

GSM GPRS GPS Tracking System

User Manual



Thank you for purchasing the 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.

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◆ Quick using

- 1) Proper insert GSM SIM card, connect to power supply 12V/24V, Must turn on small switch to “ON” place.
- 2) Put device outside, around 45-90s three lights will keep lighting on stands for device can work normally.
- 3) Dialing device number, it will hang up and reply tracking message with valid Long and lat to show location.
- 4) Track online system need set two SMS as below:

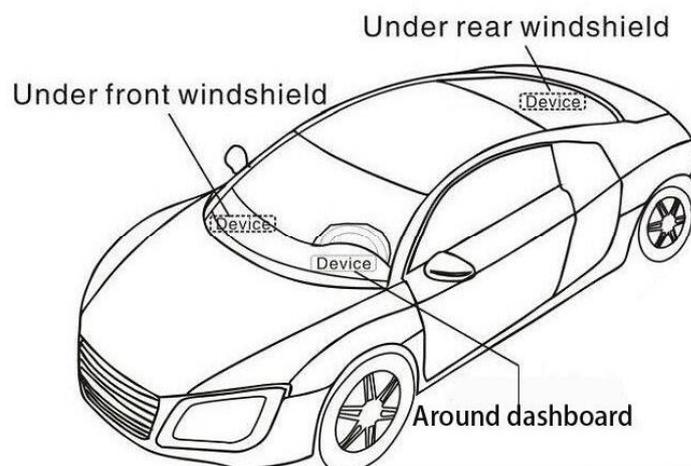
SMS 1: adminip123456 (space)121.201.109.14(space)6969

SMS 2: apn123456(space)APN of operator(space)APN user name(space)APN password

◆ Installation attentions

NOTE: device front side towards the sky.

Installation: 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.



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.

NOTE: Please turn on small switch inside SIM card hole after install SIM card

2. Main functions

- GSM quad-band frequency;
- Real time tracking by SMS/GPRS;
- Ignition ON alarm ;
- Overspeed alarm/Geo-fence alarm;
- Connect external relay to control vehicle oil or circuit (optional);

3.Specs.

Content	Specs.
Dim.	84 mm x47.5 mm x 15 mm
Weight	50g
Network	GSM/GPRS/GPS, TCP/IP
Band	850/900/1800/1900 Mhz
GPS sensitivity	-159dBm
GPS accuracy	5-10m
Time To First Fix	Cold status 45-90s Warm status 35s Hot status 1s
Work voltage	12-24V
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +45°C
Humidity	15%--95%

4. Installation instructions

4.1 Preparation: Choose SIM card, need insert a GSM SIM card into device.

Please insert SIM card before turning the device power switch to on; The SIM card need open the GPRS function; Please make sure SIM card with full balance.

4.2 Installation

The device is hidden type installation, we suggest the device installing by professional institution. Please pay attention to the following points:

4.2.2 The device has built-in GSM and GPS antenna, make sure the receive side upward and there is no metal shielding.

4.2.3 Recommended installation place: ①The hidden place in the board below the front windscreen; ② The hidden place around former dashboard (nonmetal material for skin); ③The hidden place in the board below the back windscreen.

Notice: 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, then please change the installation place.

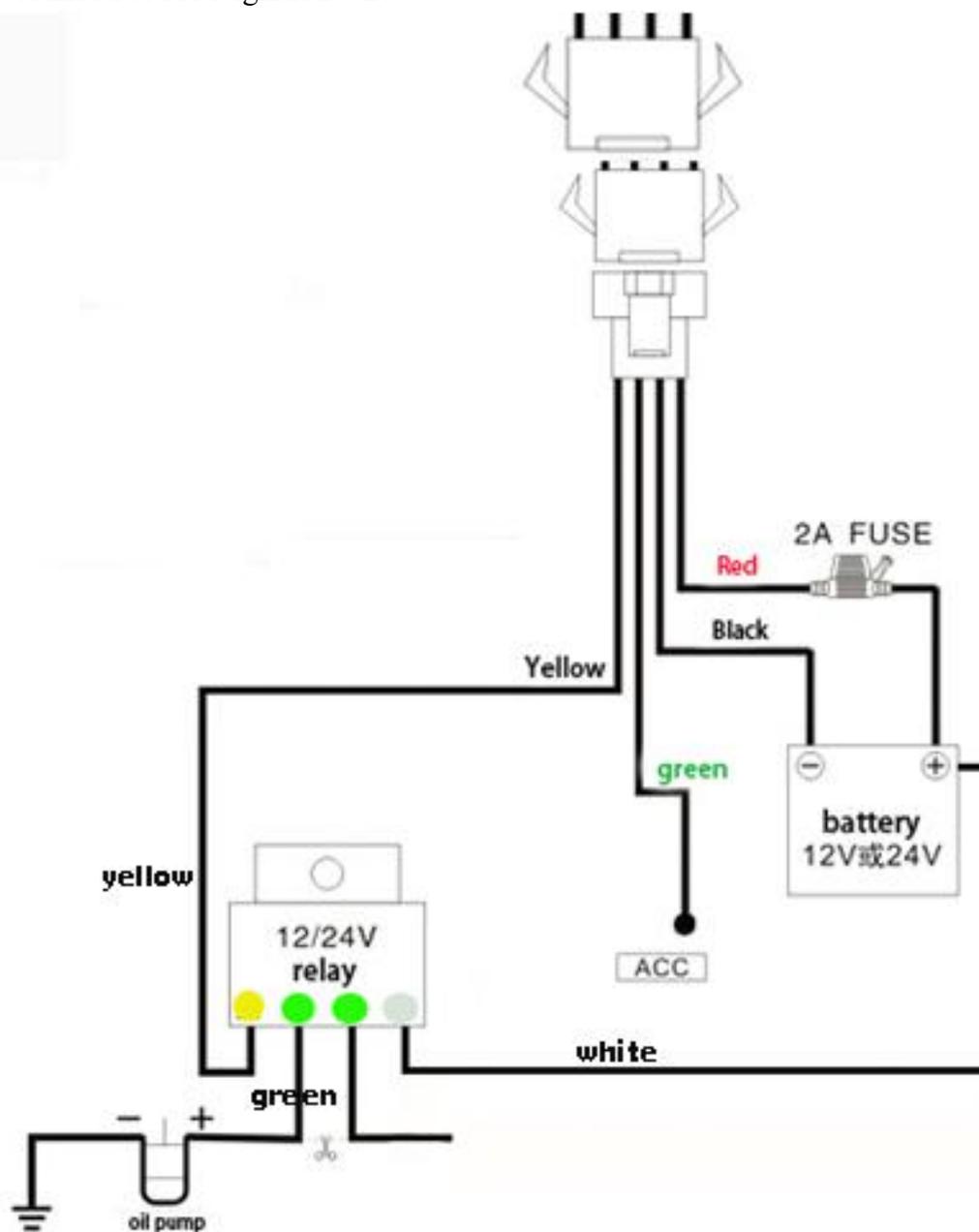
4.3 Device light description

Light	Signal	Normal status
Red light	Power	Stable light on
Yellow light	GSM signal	Stable light on
Blue	GPS signal	Stable light on

Note: the three lights must be stable lighting represents device can work normally. Device will turn into sleep mode with lights off after around 3 minutes, it will wake up if make a call to device number or detect any vibration.

5. Wires connection

- 1) Red wire connects to vehicle power anode
- 2) Black wire connects to vehicle power cathode
- 3) Yellow wire connects to oil or circuit control wires
- 4) Green wire connects to ACC ignition wire



6. Function setting

6.1 Initialization

Send SMS “**begin+password**” to the unit, it will reply “BEGIN,CONFIG OK ” and initialize all the settings to default factory settings. (default password:

123456)

For example: send SMS “begin123456”, it will reply “BEGIN,CONFIG OK ”.

The “+” in the command, please don’t type “+”, space means press the space keyboard on your cell phone.

6.2 Change Password

6.2.1 Send SMS “**password+old password+space+new password**” to the unit to change the password.

For example: send SMS “password123456 888888” to the unit. If succeeded, “PASSWORD,CONFIG OK” will reply to your cell phone from the device tracker. Make sure the new password is in 6 digits, or else the tracker cannot recognize the password.

6.3 Authorization

There are 5 numbers to be allowed to authorize in the tracker at most.

6.3.1 Authorization: Send SMS“**admin+password+space+cell phone number**” to set up an authorized number, the other central number should be set by the first authorized number, if the number is successfully authorized, the unit will reply” ADMIN,CONFIG OK” by SMS.

6.3.2 Delete authorization: Send SMS“**noadmin+password+space+authorized number**” to delete the authorized number.

6.4 Set up monitor central number

There is 1 number to be allowed to set as central number.

All alarms will be received by central number.

6.4.1 Setup: send command “**centernum+password+space+number**” to tracker, it will reply “centernum ok”. After setup monitor center number, the messages of auto track by SMS will be set to this center number, if all alarms need to be sent to this number too, then this center number must be setup as authorized number.

6.4.2 Cancel: Send “**centernum+password**” to tracker, it will reply “CENTERNUM,CONFIG OK”.

6.4 Single Tracking

Make a missed call to device number or Send SMS “**smslink+password**” to device number, it will reply a real time tracking message info as below:

A screenshot of an SMS message containing tracking information. The text is as follows:

[http://maps.google.com/
maps?q=N22.674878,E114.023
439](http://maps.google.com/maps?q=N22.674878,E114.023439) Speed:0 km/h
Time:10:46:12 Date:13/12/12
IMEI:[366866020133735](#)
接收时间 : 11:38

6.5 Continuous Tracking Automatically

Send SMS command “**ITV+password+space+upload time interval**” to the tracker device.

For example: send SMS “ITV123456 10” it will report data to server at 10s time interval when vehicle is moving; device will stop sending GPS location once vehicle is static.

6.6 Cell ID Tracking

You must set up the APN of your local GSM network for the SIM card in tracker first before using this function, if there is user name and password for

GPRS login, Please refer to following to configure the APN, user name and password for GPRS login.

After configure the APN, send SMS “**cell+password**” to device, it will reply cell ID info.

6.7 IMEI Checking

Send SMS command "**getimei+password**" to the unit. E.g. Send SMS command "getimei123456" to the tracker device, an IMEI number in 15 digits will reply to your cell phone.

6.8 Alarms

Note: All Alarms will be sent to Central Number

6.8.1 Power off alarm

Setup: Send “**extpower+password+space+1**” to activate, it will send SMS alarm to central number when external power is cut off.

Cancel: Send SMS “**extpower+ password+space+0**” to deactivate it.

6.8.2 Geo-fence alarm

Set up a geo-fence for the tracker device to restrict its movements within a district. The unit will send SMS to the central number when it detects alarm.

Remark: 0 represents close alarm; 1 represents out fence alarm.

6.8.2.1 Set Up:

Send SMS“**stockade+password+space+semi-diameter+space+alarm type**” to unit to set the restricted district. In case of breach, it will send SMS “stockade!+geo-info” to the central number.

For example: send SMS “stockade123456 500 1” stands for based on device current coordinates as center, 500 is semi-diameter, set 1 as out fence alarm type.

6.8.2.2 Cancel: Send SMS “**nostockade+password**” to deactivate this function.

6.8.3 Overspeed alarm

Set up: Send SMS “**speed+password+space+80**” to the unit (suppose the speed is 80km/h), and it will reply “speed OK!”. When the target moves exceeding 80km/h, the unit will send SMS “speed+Geo-info” to the central number.

Cancel: Send SMS “**speed+password+space+0**” to deactivate the overspeed alarm.

Remark: It is recommended that the speed alarm is set at not less than 30km/h. For below that rate; it may cause the excursion of the GPS signal influenced by clouds etc.

6.8.4 ACC working alarm

1) To active this functions, send "**ACC+password+Space+1**" to tracker, it will reply "ACC,CONFIG OK". And tracker will send "ACC on+latitude & longitude" to central number when detect ignition action, that means the vehicle has been started.

2) Send "**ACC+password+Space+0**" to disabled this function, tracker will reply "ACC,CONFIG OK".

6.8.5 Vibration alarm

1) Send SMS “**vibrate+password+space+0**” to deactivate this function.

- 2) Send SMS “**vibrate+password+space+1-3**” to set up vibrate level from 1 to 3 (1 is strongest level, 3 is weakest level)

6.9 Set all alarm mode

Send SMS"**KC +password+space+0**" to tracker to close the function.

Send SMS"**KC +password+space+1**" to tracker to choose alarm by SMS.

Send SMS"**KC +password+space+2**" to tracker to choose alarm by calling.

6.10 Cut off the Oil and Power System

Send SMS command “**DY+password+space+1**” to the tracker device, it will reply “DY CONFIG OK” to your cell phone from the tracker device, and stop your car oil pump or elec as well.

6.11 Resume the Oil and Power System

Send SMS command “**TY+password+space+1**” to the unit, It will reply “TY,CONFIG OK” and resume your car oil pump or elec as well.

6.12 Switch GPRS & SMS mode

Send SMS"**GPRS +password+space+0**" to tracker to close the GPRS function.

Send SMS"**GPRS +password+space+1**" to tracker to activate GPRS function

Note: default GPRS mode already.

6.13 Switch GPRS & SMS mode

Send SMS"**UDP+password+space+0**" to tracker represents TCP mode.

Send SMS"**UDP +password+space+1**" to tracker represents UDP mode.

Note: default TCP mode already.

6.14 Check the Vehicle State

Send SMS command “**check+password**” to the tracker device in the vehicle, it will reply following SMS:

```
CHECK,Imei:355488020116873,A
pn:CMNET,IP:116.205.4.114:8169,
Cnum:,Gps:1,Gsm:100,itv:20,500,
TZ:0,OS:1,GF:500,1,0,vib:5
```

imei: unique IMEI number for register in tracking platform.

apn: APN info. Of SIM card.

IP: server IP and Port number.

Cnum: central number for receive alarms.

GPS: 1 means GPS working, 0 means searching signal, -1 means GPS sleep for lower power consumption purpose.

GSM: 100 means GSM signal value normal.

ITV: moving time interval is default 20s,static time interval is 500s.

TZ: time zone is default GMT 0.

OS: overspeed alarm, 0 means deactivate, 1 means activate.

GF: 500,1,0: Geo-fence function, 500meters, 0,0 close alarm; 1,0 out fence alarm

Vib: vibration level..

6.15 Time Setting

Send SMS command “**timezone123456+space+(timezone*60)**” to the tracker unit, If succeed, It will reply “time OK”

For example: Send SMS “timezone123456 330”, +5.5 is India time zone, so it is $5.5*60=330$; If your country time zone is minus -6, send SMS “time zone123456 -360”.

6.16 GPRS Setting

User must send SMS via cell phone to set up APN, IP and port before starting tracking by GPRS on tracking system.

6.17.1 Set APN

1) APN standards for Access Point Name and differs from country to country.

For more information about your local APN, please inquire with your local GPRS network operator.

2) Send SMS “**APN+password+space+local APN+space+APN name+space+APN password**” via a cell phone and if succeeded, the tracker will return the message “APN OK”.

3) E.g. Send SMS command “APN123456 CMNET”. If succeeded, it will reply SMS “APN OK”

Notes: CMNET is the APN of one of china GPRS Network Operator (China mobile), it has no APN name and Password.

6.17.2 Set IP(DNS) and Port

Send SMS: “**adminip+password+space+IP Address+space+port number**”, If succeeded, it will reply “ADMINIP, CONFIG OK”.

E.g. Send SMS: “adminip123456 121.201.109.14 6969” to the tracker device, (121.201.109.14 is IP, 6969 is port).

6.18 Web platform GPS tracking software

Web based platform www.secumore1818.com, Use IMEI login, default password 123456.

Web platform features as below:

- ◆ Real time tracking
- ◆ History trace replay

- ◆ Platform disable oil or recover oil
- ◆ Multiple user fleet management
- ◆ Detect vehicle alarms and status
- ◆ Support Andriod & IOS APP tracking

7 . Faults & the Solutions

Faults	Solution
yellow light flashing	Its failed to read SIM card, need re-install SIM card; after inserting SIM card, then turn on power
blue light flashing	GPS not located, check if working outside not in room; install place has no metal cover
Three light turn off	Lights will enter sleep after stable lighting on 3 minutes and not effect GPS working, when calling device again will wake up lights
Can't track online	Send SMS "check123456" check IP port ,APN,GPS status.
Device has no reply	Check if already existing admin number; SIM card has balance

Guarantee Card

User Name		Phone	
Address			
Model No		IMEI No	
Purchase Date		Invoice No	
Seller Name			
Address			
Seller Contact			
<p>1. Within warranty period, if any damage caused by the product's own quality, user can bring the purchasing invoice and warranty card to supplier to arrange repair.</p> <p>2. Those machines that has refitted or added other functions by user own will not be accepted to repair.</p> <p>3. Attempt to disassemble the product can damage it and void your warranty.</p> <p>4. This card and the purchasing invoice are both considered as a receipt for repair, please reserve it carefully.</p>			

