

1. Main Functions

• Automatically lock the wheels

• Plug & play

• 9-90V voltage range

• Key-less power switch on

• External siren supported

• Multiple alarms

• Intelligent anti-theft

• 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 L-Polymer battery
Working voltage/current	9-90VDC/8mA (36VDC)
Standby current	≈5mA (by battery)
Operating temperature	-20℃~ 70℃
Waterproof grade	IPX5
Device weight	43g
Device dimension	77.0(L)*29.0(W)*13.0(H)mm

3. Your Device

GSM indicator

GPS indicator

Power/Status indicator

Screws

Wires

SIM card slot

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

5. SIM card

Micro

Nano

Notice:

SIM should be inserted correctly.
SIM card should have GPRS service.

1.Please turn off the device before insert or remove the SIM card.

2.Insert the SIM card as the following picture:

1. First unscrew and remove the back cover.

2. Insert the SIM card as shown below

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 touch 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:

A. Connect device's power port to E-bike's controller anti-theft power port; if no, power port, connect to e-bike battery.
B. Connect the device's 3pin port to E-bike controller anti-theft port
C. 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

Inside the taillight or plastic component

Under the pedal

Inside the head light

Inside the front cover

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,1351234xxxx, 1371234xxxx, 1301234xxxx#
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.

iOS

Android

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
Low battery	Fuse burned	Charge the device battery
Unable to connect to the network	Poor signal	Contact local dealer
Unable to charge	Contact failure	Using the GPS tracker in the places that have good signal condition,
Fail to locate	SIM has no access to GPRS	Check whether the wires are connected correctly
	Always reply "Address inquiry failed"	Contact network supplier to get GPRS service
		Contact supplier

Command list

VERSION#	Check firmware version
PARAM#	Check parameters
STATUS#	Check status
WHERE#	Latitude and longitude
SERVER	Set server parameters
SOS	SOS setting
CENTER	Center number
GPSPUP	Positioning data upload
FIND	Find car

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 TIMER# 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; Domestic standard version: default M=0; International standard version: default M=1; 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.

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