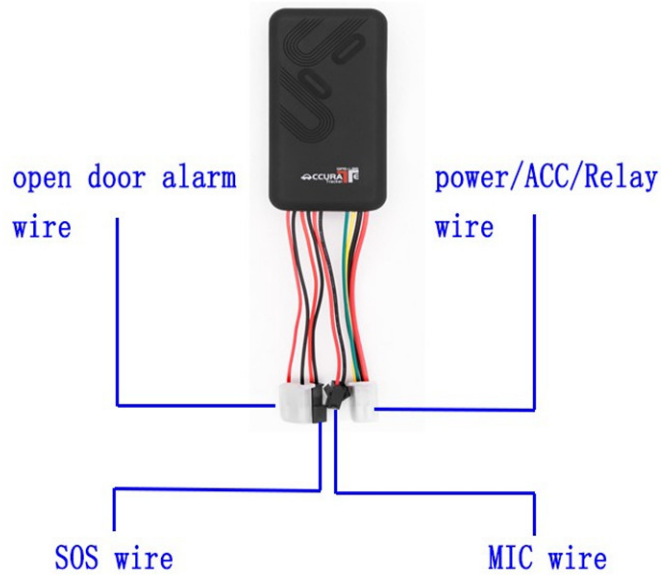# GPS TRACKER USER MANUAL



# <u>PREFACE</u>

Thank you for purchasing GPS tracker. This manual shows how to operate the device smoothly in details, please make sure to read this manual carefully before using the device. Please be noted that any update of the manual is made without prior notice. Each time the update of the manual will be released in the latest product sales. The manufacturer won't assume any legal responsibility for any errors or omissions made in this manual.
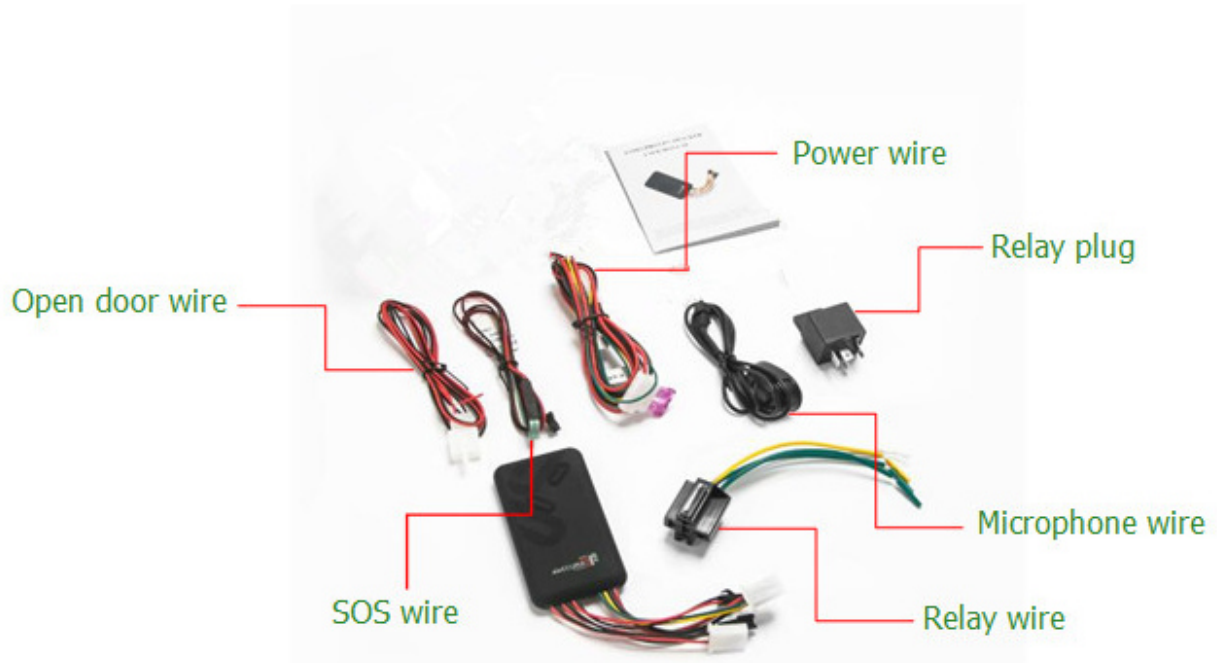
# 1 SUMMARY

Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS, APP and Internet. It adopts the most advanced technology of GPS and AGPS dual positioning.
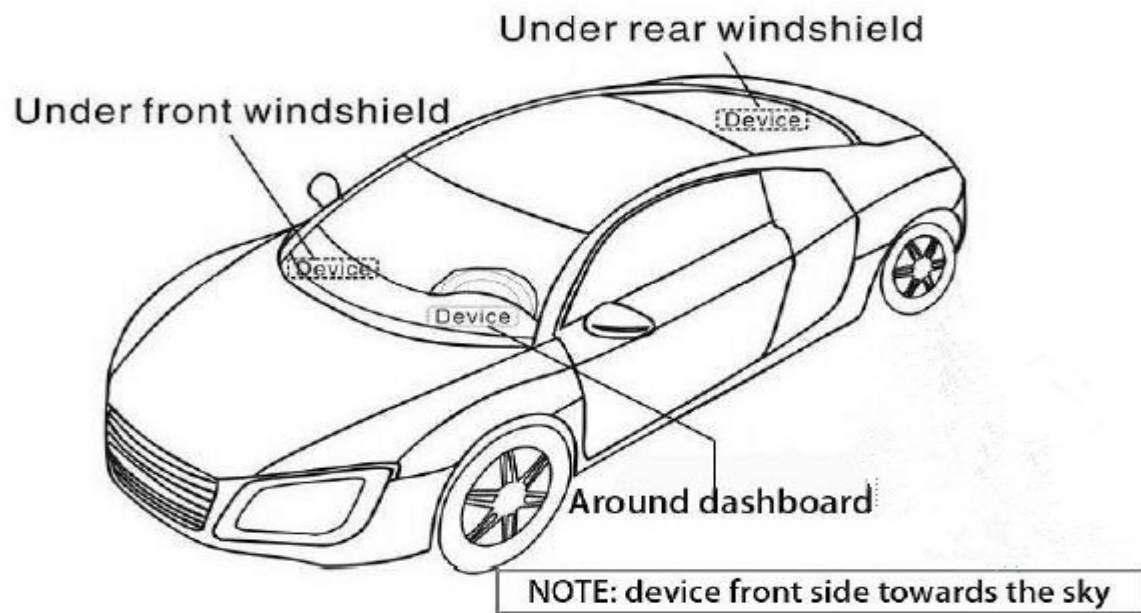
| Content | Specs. |
|---|---|
| Dim. | 95*50*13mm |
| Weight | 65g |
| Network | GSM/GPRS |
| Band | 850/900/1800/1900Mhz |
| GPS sensitivity | -159dBm |
| GPS accuracy | 5m |
| Wall charger | 12V-36v |
| Time To First Fix | Cold status    45s<br>Warm status    35s<br> Hot status    1s |
| Storage Temp. | -40°C to +85°C |
| Operation Temp. | -20°C to +55°C |
| Humidity | 5%--95% non-condensing |

## 2.Hardware Description

**2.1) device front side towards the sky. When install in car, if the windscreen glued by metal thermal insulation layer or heating layer, it will reduce the GPS receive signal and lead to GPS work disorder.**

Under rear windshield
Under front windshield
Device
Device
Device
Around dashboard
NOTE: device front side towards the sky

(The GPS tracker must be installed professional personnel)

## 2.2  Wires connection

2.2 device power wire connection as below:

2.2.1 Red wire connects to vehicle power positive +

2.2.2 Black wire connects to vehicle power negative -
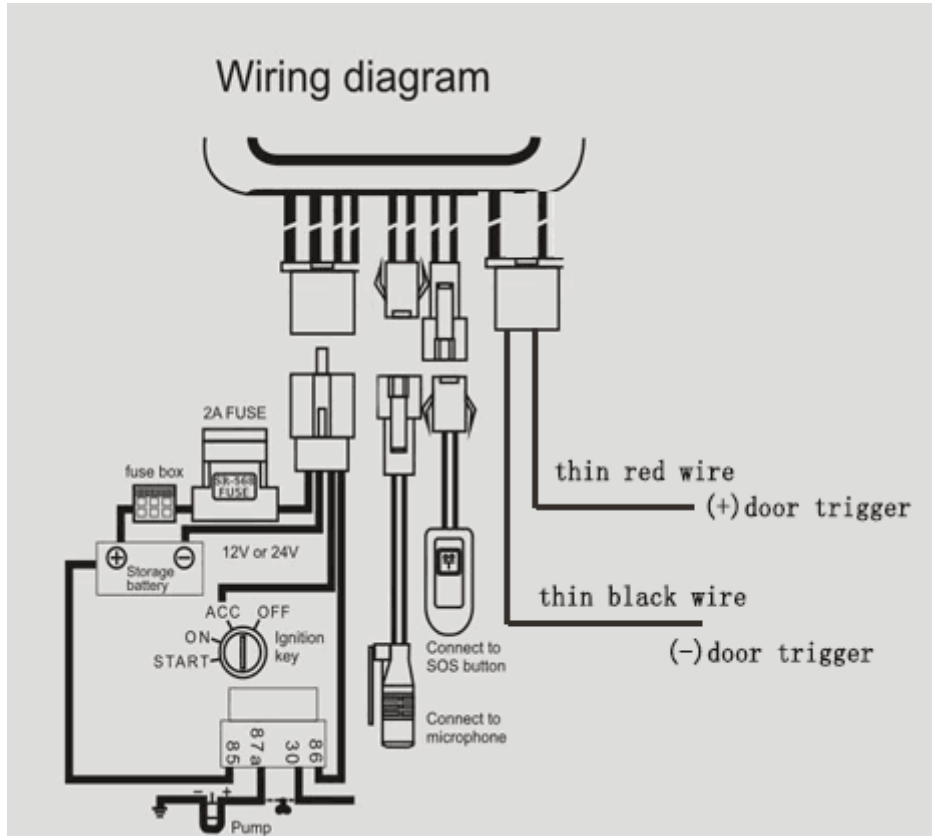
2.2.3 Yellow wire connects to relay yellow wire

2.2.4 Green wire connects to ACC wire

2.25 thin Red wire connects to the door control circuit if it is positive

2.26 thin black wire connects to the door control circuit if it is negative

Knowing about the type of the door trigger is positive or negative trigger

## 2.3 Device wiring diagram

Wiring diagram

| INDICATOR LIGHT STATUS | MEANING |
|---|---|
| green light -Solid | GSM signal connection |
| green light -Flash | NO GSM connection |
| Blue light -Solid | GPS signal connection |
| Blue light -Flash | No GPS or searching gps signal |

Note: All ledS will turn off after 5 minutes for best hide

Connect 12V-36 v voltage of the power supply

## 3. Main functions

- GSM quad-band frequency;
- Real time tracking by SMS/GPRS;
- Recover original password;
- Real time voice monitoring;
- Overspeed alarm ;
- ACC anti-theft alarm ;

- SOS alarm ;
- Built-in backup battery to realize power failure alarm;
- Cut vehicle oil or circuit (optional).
- Add Open the door alarm;
- Add Vibation alarm
- Add Smart sleep save power Mode

## 4. Notices:

1.GPS tracking can be worked outdoor.

2.Please make sure GSM SIM card(2G GSM network or compatibility 2G GSM network) supports making calls, sending messages, GPRS network.

3.Please make sure GSM SIM card is with sufficient balance.

4.Please make sure the GSM card has opened the call shows and turned off the call transfer.

5.Please insert the GSM phone card correctly.

6.Do not assembly and disassembly device at will.



Normal SIM       Micro SIM       Nano SIM

## 5.TURN ON THE DEVICE

- Open the back cover, insert the SIM card(chip up) to the slot.

- The indicator light is on when SIM card is inserted.

- The device gets GPS location when there is GPS signal and gets LBS location when there is no GPS signal.

- The device automatically turns off when the SIM card is removed.

## 6.SMS TRACKING(123456 is default password)

### 6.1. insert the SIM card, take device to outdoor
### 6.2. tracker

Call the SIM card phone number in tracker,you will receive a Google Maps link of position after set up the authorization number or sending message "smslink123456" to SIM card phone number in tracker .

E.g:



## 6.3. Admin number setting support 5pcs admin number (After admin number setting, all SMS alarm will send the admin number.)

Command: admin123456 phone number（This phone number is your own mobile phone number , not the SIM card number in tracker .）

Reply：admin ok

E.g：admin123456 13800138000

When the unit is in over-speed alarm,move alarm it will send alert to the admin

number.（13800138000）

Admin number Canceling:
　　Command ：noadmin123456 13800138000
　　Reply：noadmin ok

## 6.4 Monitor
　　6.4.1　The default mode is "tracker" (Tracker mode).
　　6.4.2 Send SMS "monitor+password" to the unit,switch to "monitor" mode.then use your mobile call the device sim card,unit will auto pick up

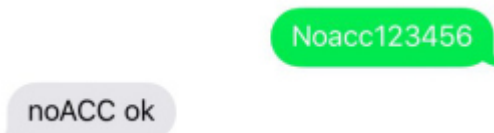　　6.4.3 Cancel monitor Send SMS "tracker+password" to the unit, switch to "tracker" mode

## 6.5 ACC working alarm

6.5.1 This function is deactivated by default. send "ACC+password" to tracker, And tracker will send "ACC on+latitude & longitude" to authorized numbers when detect ignition on\; and tracker will send "ACC off+latitude & longitude" to authorized numbers when ignition off and ACC is off.

　E.g：



Acc123456

ACC ok

6.5.2　Send "noacc+password" to deactivate this function, tracker will reply "noACC ok".



Noacc123456

noACC ok

## 6.6 Cut off the Oil and Power System

6.6.1 Send command "cut+password" to tracker,And it will remain immobile state until next command to resume.it will be executed , and stop the car when the speed is less than 20KM/H.

6.6.2 resume the Oil and Power System

Send "resume+password" to tracker,

## 6.7 Power failure alarm

6.7.1.This function activates by default.it will send alarm after the extral power discount

```
cut power alert!
352887077654321
17-04-18 13:30:10
22.675139,N,114.039073,E
http://maps.google.com/maps?
q=N22.675139,E114.039073
```
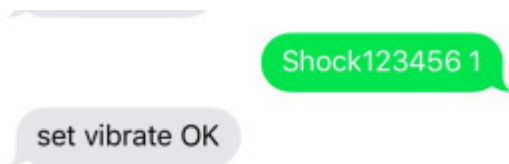
## 6.8 SOS help

Long Press the SOS button for 3 seconds, the tracker device will send SMS "SOS HELP!+lat./long." to all the authorized numbers

```
SOS help!
352887077654321
17-04-18 10:44:03
22.674697,N,
114.038577,E
```
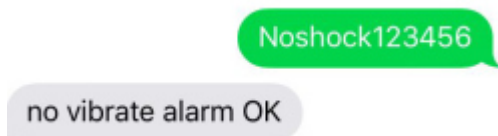
## 9 Vibation alarm (built-in g-sensor)

Send "shock+password+space+level" to the unit(level from 1 to 5,1 is the highest sensitive),when the sensor is striggered ,and will send send Vibrate alarm+latitude&longitude",
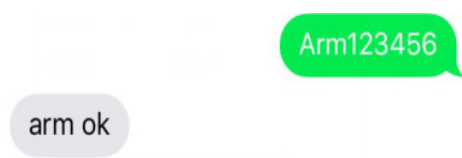
6.9.1

> Shock123456 1

set vibrate OK

6.9.2 canceling: Send SMS "noshock+password"

> Noshock123456

no vibrate alarm OK

# 7. Arm set
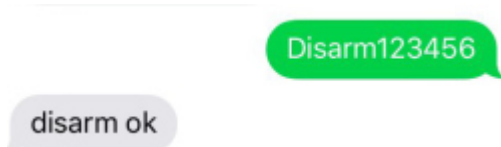
7.1.1 Send SMS command "arm+password" to the tracker. the SMS command will make the tracker device enter into armed state,User must stop the engine, (that is ACC is lower voltage),You will set up arm status fail if the engine is turned on (the ACC is high voltage), it will reply "set up fail! pls turn off ACC"

> Arm123456

arm ok

**Disarm**

7.1.2 Disarm by SMS

Send SMS command "disarm + password" to the tracker device, and the SMS command will make the tracker device enter into disarmed state.
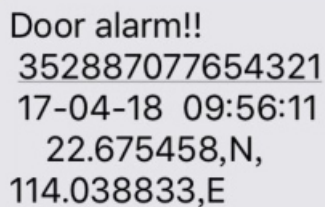
Disarm123456

disarm ok

## Alarms under Arm State

### 7.1.2 Door open alarm

The unit will send SMS "Door alarm+lat/long" to the authorized number at interval of every 3 minutes when the door of the car always open in arm status.

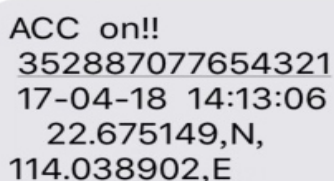Close the door of the car or Disarm to stop this alarm

Door alarm!!
352887077654321
17-04-18  09:56:11
   22.675458,N,
114.038833,E

### 7.1.3 ACC Alarm

The unit will send SMS "ACC on+lat/long" to the authorized number in at interval of every 3 minutes when the engine of the car is always turned on in arm status

Close the ACC off or Disarm to stop this alarm

ACC  on!!
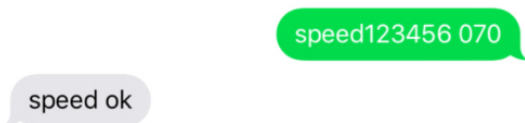352887077654321
17-04-18  14:13:06
   22.675149,N,
114.038902,E

## 7.2 Over-speed Alarm setting（It works only in continuous positioning mode.）

Over-speed Alarm setting:
  Command ：speed123456 70（Suppose speed is 70km/h）note: not less 60KM/H
  Reply：speed ok
  E.g：



When the unit speed is over 70km/h, it will send message "speed alarm!" to the

admin number .

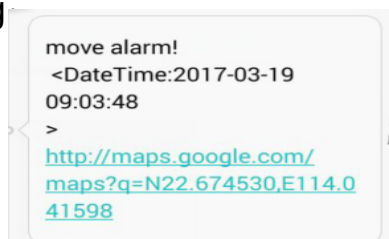Over-speed Alarm canceling ：
  Command ：nospeed123456
  Reply：nospeed ok

## 7.3. move Alarm setting   (It works only in getting gps signal, the scope is a

circle that radius 200meters)
  Command：move123456
  Message Reply：move ok
  E.g



move alarm Canceling:
  Command：nomove123456
  Reply：nomove ok

## 7.4 Terminal (local) Time Setting(factory setting   GMT 0)
  Command：time zone123456 local time zone
  Reply：time ok!
  E.g：  time zone123456 1       time zone123456 -1       Time zone123456 0
time zone123456 5 30

## 7.5   Reset Hardware
   Command：reset123456
   Reply：reset ok


## 7.6 Change the password

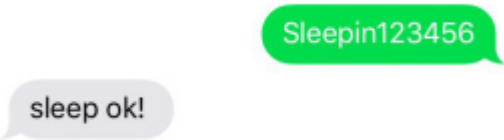   Command: password123456 888888

      Reply :password OK

Note:    123456 is the old password(default ),888888 is the new password,it

must the 6 digits Arabic numerals
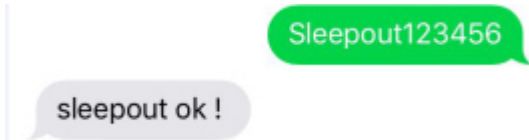

### 7.8 Smart sleep save power Mode

| | SMS Mode(close GPRS) | GPRS Mode |
|---|---|---|
| Normal mode(default) | gps module work all the time | Online ,the device will send gps data all the time though the car is static or moveing |
| Smart Sleep mode | The device static,it go to sleep, GPS module shut off, GSM module work in low power consumption. The car move , call | Always online,once car is static , GPS module shut off, GSM module work in low power consumption.  once the car moveing,device get shock ,it will auto wake up and send gps data to platform server |

| | and sms command<br><br>can awake it. | |
|---|---|---|

7.8.1 send "sleepin+password"

Sleepin123456

sleep ok!

7.8.2 Cancel: Send "sleepout+password", tracker will reply "sleepout ok", tracker won't sleep, GSM and GPS works all the time.

Sleepout123456

sleepout ok !

**7.8.3 switch GPRS to SMS mode (SMS mode means close the GPRS)**

The default mode is "GPRS", Send SMS "sms+password" to the tracker, and it will reply "sms ok!" enter sms mode

Send SMS "gprs+password" to the tracker, and it will reply "gprs ok!" enter GPRS mode

**8. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE**

Lat:22.675318 Long: 114.039124
Speed:0.05
Time:18/15/43
http:// maps.google.com/ maps? q=N22.675318,E114.039124
352887077654321

sMcc:460 sMnc:0
sLac:9755 Cellid:3962
Time:08/00/00
Date:00/00/00
IMEI: 352887077654321

Pic（1）                                    Pic(2)

**Pic 1：Replied real-time tracking information under GPS satellites signal.**

◆ **Lat:22.039124 lon:114.039124** Positioning of the latitude and longitude values.

◆ **Spd：000** This refers to the device moving speed. The unit is km/h.
◆ **Time:18/15/43** real-tracking time, the Default is beijing time. You can set a time zone by sms command
◆ **Google Link:** This is the link to the Google map showing the position of the device.
◆ **352887077654321:** Device IMEI No.

**Pic 2：Replied LBS information without GPS satellites signal.**

◆ **smcc:27a4 1223:** Real-time LBS data.
◆ **Time:08/00/00** LBS positioning time.
◆ **IMEI:352887077654321**

# 6. 0 START ONLINE TRACKING

sms1: adminip123456 www.12gps.net 10202 (set DNS and port)

sms2: APN123456 Apn name （ APN name pls ask the sim card company ,for example tell you the apn name is ABC,so send APN123456 ABC)

If set the first step,device one line in platefrom, no need set apn commands

**If you need real-time tracking by APP or web platform, please see platform set card**

## 7. FAQ and processing methods.

| FAQ | Instructions/Solutions |
|---|---|
| Fail to turn it on | Please check if battery is charged |
| No GSM signal | ● Please check if SIM card installed correctly. <br> ● Please check if SIM card is GSM network. |

| | |
|---|---|
| No GPS | A more open view of the sky is recommended to make |
| No reply to SMS | Password wrong or the format is wrong. |
| No reply to calling & | Authorized / admin phone number is incorrect or has not |
| SMS position OK, cannot use the APP | Pls check if APN is correctly set. And pls find out the correct APN content of the SIM card. (Pls refer to 6.3 |
| latform position is difference from the actual position. | No uploading position time or no GPS signal: call the device phone number and receive the position message. If it shows like Pic 2, it means no GPS signal. The |