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ComNav

ComNav R50 SinoGNSS Data Collector



INTRODUCTION

This manual is intended for reference purposes only. There may be subtle differences

between the actual product and the images depicted. Please read this manual before using the product.



Install SIM card and SD card.

- Please pay attention to the direction of the slot when inserting the card.
- Inserting a non-standard card may result in damage to the SIM card holder of the device.
- Open the SIM/SD plug first and take out the card tray with the PIN, then you can insert the SIM and SD card.



Restart Device

Holding the power button 2 seconds, choose restart.

Force Device Restart

Holding the power button for over 8 seconds.

Charge

Charging the device before first use is recommended

Note: The charger plugs should be fully plugged into the socket and keep in an easy-to-unplug location.

Safety Information!

- The device is designed for working in a -20C~55C environment, proper storage temperature is -30C~70C, lower or higher temperature would compromise device performance,even cause potential damage to device or battery.
- Charge device in a 5C~35C environment,in case of battery endurance
- Weakness support or responsibility will be undertaken if end user updates the device with a third-party ROM or cracks device's system.

Electromagnetic:

Radiation: The maximum absorption rate of electromagnetic radiation is(SAR)s2.0W/kg. In special cases such as pacemakers, hearing aids,cochlear implants,users should follow the doctor's instructions.

Warning:

- Disassemble the battery.
- Demolition device.
- Repair device in unofficial service.
- Using an uncertified USB cable.
- Put the device into or near microwave oven,fire,or other heat source.

General specification	
Dimensions	229*85*20mm
OS	Android 12
CPU	MT8786 2*2.0GHz A75+6*1.8GHz A55
RAM	4/6/8G
ROM	64/128GB

Camera	Rear camera 13MP AF High brightness LED flash Front Camera 5MP FF
Display	5.46 inch 720*1280,5-point capacitive touch screen
NFC	Supporting agreement ISO14443A/B,ISO15693,13.56MHz NFC reading distance 0~5cm
Battery	7000mAh 3.8V QC PD fast charging
General specification	
Bluetooth	BT5.1(BLE)
Wi-Fi	IEEE 802.11a/b/g/n/ac 2.4G+5G dual frequency
WWAN	FDD-LTE B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B25/B28A/B28B T DD-LTE B34/B38/B39/B40/B41 WCDMA B1/B2/B4/B5/B8 GSM B2/B3/B5/B8 RF bands GSM/WCDMA/FDD LTE/TDD LTE

Interface	
SIM card slot	1 ESIM +1 Nano SIM slot
SD card slot	1 Micro SD card slot
USB	USB TYPE-C interface ,supporting QC PD fast charging 9V2A
Performance	

operate temperature	'-25°C~+60°C
storage temperature	'-40°C~+70°C
Humidity	0~95%
ESD protection	'+16kV Air Discharge, ±8kV Contact Discharge
Protection	1.2m free drop to concrete with 6 sides,IP67
Accessory	
AC adaptor	1
USB cable	1
Quick start guide	1

Warranty Policy

ComNav Technology warrants that the product is free from defects in materials and workmanship during normal use in accordance with the product user manual during the warranty period, and provides warranty services within the warranty period. The Standard Warranty Period last twelve (12) months in respect of the GNSS device, controller and external radio, from the original date of purchase. It may vary according to ComNav Technology authorized dealers.

For Warranty Service, it requires:

1. Valid proof of purchase, receipt or Serial Numbers of products.
2. You are the first purchaser who legally acquired the product from ComNav Technology or its authorized dealers.

This Warranty Policy Does NOT Cover:

1. Damage caused by non-manufacturing factors, because of force majeure, but not

restricted to lighting, high voltage, collision.

2. Damage caused by unauthorized disassembling, repairing, alteration and modification.
3. Damage was caused by improper installation and operation despite the guidance in user manuals.
4. Damage caused by an unauthorized service provider.
5. Damage caused by your improper transportation.
6. Loss of, or damage to, your data and program by a product.
7. The Warranty does not apply to any software or accessories owned by ComNav Technology or third parties, however.

Warranty Card

To ensure your warranty service, please register on the date of purchase on the ComNav Technology Official website -> Support -> Product registration.

Product Name:	_____
Serial Number:	_____
The date of shipment:	_____
Customer Name:	_____
Tel Number:	_____
Address:	_____

- If you experience problems with SinoGNSS products during the warranty period and cannot be fixed by referring to the User Manual, please contact your local dealer or ComNav Technology Support Team for remote problem diagnosis and fixing
- If the device is diagnosed as needing repair, you will be required to fill out a Repair Request, which should be sent to the ComNav Technology service center.
- The Repair Request needs to be filled out on the ComNav Technology Official website -> Support -> Repair Request.

FCC Statement

- 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.

Caution: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Specific Absorption Rate (SAR) information:

- This Data Collector meets the government's requirements for exposure to radio waves.
- The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.
- The standards include a substantial safety margin designed to assure the safety of all

persons regardless of age or health.

- FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types:
- Data Collector has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the phone kept 0mm from the body.
- To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0 mm separation distance between the user's body and the back of the phone.
- The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly.
- The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided.

Frequently Asked Questions

- **Q: What is the warranty period for the product?**

A: The standard warranty period is twelve (12) months from the original date of purchase for GNSS devices, controllers, and external radios.

- **Q: How should I charge the device for the first time?**

A: It is recommended to fully charge the device before initial use. Ensure the charger plug is inserted securely into a socket within the recommended temperature range.

- **Q: Can I use non-standard SIM or SD cards with the device?**

A: It is advised to use standard SIM and SD cards compatible with the device to avoid potential damage to the card holder.


- **Q: What should I do if the device needs to be restarted forcefully?**

A: Hold the power button for over 8 seconds to force a restart of the device.

- **Q: What are the recommended operating temperatures for the device?**


A: The device is designed to operate within a temperature range of -25C to +60C.

Documents / Resources

 <small>SinoGNSS</small> <small>Quick start guide</small>	ComNav R50 SinoGNSS Data Collector [pdf] User Guide R50, R50 SinoGNSS Data Collector, SinoGNSS Data Collector, Data Collector
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References

- [User Manual](#)

 ComNav, Data Collector, R50, R50 SinoGNSS Data Collector, SinoGNSS Data Collector

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