.

**Seller:**  
**Model:**

**Ser. No:**  
**Date:**

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 in accordance with 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 receiver.
- Connect the equipment into 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment . this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20cm between the radiator &you body.