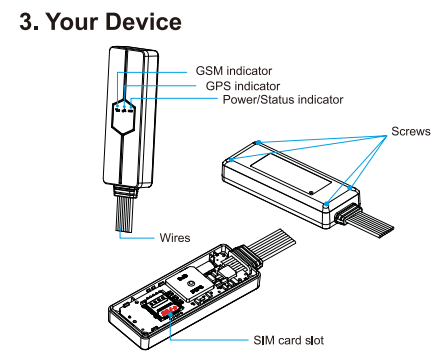


- ### 1. Main Functions
- Automatically lock the wheels
 - 9-90V voltage range
 - External siren supported
 - Intelligent anti-theft
 - Plug & play
 - Key-less power switch on
 - Multiple alarms
 - E-bike battery voltage detection

2. Specifications

| | |
|-------------------------|-----------------------------------|
| GSM frequency | 850/900/1800/1900 MHz |
| Antenna | Built-in quad band GSM antenna, |
| LED indicator | Blue: GPS, Green: GSM, Power: Red |
| Battery | 270mAh/3.7V Li-Polymer battery |
| Working voltage/current | 9-90VDC/8mA (36VDC) |
| Standby current | ≈ 5mA (by battery) |
| Operating temperature | -20°C ~ 70°C |
| Waterproof grade | IPX5 |
| Device weight | 43g |
| Device dimension | 77.0(L)*29.0(W)*13.0(H)mm |



4. LED Indicators

Green LED (GSM indicator)

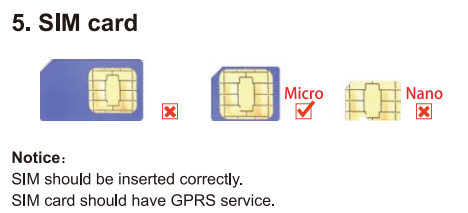
| Status | Definition |
|----------------|------------------------------|
| Quick flashing | GSM initializing |
| Slow flashing | Normal network |
| Off | No GSM signal or no SIM card |
| Solid green | Calling/Online |

Red LED (Power indicator)

| Status | Definition |
|----------------|------------------------|
| Quick flashing | Low battery |
| Slow flashing | Fully charged |
| Solid Red | Charging |
| Off | No battery/Malfunction |

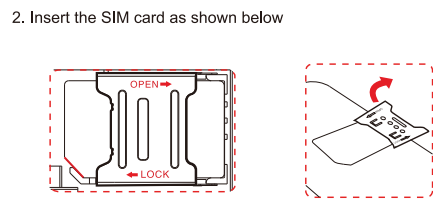
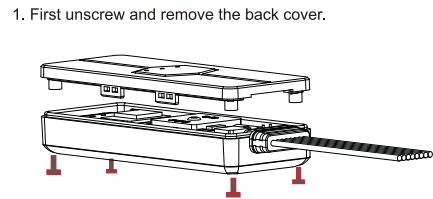
Blue LED (GPS indicator)

| Status | Definition |
|----------------|-----------------------------|
| Quick flashing | Searching GPS signal |
| Slow flashing | GPS positioned successfully |
| Off | Sleep/ GPS stops working |



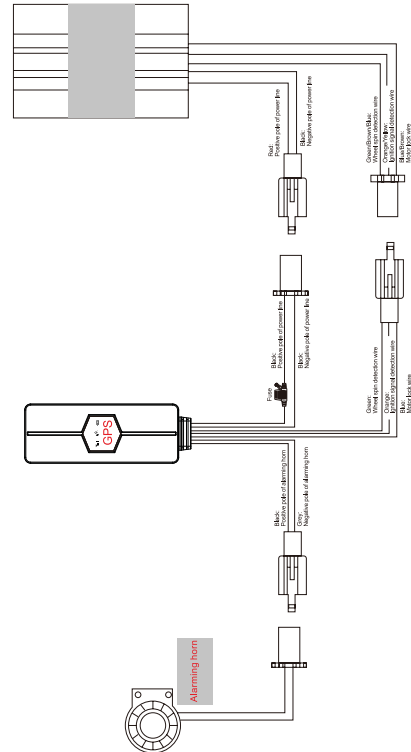
SIM card installation

- Please turn off the device before insert or remove the SIM card.
- Insert the SIM card as the following picture:



6. Wire definition

| No. | Cable Color of Device | Definition | Cable Color of E-bike controller |
|-----|-----------------------|--------------------------------|----------------------------------|
| 1 | Red | Positive pole of power line | Red |
| 2 | Black | Negative pole of power line | Black |
| 3 | Orange | Ignition signal detection wire | Orange/Yellow |
| 4 | Green | Wheel spin detection wire | Green/Brown/Blue |
| 5 | Blue | Motor lock wire | Brown/Blue |
| 6 | Grey | Positive pole of alarming horn | |
| 7 | Black | Negative pole of alarming horn | |



7. Tips for how to find the right wire

Signal detection line of lock

First adjust the multimeter to the DC voltage, then connect the red probe to the bike power supply and black probe to the ground. When key is in OFF, the voltage should be 0. Turn the key to ON, the voltage displayed is the bike battery voltage, so that the wire connected to the red pen is electrically Door lock detection signal line.

Signal detection line of wheel

Get the rear wheel of the ground, switch the key to ON, adjust the multimeter to a DC voltage of 200V, connect the black probe to the negative pole of the battery and red probe to the controller circuit by the red probe. Switch the speed control to make the wheel rotate, the faster the wheel speed, the higher voltage of detection line. If the wheel doesn't rotate, the voltage will be zero.

Motor lock wire

Adjust the multimeter to the DC voltage of 200V, connect its black probe to the negative pole of the battery and red probe to the controller circuit. If the voltage is 3-5V, then it is the motor lock line.

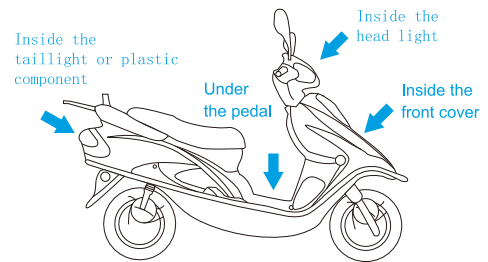
Wiring:

- Connect device's power port to E-bike's controller anti-theft power port; if no power port, connect to e-bike battery.
- Connect the device's 3pin port to E-bike controller anti-theft port
- Connect the device' gray and black connector to the siren.

Note:

If E-bike controller anti-theft port is connected to other e-bike alarm, please remove and connect it to this device instead.

8. Device installation



9. Operation and functions

9.1 SOS number setting

Set SOS number via APP, GPS tracking platform or SMS (SMS only valid at tracking mode)

A. SMS command to add SOS number:
SOS.A, number 1, number 2, number 3#
 E.g. SOS.A.1351234xxx, 1371234xxx, 1301234xxx#

B. SMS command to delete SOS number:
SOS.D, number sequence 1, number sequence 2, number sequence 3#
 E.g. SOS.D.1,2,3#.

9.2 Key-less power switch on

Switch on e-bike by APP or SMS.

9.3 Automatically lock the wheels

In arming mode, device locks the e-bike automatically if abnormal moving detected.

9.4 External siren (optional)

To protect the bike from being stolen and to easily find the bike, the external siren will be triggered.

9.5 Displacement alarm

Device will send movement alarm when the e-bike is moved.

9.6 Power cut-off alarm

When the electricity supply of device is cut off, it will activate cut-off alarm.

9.7 Low battery alarm

When the battery of e-bike is low, the device will send low battery alarm.

9.8 Vibration alarm

When vibration detected for several times, the device will send vibration alarm.

10. Platform Operation

Get registered on the designated service platform by authorized dealer, then you can start the tracking service and settings.

10.1 Login service platform

Please login the designated service platform to set and operate the device.

10.2 Download APP

Please download and install the APP in designated website, APP store or Google Play store.



10.3 Trouble shooting

If you are having trouble with your device, try these troubleshooting procedures before contacting a service professional.

| | | |
|----------------------------------|---|--|
| Poor signal | The signal waves unable to transmit when use the GPS tracker in the places that have poor signal reception, such as tall building around or basement. | Using the GPS tracker in the places that have good signal condition. |
| Unable to boot | Device covered by metal | Remove device and let it face the sky |
| Unable to boot | Low battery | Charge the device battery |
| Unable to boot | Fuse burned | Contact local dealer |
| Unable to connect to the network | Poor signal | Using the GPS tracker in the places that have good signal condition. |
| Unable to charge | Contact failure | Check whether the wires are connected correctly |
| Fail to locate | SIM has no access to GPRS | Contact network supplier to get GPRS service |
| Fail to locate | Always reply "Address inquiry failed" | Contact supplier |

Command list

| VERSION# | Check firmware version |
|----------|--|
| PARAM# | Check parameters |
| STATUS# | Check status |
| WHERE# | Latitude and longitude |
| SERVER | Set server parameters SERVER, 1, domain name, port, 0# SERVER, 0, IP, port, 0# The third parameter: 0 TCP (default), 1 UDP SERVER# Query current number |
| SOS | SOS setting SOS.A, number 1, number 2, number 3# add SOS number add SOS No SOS.D, number sequence 1, number sequence 2, number sequence 3# Delete subjected sequence of SOS number SOS.D, phone number# delete the SOS number SOS# query SOS number |
| CENTER | Center number CENTER.A, center number# add center NO CENTER.# Delete Center NO CENTER# Center number Query |
| GPSDUP | Positioning data upload GPSDUP.A# A=ON/OFF; ON: upload positioning data in regular time OFF: not upload positioning data in regular time. Default: off GPSUP# Query parameter |
| FIND | Find car FIND.T# T: time, range: 1-60, unit: second, default=10. FIND# |

| TIMER | GPS data upload time interval | TIMER.T1.T2# T1=0/5-18000 seconds; ACC ON upload interval; default value: 20 T2=0/5-18000 seconds; ACC OFF upload interval; default value: 20 TIME# Query current T1, T2 parameter |
|----------|-------------------------------|---|
| SENALM | Vibration alarm setting | SENALM.ON.M.T# ON=Turn on alarm M=0-3, alarm upload method. M=0 GPRS, 1 SMS+GPRS, 2 GPRS+SMS+CALL; M=3 GPRS+CALL; default: ON; T=alarm time, range: 3-600 seconds, default=60 Domestic standard version; default M=0; International standard version; default M=1; SENALM.OFF# Turn off vibration alarm SENALM# Query current parameter |
| POWERALM | Power off alarm | POWERALM.A.M# A=ON/OFF; default: ON M=0-3; 0 GPRS; 1 SMS+GPRS; 2 GPRS+SMS+CALL; M=3 GPRS+CALL; default: 0 POWERALM.OFF# Turn off alarm POWERALM# Query current parameter |
| BATALM | Lower battery alarm | BATALM.A.M# A=ON/OFF; default value: ON M=0-1; 0 GPRS; 1 SMS+GPRS; Domestic standard version; default M=0; International standard version; default M=1; BATALM.OFF# Turn off battery low alarm BATALM# Query current parameter |

| MOVING | Moving alarm | MOVING.A.R.M# A=ON/OFF; default value: OFF R=100-1000; displacement radius; unit: meter; default value: 300; M=0-3; 0 GPRS; 1 SMS+GPRS; 2 GPRS+SMS+CALL; M=3 GPRS+CALL; default: ON; International standard version; default M=0; MOVING.OFF# Turn off alarm MOVING# Query current status, radius, alarm method, displacement origin point |
|---------|----------------------|---|
| KEYLOCK | Arming and disarming | KEYLOCK.ON/OFF# default: ON ON: turn on the alarm OFF: turn off the alarm |
| StarACC | ACC ON/OFF | StarACC.ON# Remote ignition StarACC.OFF# ACC off |
| Ling | Horn | Ling.A.B.C.D.T1.T2# A=0/1 Arming/Disarming 0: no horn sound 1: with the horn sound, the default: 1 B=0/1 Car searching 0: Car searching off 1: Car searching on, Default: 1 C=0/1 vibration alarm 0: vibration alarm has no horn sound 1: vibration alarm with horn sound, Default: 0 D=0/1 Car theft alarm 0: alarm has no horn sound 1: alarm with horn sound, Default: 1 T1: ring time, Unit: 100mS, Range 1-30, Default = 2 T2: ring interval, Unit: 100mS, Range 1-30, Default = 2 Ling# Query parameter |

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

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 1: 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:

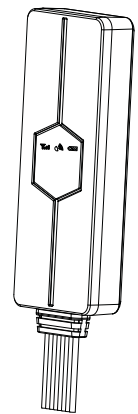
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

-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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Intelligent E-Bike GPS Alarm EG02 User Manual (Version 1.0)



⚠ One side of the device is marked "THIS SIDE TOWARDS SKY", place the unit upside down will result in connection issues. Avoid placing the device somewhere that metal will be covering it up.

折叠尺寸 : 70 X 110mm(H) 展开尺寸 : 350X220 mm(H) 材质 : 105克铜版纸