

GPS VEHICLE TRACKER USER MANUAL



Preface

Thank you for purchasing GPS Vehicle Tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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1 Summary

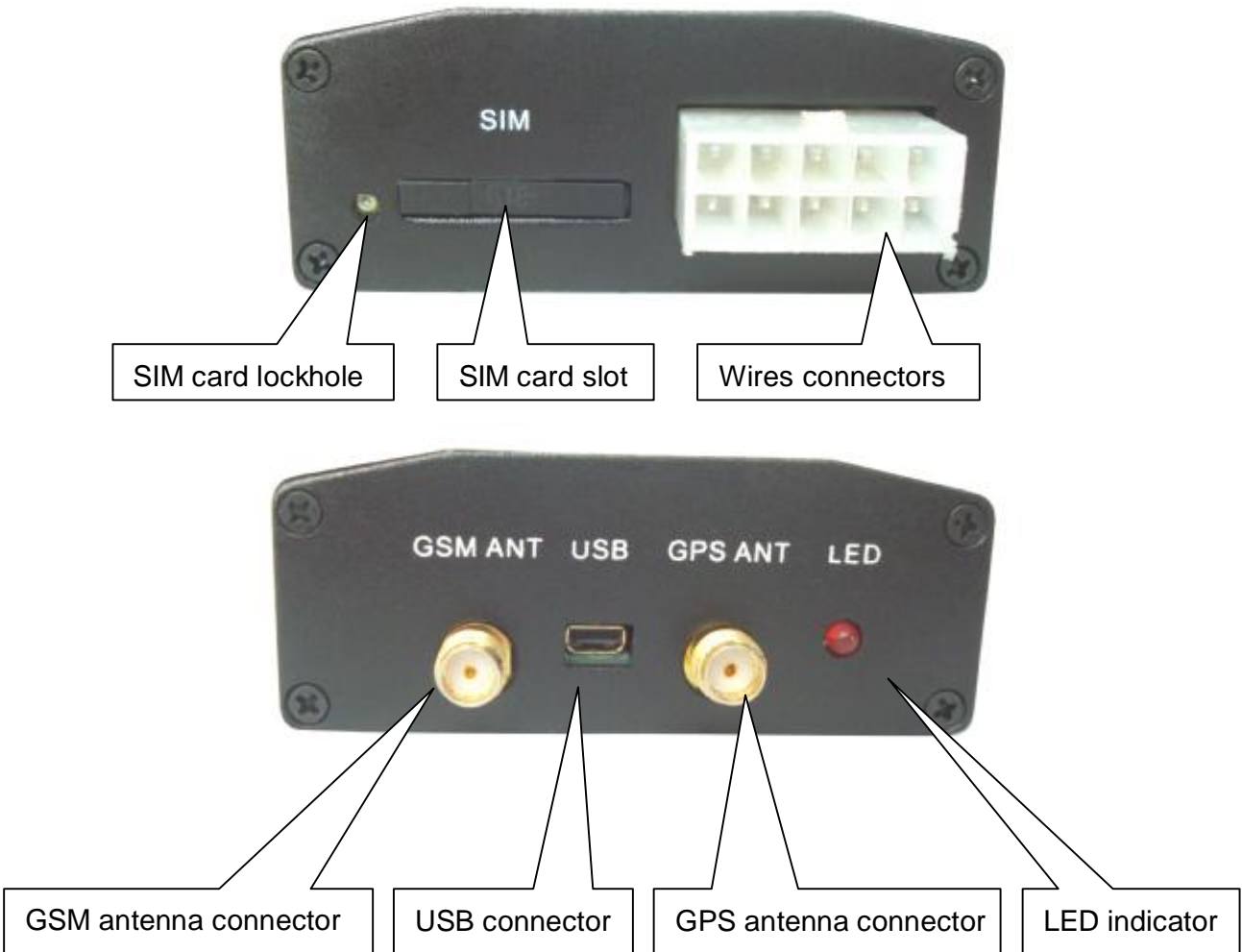
Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or GPRS, and guard against theft of Vehicle.

2 Applications

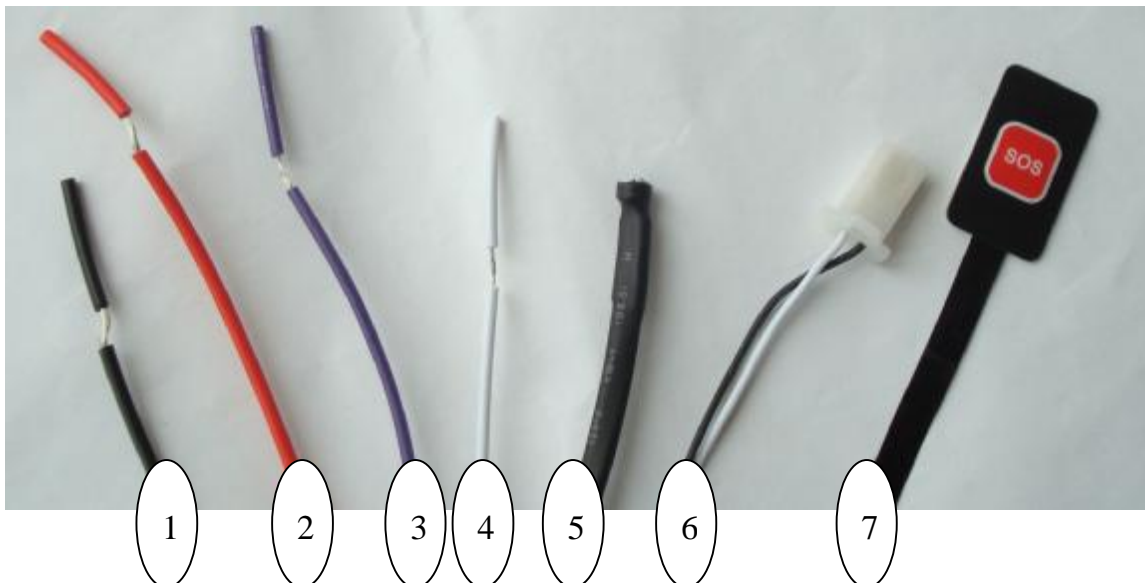
- I Rental vehicle / Fleet management etc
- I Covert tracking

3 Hardware Description

3.1 Connectors

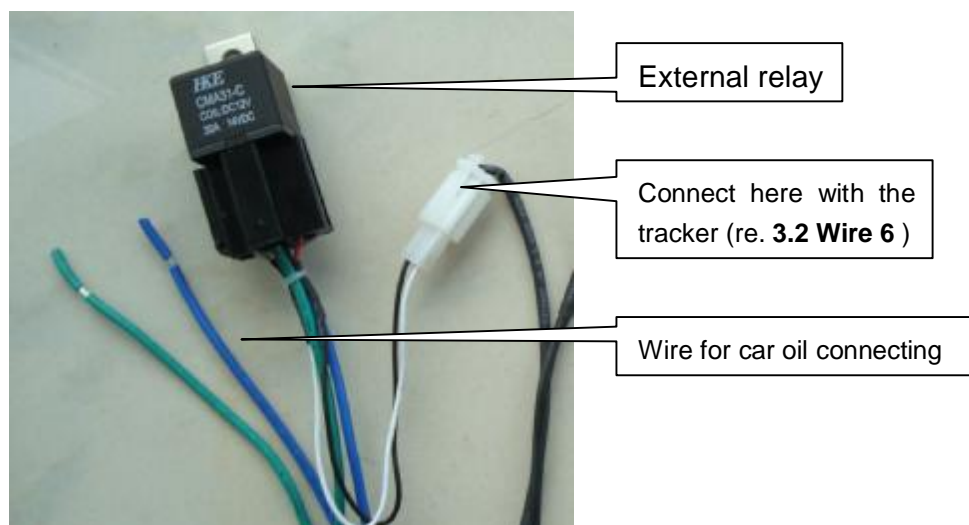


3.2 Wires Connection



1. Black wire:-12V;
2. Red wire:+12V;
3. Purple wire:ACC;
4. White wire:connecting guard against theft implement(reserve-wire,it can be connected or not.)
5. Microphone
6. External-relay connector
7. SOS button

3.3 External relay Connection



4 Specification.

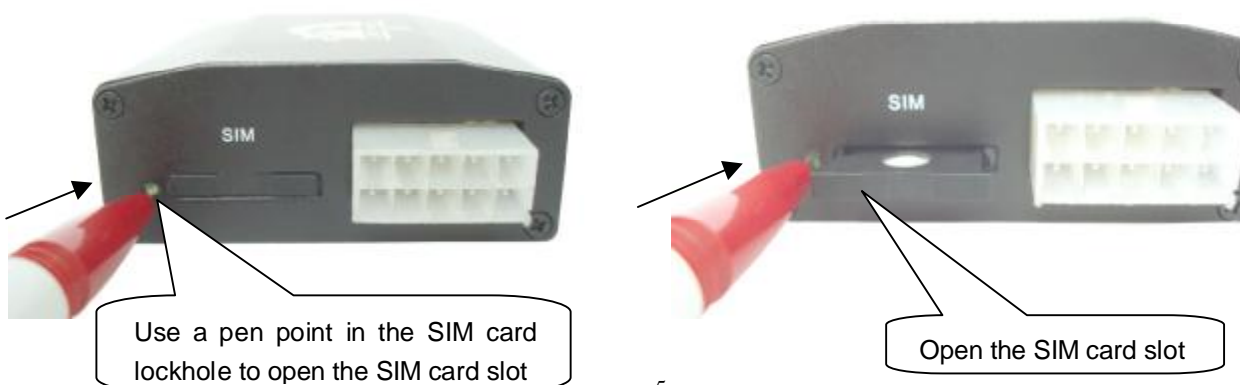
Content	Specs.
Dimension.	80mm x 60mm x 25mm
Weight	100g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz or 900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Reacquisition 0.1s Cold status 45s Warm status 35s Hot status 1s
Car charger	12—24V input 5V output
Battery	Chargeable changeable 3.7V 1100mAh Li-ion battery
Standby	50hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

5 SIM card installation

Make sure that there is **no call transfer** and **call display is on**, and **PIN code off**.

Steps:

1. Use a pen to open the SIM card slot
2. Put a SIM card into the slot.
3. Insert the slot with SIM card into the tracker.





Put a SIM card into the slot.



Insert the slot with SIM card into the tracker.

6 Startup

- I Put the SIM card in place, the LED indicator will flash after several seconds. (NOTE: The tracker turns on automatically while the SIM card slot is inserted, and the tracker turns off automatically while the SIM card slot is taken out.)
- I After connecting the wires with the tracker and the car, then you can see the LED indicator flash green around the wires connector (re. **3.1 wires connector**)
- I In 40-60 seconds, the unit will start to work and receive the GSM signals as well as the GPS signals. When this unit receives GPS signals normally, you can use it and do all the following settings.

7 Usage

The tracker has three working modes: Fortifying mode, Tracking mode and Monitoring mode.

8 Fortifying Mode

When you turn on the tracker, the default mode is Fortify mode. In fortifying mode, you can call the tracker to activate the "protection" for your loved car or vehicle. The indicator will flash every 4 seconds when the "protection" is activated.

While the "protection" will be deactivated when you dial up the tracker again, the indicator will flash every 1 second when the deactivation is done.

Remark: If ACC is connected, then you can not activate the “protection” for your car. The tracker will be triggered to send an alert under one of following conditions:

8.1 Engine Started Alert

In fortifying mode, the tracker will start the ACC examine automatically. It will warn up the user when the engine is started.

Alert SMS format: fortify! + lat./long.

It will keep sending such an alert every 3 minutes, you can send message to stop it.

8.2 Movement Alert

This function is using for the owner to get an alert when the tracker moves out of a restricted district (500m radius),

Response SMS format: moved!+lat./long..

It will keep sending such an alert every 3 minutes, you can send message to stop it.

8.3 Power Cutoff Alert

In this mode, the tracker will warn up the user automatically when the main power is cut off unwontedly, such as if someone cut the wire connected the car with the device, it will alert “Battery with coordinates”.

Alert SMS format: battery! + lat./long.

It will keep sending such an alert every 3 minutes, you can send message to stop it.

NOTE: These three alerts only occurred when the “ protection ” is activated in fortifying mode.

8.4 Application in the Car Alarm System

If your car equipped with a car alarm system, you can connect the white wire (re. **3.2 wire4**) to the positive wire of microphone on the car alarm. The authorized number will receive an alert if the car alarm sounds more than 10 seconds.

Alert SMS format:

lat: 22.567835N long: 114.051397E speed: 000.0 23/12/09 01:55 bat:F Signal:F

Trigger imei:356895033307722

8.5 Checking the Working Status (fortify or no fortify)

You can send SMS command message to tracker, it will report “ fortifying “ or “ no fortify “ to you.

Reply message means out of Fortifying mode, Reply message means under Fortifying mode.

When the tracker is in tracking mode or monitoring mode, send a SMS command message to switch to the "Fortifying mode", under fortifying mode, make a call to activate the protection of your loved ones or car

9 Tracking Mode

9.1 Initialization

Send SMS message to the unit, it will reply “begin ok” and initialize all the settings.

9.2 Change the Password

Send SMS message change the password.

Remark:

9.2.1 Be sure keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.

9.3 Authorization

There are only 5 numbers able to be authorized numbers.

9.3.1 Setup: Send SMS message phone number to set up the first authorized number. The other authorized numbers should be setup by the first authorized number. If the number is successfully authorized, the unit will reply SMS as “admin ok!”.

9.3.2 Cancel: Send SMS message number to delete the authorized number.

9.3.4 When an authorized number dials up the unit, it will hang up and report a real-time Geo-info as below:

Lat: 22.566901 long: 114.051258 speed: 0.00 14/08/09 06.54 bat:F Signal:F help me
imei:354776031555474

Lat: 22.566901 long: 114.051258==Coordinate

0.00 == speed

14/08/09 06.54== Date&Time

bat:F == battery power is full, while ‘L’ means battery power is low

Signal:F == Full GPS signal ‘L’ means no GPS signal

help me == the SOS message, this section is blank for tracking message

354776031555474== IMEI

9.4 Auto-Track

This function is using for the user to receive SMS with Geo-info in a certain time.

9.4.1 Set up: Send SMS message to the unit, it will report the Geo-info at 30s intervals for 5 times.(s: second, m: minute, h: hour).You will receive a reply as “t030s005n OK” if the setting is successful. The setting must be in 3 digits and at maximum 255 in value.

9.4.2 Send SMS message to the unit, it will reply SMS heaps of times. You will receive a reply as the setting is successful.

9.4.3 Cancel: Send message to delete the “ auto track “.

Remark: the interval must not be less than 30s.

9.5 Geo-fence

Set up a geo-fence for the unit to restrict its movement within a district. The unit will send message to the authorized numbers when it moves out of this district.

Notes: This function will be invalid if the unit moves outside the district. You need to re-set it if you want this function again.

9.5.1 Setup:Send SMS message to the unit to set the restricted district.

Remark :The first latitude&longitude is coordinate of the top left corner of the Geo-fence, while the second latitude&longitude is the coordinate of the bottom right corner.

9.5.2 Cancel:Send SMS message to deactivate this function..

9.5.3 Response SMS format: stockade!+geo-info. It will alarm one time in each setting.

9.6 Movement Alert

This function is using for the owner to get alarm when the tracker moves out of a restricted district.

9.6.1 Setup: Send SMS message to the unit to set the movement alert.

9.6.2 Cancel: Send SMS message to deactivate the movement alert.

This function will be out of effect after the unit moves outside the district.

Response SMS format: move!+geo-info. It will alarm one time in each setting.

9.7 Overspeed Alert:

This function is using for the owner to control the target's speed.

9.7.1 Setup: Send SMS message to the unit (suppose the speed is 80km/h), and it will reply "speed ok!". When the target moves exceeding 80 km/h, the unit will send SMS speed+080!+Geo-info to the authorized numbers. It will keep sending such an alert every 3 minutes.

9.7.2 Cancel: Send SMS message to deactivate the overspeed alert

Remark: It is recommended that the speed alarm is set at not less than 50km/h. For below that rate, it may cause the excursion of the GPS signal influenced by clouds etc.

Response SMS format: speed+080!+Geo-info (suppose the speed is 80km/h).

The tracker will check the speed in 3 minutes interval and alarm if it is overspeed.

9.8 IMEI Checking:

Send SMS message to the unit to check the IMEI number of the unit.

9.9 SOS Button

Press the SOS for 3 second, it will send "help me !+ Geo-info" to all the authorized numbers every 3 minutes. It will stop sending such a SMS when one of the authorized number reply SMS message to the tracker.

9.10 Low Battery Alert

It begins to send SMS to the user every 30minutes when the the battery voltage is lower than 3.7V.

SMS format: low battery+Geo-info.

9.11 SMS Center (or appointed number)

9.11.1 Setup: Send SMS message phone number to setup the SMS center.

If the SMS center is set up, when an authorized number sends SMS or makes a call to the tracker, the tracker will reply a SMS with Geo-info & authorized number to SMS center.

9.11.2 Cancel: Send SMS message to cancel the SMS center.

Response SMS format: authorized number+Geo-info

Note:

- ◆ The SMS message must in Text format, can't be identified for PDU format.
- ◆ Power on the tracker outdoor when use the tracker for the first time, it can search the GPS signal nearby, it also greatly shorten the time of searching the GPS signal for the future use.

10 Monitoring Mode(voice surveillance mode)

Send SMS message, the response from the tracker is “monitor ok” then you can hear the voice around the tracker after your call.

11 Remote Oil&Electricity Cut-off Function

This function is using for the car owner to send a SMS remotely to stop a moving vehicle.

11.1 Setup: Send SMS command message to the tracker to cut off the oil and electricity of the car to stop the car.

Reply format: powercar ok. You will receive such a reply if the setting is successful.

11.2 Cancel: Send SMS command message to the tracker to restart the car again.

Reply format: powercar ok. You will receive such a reply if the setting is successful.

13 Cautions

Please comply with the instructions to extend the unit life:

1. Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
2. Don't use & store the unit in dusty places.
3. Don't put the unit in overheated or overcooled places.
4. Handle carefully. Don't vibrate or shake it violently.
5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
6. Don't paint the unit, this may cause some foreign materials left in between the parts.
7. Don't disassemble or refit the unit.
8. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
9. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.