

E200 GNSS RECEIVER

USER GUIDE



V2.0

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Certificate



The device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Contains FCC IDs: 2ABNA-2455A, XMR201903EG25G

Contains IC IDs: 11648A-2455A, 10224A-201903EG25G



This product has been tested and found to comply with European Council Directive 2014/53/EU, thereby satisfying the requirements for CE Marking and sale within the European Economic Area (EEA). Contains a radio module. These requirements are designed to provide reasonable protection against harmful interference when the device is operated in a residential or commercial environment.

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1 Before You Start

Dear customers,



Thank you for purchasing our device. Before you start, please carefully read the following:

- This user guide is for your device only. If the actual situation does not match with the situation in the user guide, the actual situation shall prevail.
- For safety and instructions on how to use this device, please carefully read the precautions, exemptions from responsibility and instructions in the user guide.
- The information in this user guide is subject to change without notice. We reserve the right to change or improve the device as well the content in the user guide without any obligation to notify you. For any questions, please contact us.

1.1 Precautions for Safe Operation

For the safety of your product and prevention of injury to operators and other persons as well as prevention of property damage, please read this part carefully before using your product.

Precautions can be divided into the following types according to the degree of loss or injury in case of negligence or omission:

-  **WARNING:** Precautions requiring special attention. Ignoring this indication may possibly result in death or serious injury to the operator.
-  **CAUTION:** Precautions mainly for informing, such as supplementary instructions and using limitations. Ignoring this indication may possibly result in personal injury or property damage.

1.1.1 Warning

- Please do not disassemble the device. Otherwise, fire or electric shock may occur. Only e-Survey authorized distributors can disassemble or rebuild the device.
- Please do not cover the charger when charging. Otherwise, fire may occur.
- Please do not use wet charger, defective power cable, socket or plug, and power cable not specified by e-Survey. Otherwise, fire or electric shock may occur.
- Please do not put the device close to burning gas or liquid, and do not put it in the fire or high temperature condition. Otherwise explosion may occur.
- Please avoid short circuit of the battery. Otherwise, fire may occur.
- Please avoid disturbance of severe electrostatic discharge. Otherwise, the device may have some degradation of performance like switching on/off automatically, etc.

1.1.2 Caution

- Please put the device firmly on the pole.
- To avoid accidental damage, please only use original supplied parts. Otherwise, damage to the device may occur.
- When transporting, please try your best to lighten libration on the device.
- Please do not touch the device with wet hand. Otherwise, electric shock may occur.
- Please do not arbitrarily stand or seat on the carrying case, or turn over it. Otherwise, the device may be damaged.

1.2 Exemptions from Responsibility

You are expected to follow all operating instructions and regularly check the performance of this device.

We assume no responsibility for any damage and loss of profits caused by the following conditions:

- A faulty or intentional usage or misuse.
- Any disasters, such as earthquakes, storms, floods etc.
- A change of data, loss of data, an interruption of business etc.
- Wrong transport.
- Use of non-original parts.
- Usage not explained in the user guide.

2 E200 at a Glance

The E200 main body is designed with magnesium alloy material to provide durable usage and better heat dispersion and light weight 915 g. And when it's fully charged, it can continuously work for 10h.





2.1 Appearance

The E200 main body is as follows:



2.2 Indicator Light

Through the color of the indicator light, you can know the following:

-  **Satellite status**
 - Off: no receiving satellites.
 - Green: fixed solution.
 - Flashing red: receiving satellites without no solution status.
 - Flashing green: have solution but not fixed.
 - Flashing red and green alternately: the mainboard abnormal.
-  **Datalink status**
 - Green: datalink is ready to start.
 - Flashing green: datalink is transmitting data normally.
 - Flashing blue: light flashes according to the interval with raw data recording enabled.
-  **Bluetooth status**
 - Off: Bluetooth not connected.
 - Blue: Bluetooth connected.
-  **Battery status**
 - Green: battery level 30% - 100%.
 - Flashing green: battery level 10% - 30% (speaker will beep).
 - Flashing red: battery level below 10%.

2.3 Power Button

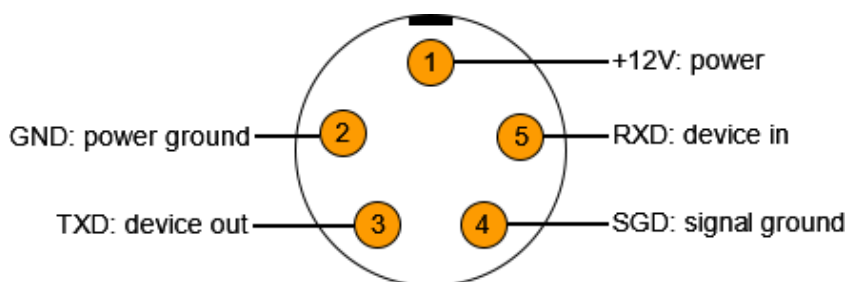
Through the power button, you can achieve the following:

- Power on the receiver: long press the button for 3 seconds and release it. All indicator lights will be on.
- Power off the receiver: long press the button for 3 seconds, release it until you hear the voice *Power off?*, and press the button again.
- Broadcast the current mode: press the button after powering on. The receiver will broadcast the current working mode, including rover, base or static.
- Self-check: to troubleshoot the receiver when the receiver cannot work normally, long press the button for 2 seconds, release it until you hear the voice *Power off?*, and long press the button for 3 seconds until you hear the voice *Self-check*.

2.4 5-pin Port

Through 5-pin port, you can connect an external radio and external power, or output NMEA messages.

Definition of this port is as follows:



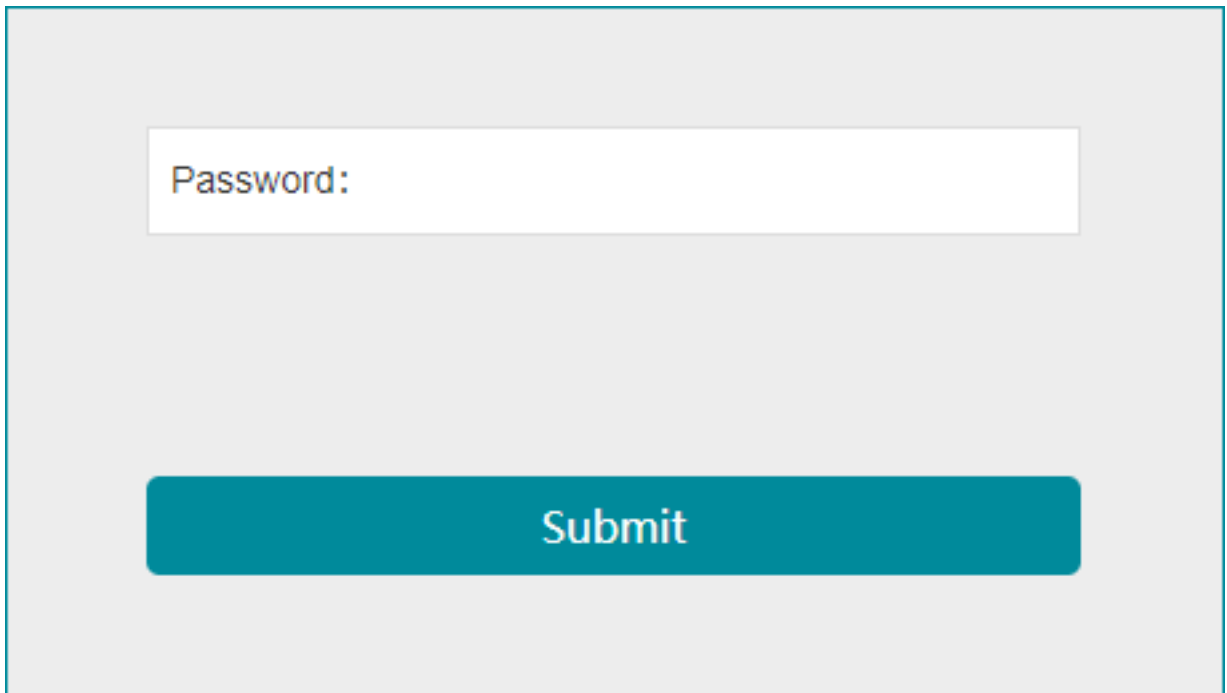
3 Web UI

The receiver WIFI can be used as a hotspot, and you can connect to the hotspot with your PC, smart phone or tablet.

After connecting to the hotspot, you can manage working status, change working mode, configure basic settings, download raw data, update firmware and register device, etc.

Taking the interface of your PC as an example, to enter the Web UI, do the following:

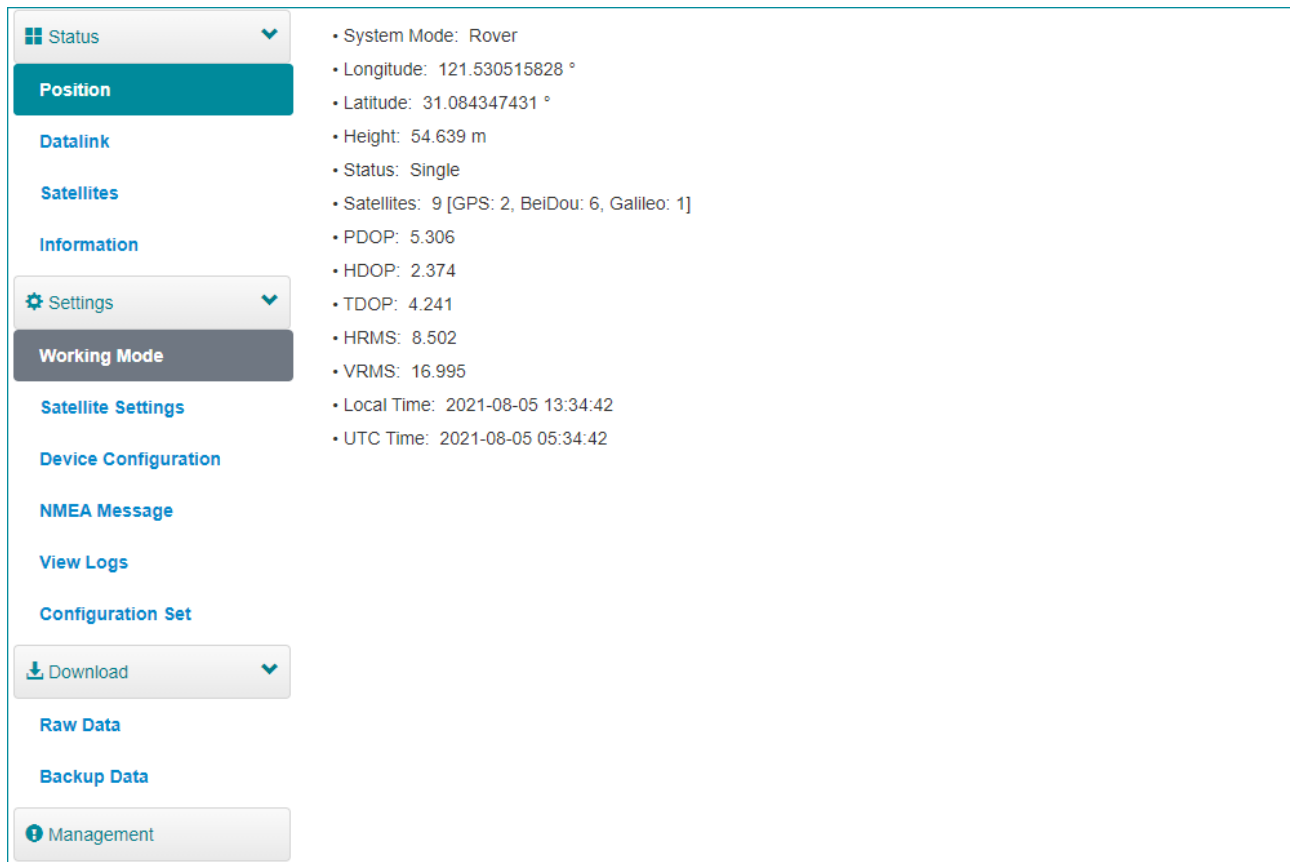
1. Find the receiver WIFI hotspot with your computer.
Hotspot name: the device serial number
2. Open the web browser, and input IP address **192.168.10.1**. The following interface shows:

The image shows a web interface with a light gray background. In the upper-middle section, there is a white rectangular input field with the text "Password:" in a blue font. Below this field, centered horizontally, is a large teal button with the word "Submit" in white text.

3. Enter the password.
Default: password

3.1 Position

In **Position** page, you can view the following, and start and stop recording in static mode:



Category	Value
System Mode	Rover
Longitude	121.530515828 °
Latitude	31.084347431 °
Height	54.639 m
Status	Single
Satellites	9 [GPS: 2, BeiDou: 6, Galileo: 1]
PDOP	5.306
HDOP	2.374
TDOP	4.241
HRMS	8.502
VRMS	16.995
Local Time	2021-08-05 13:34:42
UTC Time	2021-08-05 05:34:42

- System node
- Coordinates: longitude, latitude, and height
- Solution status
- Satellite number
- PDOP
- HDOP
- TDOP
- HRMS
- VRMS
- Local time
- UTC time

3.2 Datalink

In **Datalink** page, you can check the current datalink:

Status

Position

Datalink

Satellites

Information

Settings

Working Mode

Satellite Settings

Device Configuration

NMEA Message

View Logs

Configuration Set

Download

Raw Data

Backup Data

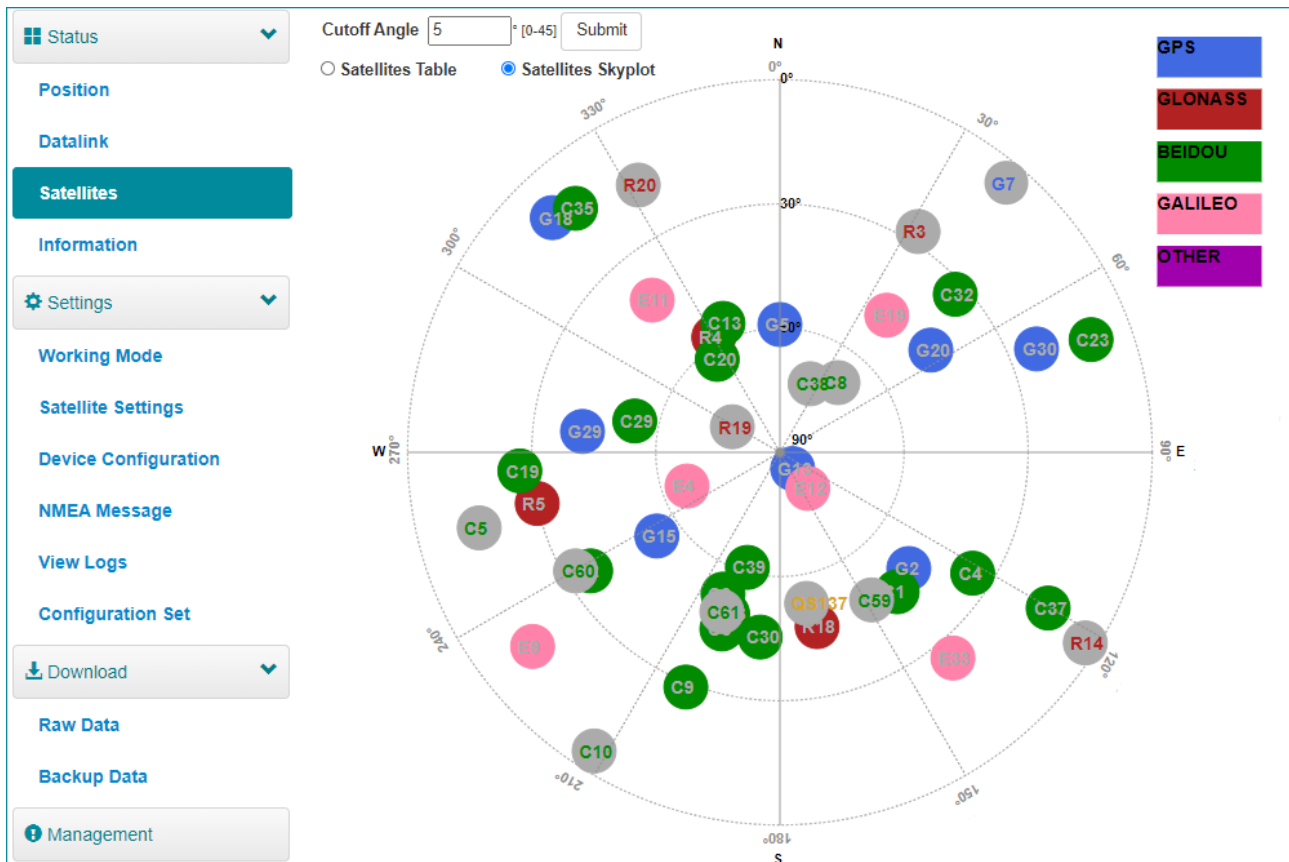
Management

Bluetooth:

• Current Datalink: Bluetooth

3.3 Satellites

In **Satellites** page, you can do the following:



- Set cut-off angle
- View satellites in table or skyplot

3.4 Information

In **Information** page, you can view the following information:

Status

Position

Datalink

Satellites

Information

Settings

Working Mode

Satellite Settings

Device Configuration

NMEA Message

View Logs

Configuration Set

Download

Raw Data

Backup Data

Management

Receiver:
Device Model: E200
Hardware Version: V1.1
Firmware Version: 0.22.210129
MCU Version: 8.75
Battery Power: 91%
Data Memory: Internal Storage Total 6.05 GB; Free 6.01 GB

Antenna:
Antenna Type: ESVE200
H: 430
HL2: 290

GNSS Board:
GNSS Model: P20
GNSS Hardware Version: 1
GNSS Firmware Version: 5.7Au05

Network:
NETWORK Model: EG25-G
Firmware Version: EG25GGBR07A07M2G
Network Provider: Undefined
Signal Level:
Caster Address: :

UHF:
Radio Model: CRM100
Channel: 5 [445.0000 MHz]

Serial No.: E2003A21000017
BOOT Version: 1.12
OS Version: 1.13
Sensor Version: 2.15
Power Source: battery
Manufacture Date: 2021-04-07

R: 760
HL1: 257

GNSS Serial: 19320445
GNSS BOOT Version:

IMEI: 867698044775875
Local IP:
Network Type:
Protocol: NTRIP
Mountpoint: RTCM32

Firmware Version: CRM4.00.01
Radio Protocol: TrimTalk 450S

- Receiver
- Antenna
- GNSS board
- Network
- UHF

3.5 Working Mode

In **Working Mode** page, you can configure the working mode, including base, rover and static:

Status

Position

Datalink

Satellites

Information

Settings

Working Mode

Satellite Settings

Device Configuration

NMEA Message

View Logs

Configuration Set

Download

Raw Data

Backup Data

Management

System Mode

☐ Static
☒ Rover
☐ Base

Current Datalink

☐ UHF
☐ Network
☐ External
☒ Bluetooth
☐ Artk

Record Raw Data

☒ NO
☐ YES

Save

Cancel

3.6 Satellite Settings

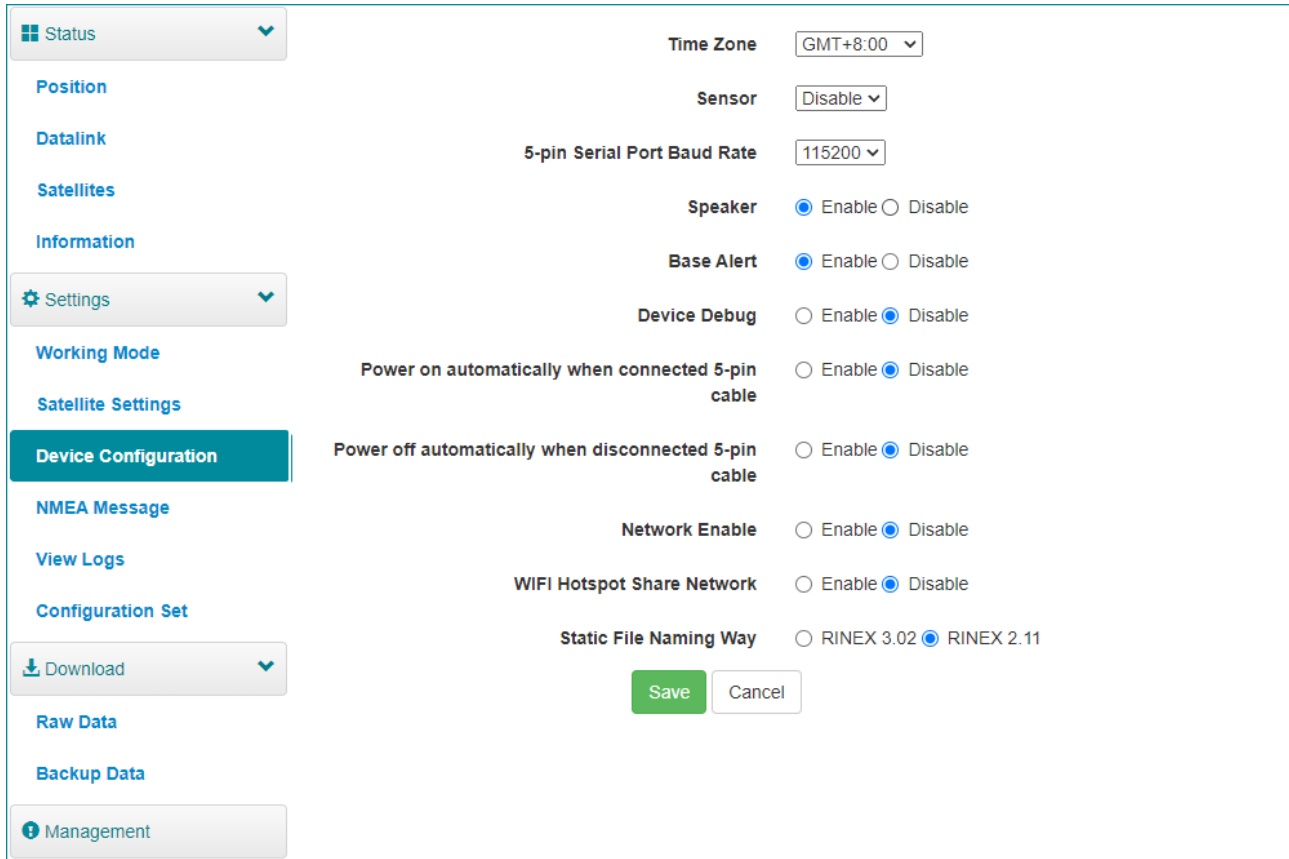
In **Satellite Setting** page, you can do the following:

The screenshot displays the 'Satellite Settings' interface. On the left, a sidebar menu lists various system functions, with 'Satellite Settings' currently selected and highlighted. The main panel on the right contains configuration options for satellite systems. The 'Cutoff Angle' is set to 5 degrees. The 'GPS', 'GLONASS', 'Beidou', and 'GALILEO' systems are all enabled. 'QZSS' and 'SBAS' are disabled. The 'RTK Timeout' is set to 30 seconds. The 'SUREFIX' mode is set to 'NORMAL'. 'Save' and 'Cancel' buttons are located at the bottom of the settings area.

- Configure the satellites to be used, including GPS, GLONASS, Beidou, GALILEO, SBAS and QZSS.
- Set RTK timeout: with Hemisphere L-Band service, high accuracy can be still kept within the set timeout even if correction data loses.
- Set surefix: the Hemisphere technology to increase the reliability of the fixed solution, which means it will be much more difficult to get fixed solution in tough environment.

3.7 Device Configuration

In **Device Configuration** page, you can do the following:



The screenshot displays the 'Device Configuration' page of the e-survey application. The left sidebar contains a menu with items: Status, Position, Datalink, Satellites, Information, Settings (expanded), Working Mode, Satellite Settings, **Device Configuration** (selected), NMEA Message, View Logs, Configuration Set, Download, Raw Data, Backup Data, and Management. The main content area shows the following settings:

- Time Zone:** GMT+8:00 (dropdown)
- Sensor:** Disable (dropdown)
- 5-pin Serial Port Baud Rate:** 115200 (dropdown)
- Speaker:** ☒ Enable ☐ Disable
- Base Alert:** ☒ Enable ☐ Disable
- Device Debug:** ☐ Enable ☒ Disable
- Power on automatically when connected 5-pin cable:** ☐ Enable ☒ Disable
- Power off automatically when disconnected 5-pin cable:** ☐ Enable ☒ Disable
- Network Enable:** ☐ Enable ☒ Disable
- WIFI Hotspot Share Network:** ☐ Enable ☒ Disable
- Static File Naming Way:** ☐ RINEX 3.02 ☒ RINEX 2.11

At the bottom right, there are 'Save' and 'Cancel' buttons.

- Set time zone.
- Select whether to enable IMU sensor data output.
- Set 5-pin serial port baud rate.
- Select whether to enable speaker (smart voice broadcast).
- Select whether to enable base alert.
- Select whether to enable device debug.
- Select whether the power is on automatically when 5-pin cable is connected.
- Select whether the power is off automatically when 5-pin cable is disconnected.
- Select whether to enable network.
- Select whether to enable WIFI hotspot share network: with a SIM card inserted and it enabled, the device connected to the hotspot of the receiver (PC, smart phone or tablet) can surf the internet by using SIM data.
- Set naming method of static files.

3.8 NMEA Message

In **NMEA Message** page, you can do the following:

Status ▼

Position

Datalink

Satellites

Information

Settings ▼

Working Mode

Satellite Settings

Device Configuration

NMEA Message

View Logs

Configuration Set

Download ▼

Raw Data

Backup Data

Management

Output General

GGA: 1HZ ▼ ZDA: 1HZ ▼ GEDOP: Off ▼

GSA: 1HZ ▼ GSV: 5S ▼ GEREf: 5S ▼

GST: 1HZ ▼ VTG: 1HZ ▼ GESNR: 5S ▼

RMC: Off ▼ GLL: Off ▼ GEVCV: 1HZ ▼

Auto output GNSS PPP message ☒ Enable ☐ Disable

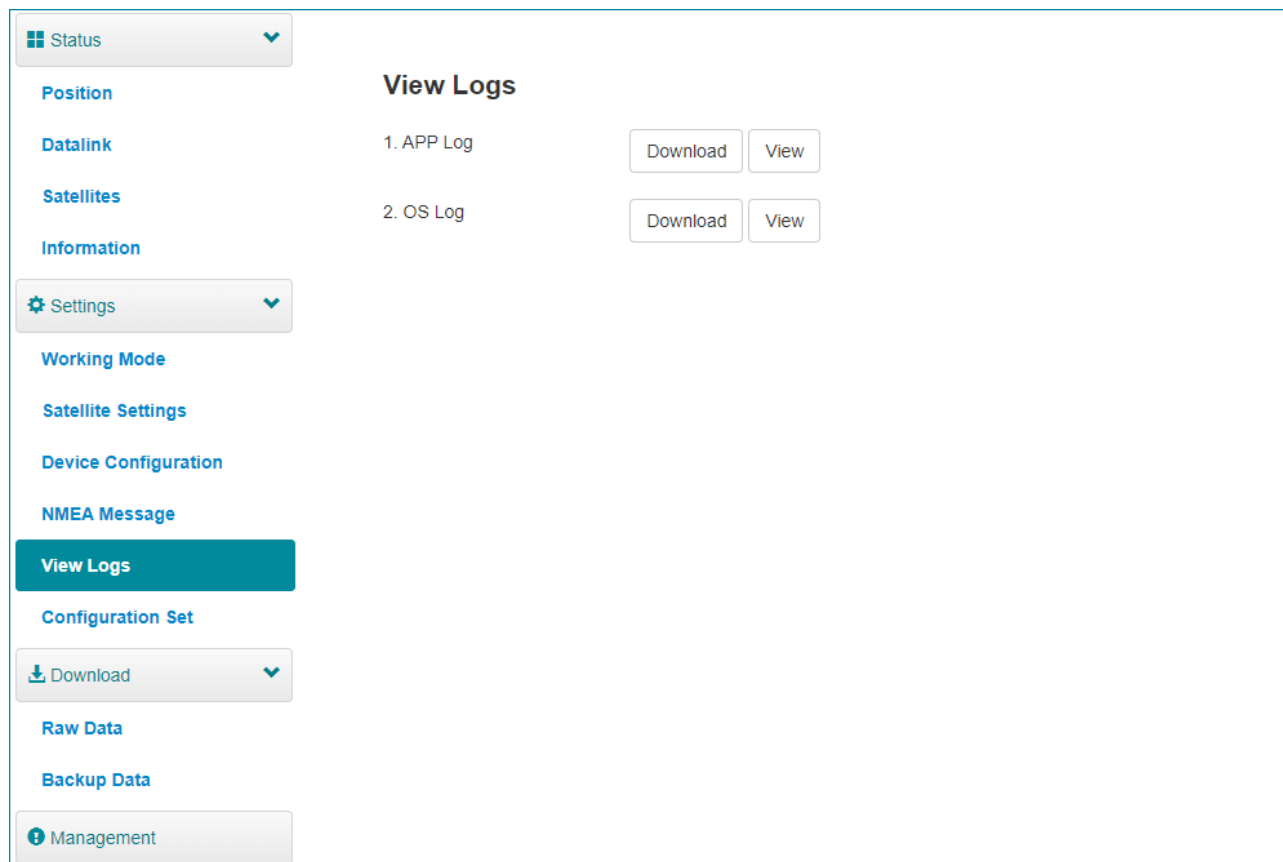
External Port Output NMEA ☒ Enable ☐ Disable

Save **Cancel**

- Configure NMEA data output through Bluetooth or 5-pin port.
- Select whether to enable automatic output GNSS PPP message.
- Select whether to enable external port output NMEA.

3.9 View Logs

In **View Logs** page, you can do the following for troubleshooting:



The screenshot shows the 'View Logs' interface. On the left, a sidebar contains various menu items. The 'View Logs' item is currently selected and highlighted in teal. The main area shows a list of logs. The first log is '1. APP Log' and the second is '2. OS Log'. For each log, there are two buttons: 'Download' and 'View'.

- View App logs and OS logs.
- Download files of App logs and OS logs.

3.10 Raw Data

In **Raw Data** page, you can do the following:

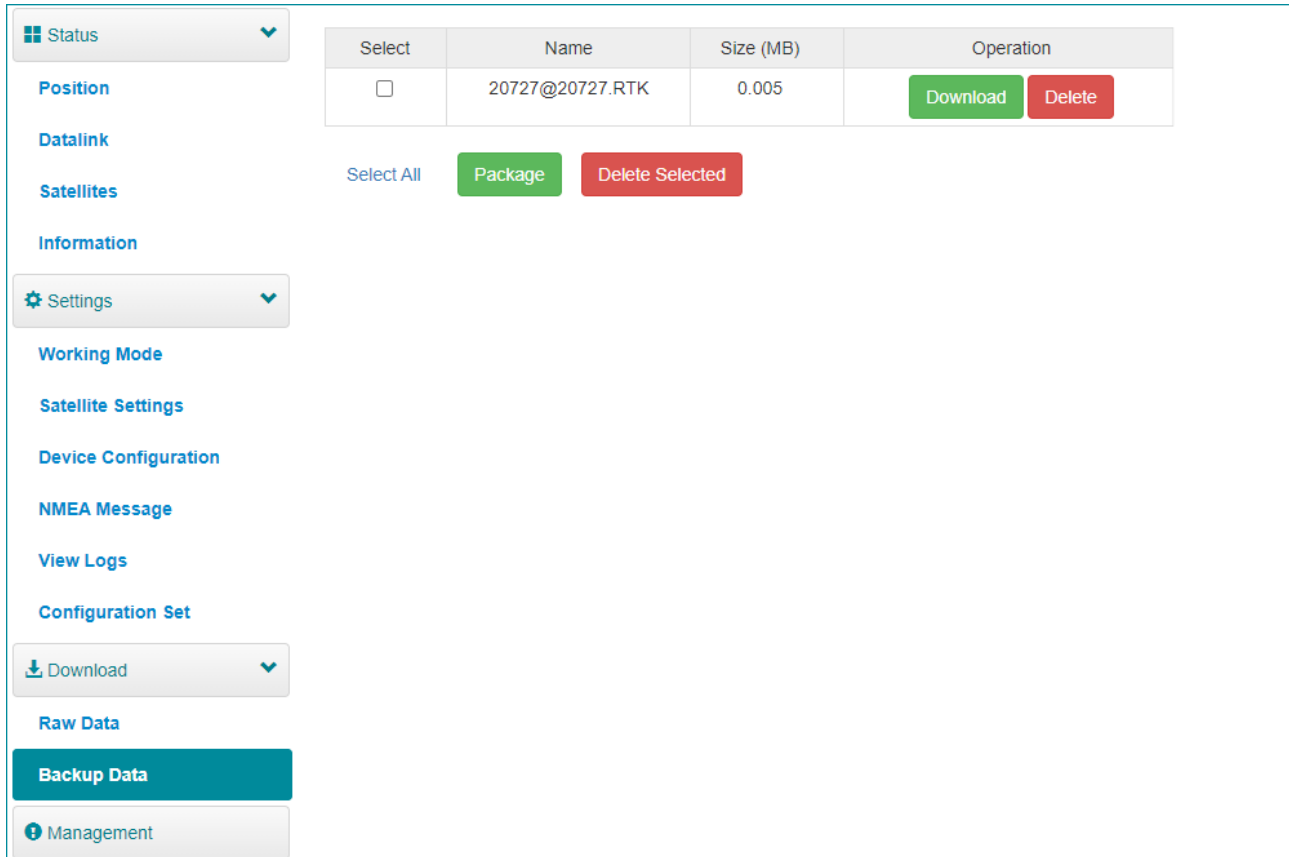
Status	Select	Name	Size (MB)	Antenna Height (m)	Start Time	End Time	Operation		
Position	<input type="checkbox"/>	20210730152058.nmea	0.045	-	-	-	Download	Delete	
Datalink	<input type="checkbox"/>	20210730152255.nmea	5.708	-	-	-	Download	Delete	
Satellites	<input type="checkbox"/>	20210803135050.nmea	14.768	-	-	-	Download	Delete	
Information	<input type="checkbox"/>	20210804091527.nmea	32.066	-	-	-	Download	Delete	
Settings	<input type="checkbox"/>	20210805090250.nmea	8.76	-	-	-	Download	Delete	
Working Mode	<input type="checkbox"/>	P0012101.dat	0.234	1.500	2021-07-29 17:30:46	2021-07-29 17:32:29	Convert	Download	Delete
Satellite Settings								Edit	
Device Configuration	<input type="checkbox"/>	P0022101.dat	1.142	1.500	2021-07-29 17:33:59	2021-07-29 17:41:36	Convert	Download	Delete
NMEA Message								Edit	
View Logs	<input type="checkbox"/>	P0022102.dat	0.316	1.500	2021-07-29 17:42:50	2021-07-29 17:45:03	Convert	Download	Delete
Configuration Set								Edit	
Download	<input type="checkbox"/>	P0022111.dat	19.197	1.500	2021-07-30 11:28:05	2021-07-30 13:38:19	Convert	Download	Delete
Raw Data								Edit	
Backup Data	<input type="checkbox"/>	selftest.log	0.001	-	-	-	Download	Delete	
Management	<div> Select All Package Delete Selected </div>								

- Download raw data and NMEA data.
- Convert data to RINEX format.
- Download multiple files by checking the target files and clicking **Package**.

3.11 Backup Data

The points collected in SurPad software will be automatically backed up in receiver storage to avoid data loss. You can download the data for later use.

In **Backup Data** page, you can do the following:



The screenshot shows the 'Backup Data' page in the e-survey software. On the left is a sidebar menu with options: Status, Position, Datalink, Satellites, Information, Settings, Working Mode, Satellite Settings, Device Configuration, NMEA Message, View Logs, Configuration Set, Download, Raw Data, Backup Data (highlighted), and Management. The main area displays a table with columns: Select, Name, Size (MB), and Operation. The table contains one row with the name '20727@20727.RTK' and a size of '0.005'. Below the table are buttons for 'Select All', 'Package', and 'Delete Selected'. The 'Operation' column for the table row contains 'Download' and 'Delete' buttons.

Select	Name	Size (MB)	Operation
<input type="checkbox"/>	20727@20727.RTK	0.005	Download Delete

Below the table, there are three buttons: Select All, Package, and Delete Selected.

- Download point data.
- Delete point data.

3.12 Management

In **Management** page, you can do the following:

<div>Status</div> <div>Position</div> <div>Datalink</div> <div>Satellites</div> <div>Information</div> <div>Settings</div> <div>Working Mode</div> <div>Satellite Settings</div> <div>Device Configuration</div> <div>NMEA Message</div> <div>View Logs</div> <div>Configuration Set</div> <div>Download</div> <div>Raw Data</div> <div>Backup Data</div> <div>Management</div>	Install New Firmware ? <div>Choose File No file chosen Upload File</div>
	Registration Expire Date: 20211025 Function: L1+L2,GPS+Glonass+BeiDou+Galileo,50Hz,TiltOn AuthCode: <input type="text"/> Submit
	GNSS Registration GNSS Functionality: 564;0;00/00/2000;8;OPT=;10Hz;RTK;L2_L5;MULTI_GNSS;HEADING;ATLAS_LBAND;China_Only AuthCode: <input type="text"/> Submit
	Security <input checked="" type="checkbox"/> Enable Login Authentication Old Password: <input type="text"/> New Password: <input type="text"/> Confirm Password: <input type="text"/> Change <input type="checkbox"/> Enable WIFI Connect Authentication The length of the wifi password must be greater than 7. Change
	Format Internal Disk OK Self Test OK Restore Factory Settings OK Reset OK

- Install new firmware.
- Register the device.
- Register the GNSS.
- Set security: to set password of web UI (192.168.10.1) and receiver WIFI.
- Format the internal disk.
- Do self-testing.
- Restore factory settings.
- Reset: to restart the receiver.

4 Basic Operations

It introduces basic process of starting working with the device.

4.1 Insert a SIM Card

The device supports network working mode.

To insert a SIM card, open the cover of nano SIM and insert a SIM card.

4.2 Charge the Battery

The device is equipped with Type-C charger which supports maximum 45W PD quick charge.

It takes 4 hours to fully charge the battery:

- Red indicator: the battery is in charging.
- Green indicator: the battery is fully charged.

To charge the battery, open the cover of type-C, and connect one end of the cable to the type-C interface and another end of the cable to the charger.

4.3 Connect to the External Power

Power supply from 5-pin port is supported, and the external battery within 9-28VDC is required.



CAUTION: It is not used for charging. Please use the original cable provided by us or cable with LPS standard.

To connect to the external power, open the cover of 5-pin port and connect one end of the cable to the 5-pin port and another end of the cable to the external battery.

4.4 Install the Radio Antenna

The antenna is required when the datalink is set to internal radio.

To insert radio antenna, open the cover of UHF radio, and install the radio antenna.

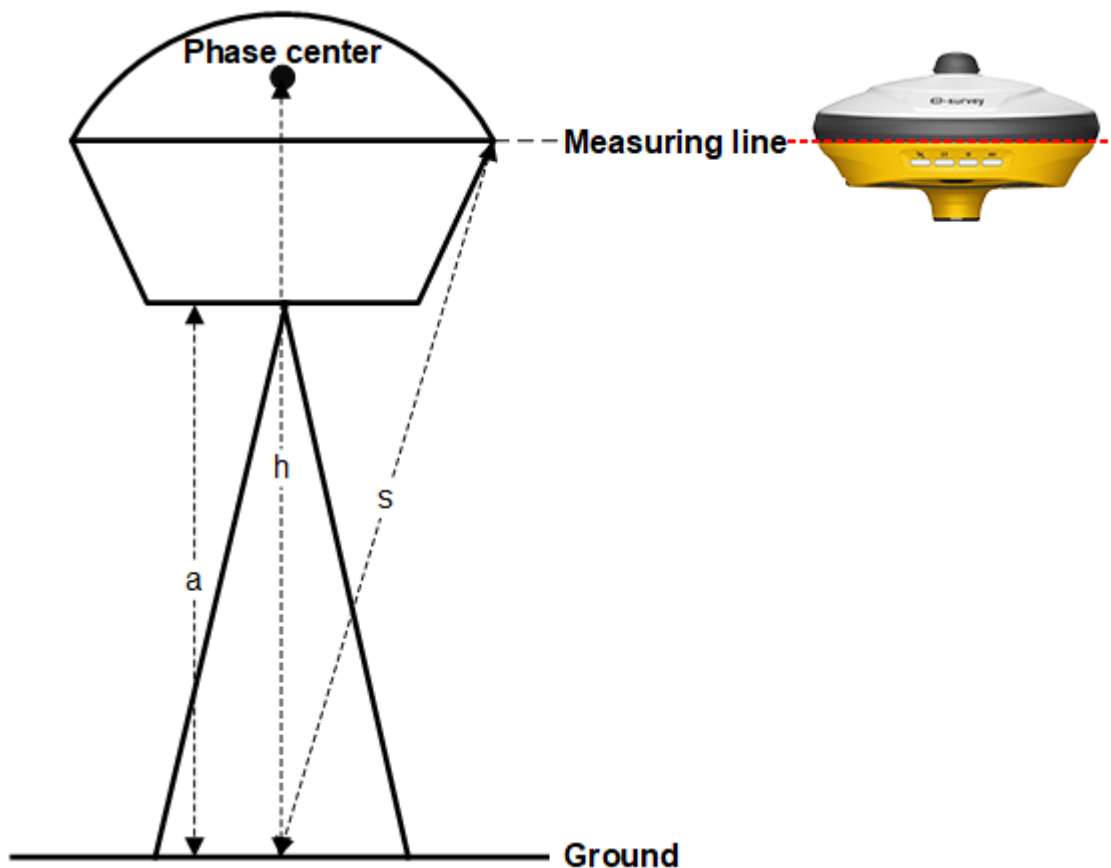
4.5 Measure Antenna Height

Antenna height refers to the vertical distance between the phase center and the ground. Since the antenna height cannot be directly measured, it is automatically calculated by SurPad software based on the measured height you input and measurement type you select.



CAUTION: No matter what the value of measured height you input and what kind of measurement type you select, the value of antenna height is unique.

The principle is as follows:



- **h**: the vertical height from the phase center to the ground.
- **s**: the slant height from the measuring line to the ground.
- **a**: the pole height, that is, the vertical height from the ground to the device bottom.

To measure antenna height, do one of the following:

- Set the measured height to the slant height and measurement type to slant height.
- Set the measured height to the pole height and measurement type to pole height.

The SurPad software automatically calculates the antenna height.

4.6 Start Tilt Measurement

The device can support both E-bubble and IMU, which is determined by the activation code and service you purchase, but you cannot use both of them at the same time.


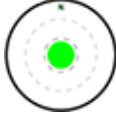
4.6.1 Start E-bubble Tilt Measurement

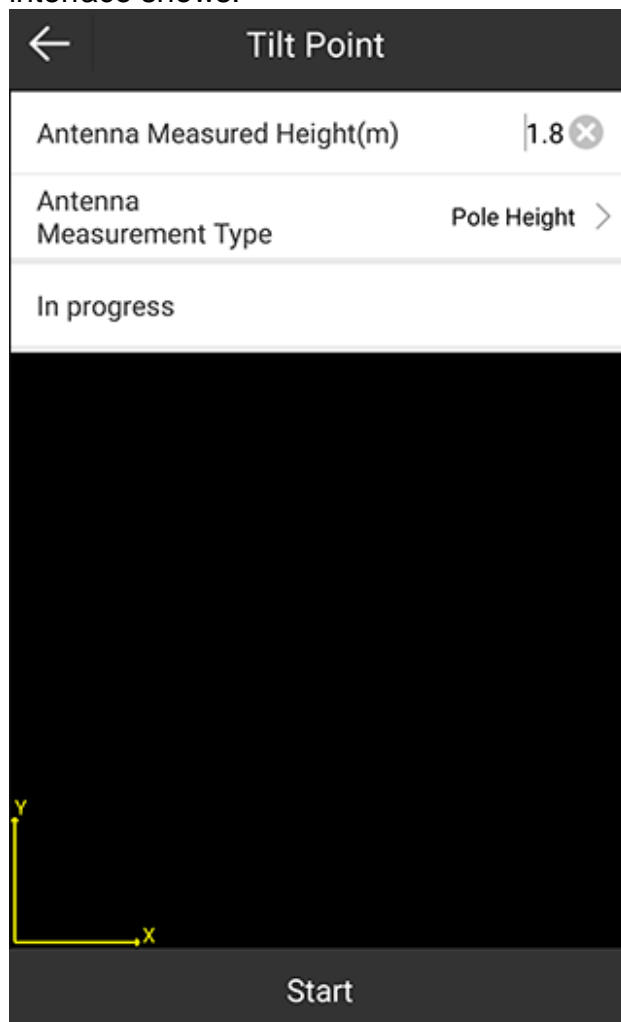
It is required when tilt measurement is used and E-bubble is used.

Before starting E-bubble tilt measurement, to enable E-bubble tilt measurement, in SurPad software, press main menu **Device** → **Device Setting**, and set tilt survey to **E-Bubble**.

To Start E-bubble tilt measurement in SurPad software, do the following:

1. Press main menu **Survey** → **Point Survey** to enter the main interface of point

survey, select  in the point type area, and press . **Tilt Point** interface shows:



2. **Optional:** To modify antenna parameters, press **Antenna Parameters**, and set antenna parameters.
3. To start collecting tilt points, press **Start**.
4. Incline the pole with the inclined angle greater than 5°. The SurPad software automatically collects the first tilt point.

5. Change the inclined direction and repeat step 4 until 3 tilt points are collected. After 3 tilt points are collected, the following interface shows:

←

Tilt Point

Antenna Measured Height(m)

1.8

Antenna Measurement Type

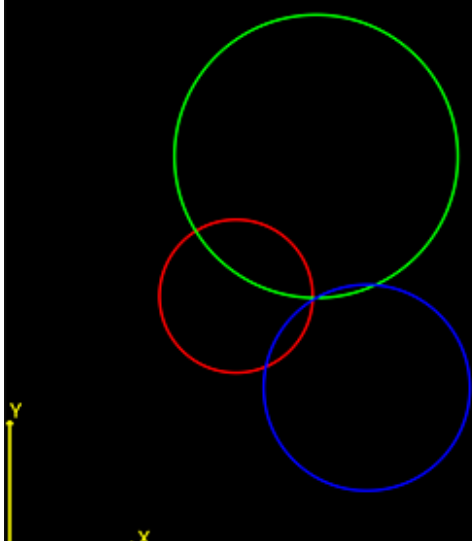
Pole Height

In progress

<1/1>Collected


y

x




Save


6. To save the result, press **Save**. The following interface shows:


Tilt Point

Name

Pt1 

Code



Antenna Parameters

1.8m,Pole Height >

Detail Information

Record

<1/1>Collected

Solution

(17/28)FIXED

Northing

3449452.989

Easting

369863.035

Elevation

6450415.183

HRMS

0.018

VRMS

0.046

AGE

1

Photo And Sketch






OK

4.6.2 Start IMU Tilt Measurement

It is required when tilt measurement is used and IMU is used.

Before starting IMU tilt measurement, to enable IMU tilt measurement, in SurPad software, press main menu **Device** → **Device Setting**, and set tilt survey to **Pole Tilt Correction**.

To start IMU tilt measurement in SurPad software, press main menu **Survey** → **Point Survey** to enter the main interface of point survey, and do as the prompt in the interface:

Status	What it means	What to do
<div> <div> Finit MagEnvChange </div>  </div>	Magnetic calibration is required.	Take the pole and draw a circle towards the ground.
<div> <div> Finit </div>  </div>	Initialization is required.	Shake the pole or walk around.
<div> <div> Inaccurate </div>  </div>	The accuracy of tilt measurement is not enough.	Wait for better signals.
<div> <div> Inaccurate TiltReject </div>  </div>	The tilt angle exceeds 60°.	Make sure the tilt angle is within 0° - 60°.
<div> <div> Ready </div>  </div>	Tilt measurement is successfully enabled.	Start survey.

5 Internal Radio

The device is equipped with 1 W internal radio. You can select the transmission power from 0.5 W or 1 W. There are 8 default channel frequency in which channel **8** is changeable. With firmware updated, lots of protocols in survey industrial are supported.

The default channel frequency is as follows:

Channel	Frequency (Unit: MHz)
1	441
2	442
3	443
4	444
5	445
6	446
7	447
8	448 (Changeable)

The supported radio protocol includes the following:

- Satel
- PCC-4FSK
- PCC-GMSK
- TrimTalk 450S
- South 9600
- HiTarget(9600)
- HiTarget(19200)
- Trimmark III
- South 19200
- TrimTalk(4800)
- GEOTALK
- GEOMARK
- HZSZ
- Satel_ADL
- PCCFST
- PCCFST_ADL










CAUTION: Some of the protocols may require firmware updating.







6 Standard Accessories

The standard accessories are as follows:

Soft bag

Items	Description	Picture
Soft Bag (1)	-	
E200 GNSS Receiver (1)	-	
Charger (1)	Type-C port, UK/America/Europe/Australia	
Power Cable (1)	Type-C to Type-C	
Straps (1)	-	
SIM Cover (1)	Spare SIM cover	
Warranty Card (1)	-	

Carrying case

Items	Description	Picture
Base Carrying Case (1)	Carry case	
E200 GNSS Receiver (1)	-	
Charger (1)	Type-C port, UK/America/Europe/Australia	
Power Cable (1)	Type-C to Type-C	
SIM Cover (1)	Spare SIM cover	
Warranty Card (1)	-	



CAUTION: Standard accessories may change, and the actual accessories shall prevail.

*To be the leading provider of high-precision professional,
solution & service in the global geospatial industry*



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