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# GSM/GPRS/GPS TRACKER USER MANUAL



## Preface

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. The manufacturer assumes no responsibility for any errors or omissions in this document.

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## 1. Introduction

This product is based on GSM / GPRS network and GPS satellite positioning system, built-in GSM and GPS antenna, built-in 2.4G attendance management functions. Insert into the car OBDII interface directly to read the data from car computer, you can locate and manage the vehicle remotely via SMS or GPRS. Easy to install, no wiring harness.

## 2. Applications

Mainly used for vehicle management and location tracking services.

### 3. Product Appearance



### 4. Accessories

No.	Photo	Item	Specification	Note
1		OBD extension cord	1.5Meter	Optional

### 5. Specification

Content	Specification
DIM	64.5×50×27mm
Weight	60g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS Sensitivity	-165dBm
GPS Accuracy	5m
GPS Start Time	Cold status 30s Warm status 11s Hot status 1s
Backup Battery	Chargeable changeable 3.7V 200mAh Polymer Li-Battery
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +70°C
Humidity	5%--95% non-condensing

## 6. Operating Instructions

### 6.1. OBD compatibility

#### 6.1.1. Protocol compatibility

The product supports existing OBD protocol:

- SAE J1850 PWM
- SAE J1850 VPW
- ISO 9141-2
- ISO 14230-4 (KWP2000\_5BPS)
- ISO 14230-4 (KWP2000\_FAST)
- ISO 15765-4 (CAN500\_11BIT)
- ISO 15765-4 (CAN500\_29BIT)
- ISO 15765-4 (CAN250\_11BIT)
- ISO 15765-4 (CAN250\_29BIT)

#### 6.1.2. Vehicle Compatibility

**Applies to all vehicles which are compatible with OBDII (Including, but not limited to the following models)**

- US-produced gasoline vehicles are sold after 1996; all Chinese domestic car are sold after 2003;
- European gasoline vehicles are sold after 2001 or are produced after 2000; Diesel vehicles are sold after 2004 or are produced after 2003.

**Support vehicle models:**

No.	Model	No.	Model	No.	Model	No.	No.
1	Mercedes-Benz	2	BMW	3	Audi	4	Land Rover
5	Buick	6	Chevrolet	7	Ford	8	Honda
9	TOYOTA	10	Volkswagen	11	Hyundai	12	SSANG YONG
13	Citroen	14	Mazda	15	subaru	16	Roewe
17	Peugeot	18	Chery	19	Cadillac	20	JINBEI
21	Haima	22	Kia	23	BYD	24	SKODA
25	FAW	26	Nissan	27	Geely	28	JMC
29	Dongfeng	30	MITSUBISHI	31	Porsche	32	Suzuki
33	Soueast	34	Isuzu	35	Acura	36	Volvo

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## 6.2. SIM CARD Installation

SIM Card:

Open the cover with SIM Card marking, and insert the SIMCARD as picture shows (chip down), and then put cover back.

Note:

- Make sure there is enough balance in the SIM card.
- PIN code should be locked.
- Displaying incoming calls function is available.



## 6.3. Plug into the car OBD socket

After successfully inserting OBD interface of the car, it will automatically search for a matching protocol, both green light and blue light flash quickly for 5 times indicates that the match is successful.

## 6.4. GSM/GPS LED Indicator

- Green LED indicator on: No GSM network signals.
- Green LED indicator flashes fast (one time each second): GSM Network signal is normally, and tracker works under GSM mode.
- Green LED indicator flashes slowly (one time each three second): Tracker works under GPRS mode.
- Blue LED indicator flashes: GPS signal is normal.
- Blue LED indicator off: No GPS signals.

Send command: “led+password+space+on” to tracker, LED indicator will works normally.

Send command: “led+password+space+off” to tracker, LED indicator will be turned off, and tracker works in a more covert condition.

## 6.5. Initialization

Send SMS “begin+password” to the unit, it will reply “begin ok” and initialize all the settings to default factory settings. (default password: 123456)

E.G: send SMS “begin123456”, it will reply “begin ok”.

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## 6.6. Change Password

- 6.1.1 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 ok” will reply to your cell phone from the device tracker.
- 6.1.2 Be sure to keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.
- 6.1.3 Attention: Make sure the new password is in 6 digits Arabic numbers, or else the tracker cannot recognize the password.
- 6.1.4 When reading this user manual, you will notice that we have used "+" and "space" between some words; "+" between two words means they should be written together as one word and "space" between two words means you should leave one character space between two words.

## 6.7. Authorization

There are 5 numbers to be allowed to authorize in the tracker at most. Please authorize phone numbers before using this tracker device to receive alerts SMS and call authorized numbers via the SOS button.

- 6.7.1 Call the tracker for 10 times continuously and get its position, then it will save the cell phone number as the authorized number automatically.
- 6.7.2 Authorization: Send SMS “admin+password+space+cell phone number” to set up an authorized number, the other authorized numbers should be set by the first authorized number, if the number is successfully authorized, the unit will reply“ admin OK” by SMS.
- 6.7.3 Delete authorization: Send SMS “ noadmin +password+space+authorized number” to delete the authorized number.
- 6.7.4 If you want to track the target when it enters into another country, you must add the country code before the cell phone number. You should authorize your number in international format as follows: “admin123456 008613322221111” to tracker to set 13322221111 as an authorized number.

## 6.8. 2.4G Attendance Management (Model B)

With the built-in 2.4G transmitter module, model B can work with attendance management center for automatic attendance management for vehicles.

The content to be sent by the 2.4G transmitter module can be configured, and default content is the tracker’s IMEI, e.g, send “carid+password+space+YB888888” to tracker device, it will set the license number as the message . “YB888888”is the license number, it should be combination of character and numbers, less than 15 byte.

## 6.9. Request for OBD data by SMS

Send sms command “obdmsg+password” to gps device, below information will be returned:  
863070010034246 15 digital IMEI No.

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T: 05/21/13 15:25:50	Time
ODO:	Accumulative mileage
FLI:	remaining fuel
AF:	Average Fuel
Dtime:	Driving time
speed:	Speed
Pload:	Power load
TEMP:	Water temperature
ATP	Throttle percentage
RPM	Engine speed
BAT	Battery voltage
DTC	Diagnostic trouble code

For “Cumulative mileage, remaining fuel, average fuel consumption”, tracker will identify intelligently and display it if vehicle protocol supports, otherwise, no “ODO, FLI” in the message.

If it supports “cumulative mileage”, then you can set the travelled mileage; if it supports “remaining fuel”, then you can set fuel tank volume.

The “average fuel” means the average fuel consumption of 100km; it will be showed only after driving 10km at least.

## 6.10.Set mileage

Send SMS "ODO+password+space+100000", mileage units is kilometer, tracker will reply "Set ODO ok!" after succeed. Device will automatically add this travelled mileage in the value of cumulative mileage.

## 6.11.Set Fuel tank volume

Send SMS "tank+password+space+60", fuel tank volume in liters (L), Tracker replies "Set tank ok!" after succeed . The default fuel tank volume is 60 liters.

## 6.12.Notification of Vehicle fault

When a vehicle malfunction, the vehicle malfunction indicator light is on, diagnostic trouble code will be automatically sent to the authorization number.

If in GPRS mode, Device will report to server center every time when vehicle starts, and only one notification in SMS mode.

## 6.13.Vehicle maintenance notification

Send SMS "service123456 365d 10000", tracker replies "service ok!" after succeed, when the travelled mileage over 10,000 kilometers, or when the device accumulated 350 days of work, it will send maintenance notice to the authorized numbers15 days in advance.

If in GPRS mode, Device will report to server center every time when vehicle starts, and only one notification in SMS mode.

## 6.14. Single Locating

If there aren't any authorized number set-up, it will reply all calls with a location report; if there are authorized numbers set-up, then it will not respond when an unauthorized number calls it.

If you call it from authorized phone number, it will hang up and report a real-time location as below:



\*When lost fix to satellites, it will track by LBS / CELL-ID. And the SMS will include two positions:

- GPS coordinates of the last known position.

-LAC code. Open [www.gpstrackerxy.com](http://www.gpstrackerxy.com) find “manual track”, and put the received code in LAC and Cell-ID fields to location by LBS technology.

## 6.15. Auto track continuously

### 6.15.1. Track with limited times upon time interval:

Send SMS command “fix030s005n +password” to the tracker device, it will report the latitude & longitude at intervals of 30 seconds for 5 times. (s:second, m:minute, h:hour). This command set must be in 3 digits and the maximum value is 255.

e.g. fix030s005n123456.

### 6.15.2. Track with unlimited times upon time interval:

Send SMS “fix030s030m\*\*\*n +password” to the tracker device, it will reply the latitude & longitude continuously at interval of 30 seconds when ACC turn on. When ACC turn off ,it will reply the latitude & longitude continuously at interval of 30 mins.

Note: the interval must not less than 10s.

### 6.15.3. Smart track upon time and distance interval:

Please set "track with unlimited times upon time interval" before this function, and send "distance+password+space+distance", tracker will reply "Distance ok", and then tracker will locate upon both the pre-set time and distance.

E.G: Send "distance123456 0050", it means distance is 50 meters; the number must be 4 digits Arabic numbers. Set this function on web server: Set time interval first and then distance interval, tracker will locate upon the time and distance.

### 6.15.4. Cancel

Send SMS "nofix+password" to the tracker device to cancel the "auto track".

## 6.16. Turning points update automatically

The tracker will update the positions automatically to web server once the vehicle changing driving direction over pre set angle value to form a smooth trajectory consistent with the actual road, this function is only effective in GPRS mode.

Send "angle+password+space+angle" to tracker, it will reply " angle ok".

The angle must be 3 digits Arabic numbers, default angle value is 30 degree. E.g. angle123456 030.

## 6.17. GPS drift suppression

This function is deactivated as default, send "suppress+password" to tracker, it will reply " suppress drift ok".

The GPS data stop updating if vehicle is not driving (ACC is OFF) and latitude and longitude always keep same, and GPS data updates automatically when vehicle is moving.

Cancel: send "nosuppress+password" to tracker, it will reply " nosuppress ok ".

## 6.18. Location based service (LBS) / Cell-ID locating

If the tracker cannot establish a solid GPS Fix, it will calculate its location using Cell-id GSM locating, location reports will include the GPS coordinates of the last known position as well as a LAC code, Entering the LAC code to the "Manual Track" menu of web tracking platform will enable you see the tracker's current location, you can also send command "address+password" to the tracker to request exact address. Tracker will automatically switch to tracking by LBS in GPRS mode. Accuracy of LBS also known as Cell-id Tracking depends on the GSM signal reception.

Note: This feature can be used normally in most areas according to the signal of GSM network. It may not be available in some areas.

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## 6.19.Exact street address

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 6.35 to configure the APN, user name and password for GPRS login.

After configure the APN, send "address+password" to device, it will reply SMS including exact address. For example: No.8, Guankou 2nd Rd, Nantou, Nanshan district, Shenzhen, Guangdong, china.

## 6.20.Voice Monitor

The command to switch between Track and Monitor mode are "tracker" and "monitor".

The default mode is "track" (Track mode).

Send SMS "monitor+password" to the unit, and it will reply "monitor ok!" and switch to "monitor" mode.

Send SMS "tracker+password" to the unit, it will reply "tracker ok!" and restore to "track" mode.

## 6.21.Data logging

Auto logging: When the tracker devices lost GSM signals or fall offline from GPRS, tracker will store the tracking position and alerts automatically upon the pre-set condition, when GSM signals get back, all the event alerts will be auto-sent to the authorized numbers or monitoring platform (server), but the stored tracking data should be loaded to the monitoring platform via SMS command.

Storage upon times: Send SMS: "save030s005n+password" to the tracker unit, it will reply "save ok", and will store the lat, long locations every 30 seconds for 5 times. (S: second, m: minute; h: hour).

Unlimited storage: Send sms:"save030s\*\*\*n+ password" to tracker device, it will reply "save ok".

Cancel logging: Send SMS "nosave+password", e.g. nosave123456

Storage Clearance: Send SMS: "clear+ password" to tracker device, it will reply "clear ok".

Storage Volume: It depends on the capacity of the SD card inserted in the tracker device.

The logged data in SD card can be copied to computers through card reader, and then the data route can be checked by importing data in the menu "Data Import" of web platform [www.gpstrackerxy.com](http://www.gpstrackerxy.com).

## 6.22.Data Load

Current date Load: Send SMS: "load+ password" to tracker device, it will reply: "load ok" if the device is working well under GPRS mode; if not, it will reply "load fail! Please check gprs" that means device does not work under GPRS mode. Data can only be load to monitor platform via GPRS.

Specified date Load: Send SMS: "load+ password+ space+ year month date" to tracker device, it will reply: "load ok" and load the tracking data to the monitoring platform upon the valid time you choose. For Example: send SMS: "load123456 20110425" to the tracker device, means to load the tracking data of 25th April 2011 to monitoring platform.

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## 6.23. Decide how many times of alarm message

You can decide how many times of the alarm message to be sent, For those alarm message sent in cycle, you can limit the times the alarm message to be sent. send SMS “xtime+password+005” to tracker, alarm message will be sent 5 times once alarms are triggered .

Alarm SMS will be sent 5 times by default.

## 6.24. Alarm Functions

### 6.24.1. Low Battery Alarm

Send SMS “lowbattery+password+space+on”, it will send SMS “low battery+latitude/longitude” to authorized numbers 2 times in total at 15 minutes interval when voltage of battery is going to be about 3.55V.

This function is activated by default, send SMS “lowbattery+password+space+off” to deactivate.

### 6.24.2. External Power off alarm

Send “extpower+password+space+on” to activate, it will send SMS “power alarm+latitude/longitude” to authorized numbers every 3 minutes when external power is cut off.

This function activates as default.

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

### 6.24.3. GPS blind Spot alert

This function deactivates by default, To activate it pls send SMS “gpssignal+password+space+on”, it will send alert SMS “no gps+last valid latitude/longitude” to authorized number before lost signal

Send SMS “gpssignal+password+space+off” to deactivate.

### 6.24.4. SOS

Long Press the SOS button for 3 seconds, the tracker device will send SMS “help me!+lat./long.” to all the authorized numbers at interval of 3 minutes. It will stop sending such a SMS when any authorized number reply SMS “help me!” to the tracker.

### 6.24.5. Geo-fence

6.24.5.1. Set up a geo-fence for the tracker device to restrict its movements within a district. The unit will send SMS to the authorized numbers when it goes out of this district.

6.24.5.2. Set up: When the unit stays immobile in a place for 3-10 minutes, the user can send SMS “stockade+password+space+latitude,longitude;latitude,longitude” to unit to set the restricted district. In case of breach, it will send SMS “stockade!+ latitude & longitude” to the authorized numbers at interval of 3 minutes.

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, it will alarm at interval of 3

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minutes.

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

## 6.24.6. Multi-area management

### 6.24.6.1 set area

Send SMS command "area+password+space+latitude,longitude+space+areaname,distanceM" to tracker(distance unit: M for meter, K for kilometer), it will reply "area01 ok”

For example: Send "area123456 22.353648,113.543678 school,800M”

Note: 5 areas at most and the distance between two points can't be less than the total distance in the 2 commands, and different areas can't cover each other

### 6.24.6.2 Delete areas

Send SMS command:"noarea+password+space+area name", tracker will reply:"noarea ok"

### 6.24.6.3 Rename and set distance

Send SMS command "rename+password+space+old name;new name,distanceM" to tracker, if name is not repeated and area doesn't cover others, it will reply "rename ok!" for successful configuration

For Example: Send"rename123456 area01;school,800M", it means the new area name is "school", and covers area of a radius of 800 meters

### 6.24.6.4 Activate multi-area management

Send SMS command "area+password+space+on" to tracker, it will reply "Area on ok!", when tracker enter the pre set area, it will send SMS "area name+latitude & longitude" to all the authorized phone number, and send same SMS when goes out of the area

### 6.24.6.5 Deactivate Multi-area management

Send SMS command "area+password+space+off" to tracker, it will reply"area off ok!”.

## 6.24.7. Movement alarm

6.24.7.1. set up: when the unit stays immobile in a place for 3-10 minutes with GPS signal reception , the user can send SMS “move+password+space+0200” to the tracker (Suppose area of a radius of 200 meters, it supports 4 digits at most. Unit: Meter). It will reply “move OK”. In case of such a movement (the default distance is 200m), it will send SMS “Move+ latitude & longitude” to the authorized numbers.

6.24.7.2. Cancel: Send SMS “nomove+password” to deactivate the movement alarm.

## 6.24.8. Over speed alarm

6.24.8.1. Set up: Send SMS “speed+password+space+080” 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 ONE SMS “speed+080!+ latitude & longitude” to the authorized numbers in 3 minutes.

6.24.8.2. Cancel: Send SMS “nospeed+password” to deactivate the overspeed alarm

Note: The recommended speed should be not less than 30km/h. For below that rate, it will be effected the accuracy by GPS signals drift etc.

## 6.25. Set up arm/disarm by SMS

### 6.25.1. Arm by SMS

Send SMS command "arm+password" to the tracker device in the vehicle. It will reply "Tracker is activated" and enter into armed state

### 6.25.2. Disarm by SMS

Send SMS command "disarm + password" to the tracker device in the vehicle, it will reply "Tracker is deactivated" in both armed and disarmed state and enter into disarmed state.

## 6.26. Alarms under Arm State

### 6.26.1. ACC alarm

The unit will send SMS "ACC alarm+lat/long" to the authorized number at interval of 3 minutes when the engine of the car is turned on, that is the key is rotated to ACC.ON position to start the car in arm state; send "disarm+password" to stop it.

### 6.26.2. Built in Acceleration sensor Alarm

6.26.2.1. **The** tracker is built in three axis acceleration sensor, the tracker can detect it in arm state when the vehicle move, tilt or shock and send only one alarm SMS "Sensor alarm+lat/long" to the authorized number in 3 minutes.

6.26.2.2. The sensitivity of the built-in Acceleration sensor has three different levels, the first level is the most sensitive.

First level: send command" sensitivity+password+space+1".

Second level: send command" sensitivity+password+space+2".

Third level: send command" sensitivity+password+space+3".

## 6.27. Sleep Mode

Sleep Mode	SMS Mode	GPRS Mode	Set Less GPRS Traffic in GPRS Mode
No Sleep	Work	Online	When no shock alarm, ACC Off and no any triggered alarm, GPRS will disconnect and switch to sleep by shock sensor in SMS mode. Shock sensor alarm, ACC on or any triggered alarm can awake it, and GPRS connect
Sleep by time	SMS ,Calling or any triggered alarm(exclude shock sensor alarm) can awake the tracker to work for 5 minutes, after 5 minutes fall asleep	Online	When <b>no</b> shock sensor alarm, ACC Off, and no any triggered alarm, GPRS will disconnect and switch to sleep by shock sensor in SMS mode. shock sensor alarm, ACC on or any triggered alarms can awake it, and GPRS connect

	<p>again, GPS module shut off, GSM module work in low power consumption. SMS ,Calling, or any triggered alarm(exclude shock sensor alarm) can awake it.</p>		
<p>Sleep by shock sensor</p>	<p>No shock alarm, No ACC alarm and no other alarms, the unit will enter sleep by shock sensor with GPS off, GSM module works in low power consumption. Shock, ACC, calling, SMS and other alarms can awake the tracker to work.</p>	<p>online</p>	<p>GPRS will be offline and switch to sleep by shock sensor in SMS mode when it doesn't detect any vibration ,ACC alarm and other alarms triggered. Vibration alarm, ACC alarm and any triggered can awake it online.</p>
<p>Deep Sleep by Shock Sens or</p>	<p>No shock alarm, no ACC alarm and no other alarms, the unit will enter sleep mode with GPS &amp;GSM off and minimum power consumption. SMS and calling cannot reach. Shock alarm, ACC working and other hardware alarms trigger can awake the tracker to work.</p>	<p>online</p>	<p>GPRS will be offline and switch to deep sleep by shock sensor in SMS mode when it doesn't detect any vibration, ACC and other triggered alarms. Vibration or any hardware triggered can awake it online, SMS and calling cannot awake it</p>
<p>Start Work on specifi c time</p>	<p>If unit is in Disarm state ,After setting this mode, the unit will work in minimum power consumption with GSM &amp;GPS off ,and SMS or calling cannot reach. At</p>	<p>Working online at specific time. during non-working time, the unit will be offline and work on specific time</p>	<p>Working online at specific time. during non-working time, the unit will be offline and work on specific time</p>

	<p>specific time ,the unit will automatically wake to send specific time report and work for 5 minutes. during non-working time, SOS alarm can awake the unit till SOS alarm is canceled. If in Arm state ,alarms can be triggered and awake unit to work till alarm is canceled</p>		
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### 6.27.1. Sleep by time

Send SMS command "sleep+password+space+time" to tracker device, tracker will reply "sleep time ok" if none of the alarms has been set and no operations, tracker will fall asleep in 5 minutes, GPS module shuts down, LED will be off ,calling or SMS can awake the tracker. If these alarms have been set, tracker will sleep by detecting shock sensor. e.g. sleep123456 time

### 6.27.2. Sleep by shock sensor

Send SMS command "sleep+password+space+shock"to tracker, it will reply "sleep shock ok", and will enter sleep mode if no vibration is detected, GPS module shuts down, LED will be off . Shake or any operation can awake the tracker. e.g. sleep123456 shock

### 6.27.3. Deep Sleep by shock sensor

Send SMS command "sleep+password+space+deepshock"to tracker to activate deep sleep by shock sensor, it will reply "sleep deepshock ok", and will enter deep sleep mode if no vibration is detected, GPS and GSM module shuts down, it will run in supper lowest power consumption mode. **SMS or calling can't awake the tracker**. Alarms can be triggered normally, after alarm cancelled, tracker come back to deep sleep mode again. e.g. sleep123456 deepshock.

### 6.27.4. No Sleep Mode

Send SMS command "sleep+password+space+off" to tracker, it will reply "sleep off ok". Tracker won't sleep, and GSM, GPS module keep working .This mode is the default mode. e.g. sleep123456 off.

## 6.28.Start Work at Specific Time

Send "schedule+password+space+1h" to awake the tracker each hour, and location will be automatically sent after wake up.(m: minute, h: hour, d:day). The maximum time interval is 3 digits, and can't exceed 30 days. GSM and GPS module shut down, tracker runs in supper lowest power consumption, calling or sms

can't awake the tracker. Alarms can be triggered normally, after alarm cancelled, tracker come back to mode of start work at specific time again. Wake up notification will be sent at the specific time. e.g. schedule123456 1h

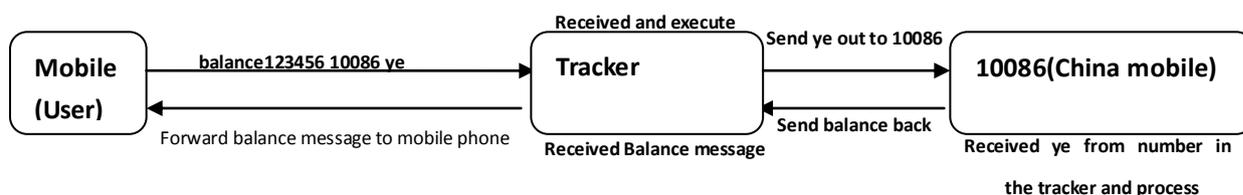
Cancel: after wake up, send "noschedule+password" to deactivate this function. e.g. noschedule123456.

## 6.29. Forward the third parties' message

- 6.29.1. Send SMS "forward+password+space+third parties phone number" from authorized phone number, tracker will reply "forward ok", and supports 1 third parties phone numbers at most.
- 6.29.2. For example, set the phone number of the service provider of the simcard in the tracker, when charge remind message coming in, tracker will forward it to authorized phone number.
- 6.29.3. Cancel: Send SMS command "noforward+password".

## 6.30. SIM card Balance Inquiry

- 6.30.1. Send SMS command "balance+password+space+carrier's phone number+space+code" to tracker, it will forward the code to carrier's phone number and return the balance message received from carrier's phone number.
- 6.30.2. How it works: Take china mobile for example, tracker will remember the number sending this command (user's phone number), the carrier's phone number and the code; mobile users can send "ye" to china mobile number 10086, and 10086 will send user's balance back, following is an illustration how this function works.
- 6.30.3. And then send the code to carrier's phone number, and forward the message from carrier's phone number to user's phone number.



## 6.31. Check the Vehicle State

Send SMS command "check+password" to the tracker device in the vehicle. E.g check123456. It will reply following SMS:

Power:ON Battery:100%

External power and internal battery state

GPS:OK/NO Signal

GPS signal digit

GPRS:ON/OFF line

GPRS state

GSM Signal:32

GSM signal digit

Service:+15Day +500Km

Maintenance Reminder: Only 15 days left for vehicle Maintenance, need vehicle maintenance after 500Km.

Oil:90.1%

Oil digit, requires vehicle support, recognize automatically

---

DTC:P0001

Show diagnostic trouble code when it has

APN: cmnet

UP:

IP: 104.250.138.146

PORT: 9000

## 6.32. Check IMEI

Send SMS command "imei+password" to the tracker device. E.g: Send SMS command "imei123456" to the tracker device, an IMEI number in 15 digits will reply to your cell phone.

## 6.33. Terminal (local) Time Setting

Send SMS command "time+space+zone+password+space+time" to the tracker device, If succeed, It will reply "time OK"

For example: Send SMS "time zone123456 8", 8 is Chinese time zone, If your country locates in the Western Hemisphere, please add a minus before the time zone, for example, send SMS "time zone123456 -8".

## 6.34. Reset Hardware

Send SMS command "reset+password" to tracker device, it will reply "reset ok". And the GSM module and GPS module in the tracker will be reset.

## 6.35. GPRS Setting

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

### 6.35.1. Configure APN

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.

Send SMS command "APN+password+space+your local APN" to tracker via a cell phone and if succeeded, the tracker will reply "APN OK".

E.g. Send SMS command "APN123456 CMNET". If succeeded, it will reply "APN OK"

Notes: 123456 refer to password of tracker and CMNET is the APN of one of China GPRS Network Operator (China mobile).

### 6.35.2. GPRS User Name and Password Setup

In most countries, the user name and password involving GPRS login are not compulsorily necessary, therefore, the entry can be skipped. For those countries requiring user name and password, please configure as following:

Send SMS "up+password+space+user+space+password" If succeeded, it will reply "user, password ok!" .

---

For example, send SMS command “up123456 jonnes 666666” to the tracker, and if succeeded, the tracker will reply “user, password OK”

Note: 123456 is tracker device password, jonnes is the user name for GPRS login, 666666 is the password for GPRS login.

### 6.35.3. IP and Port Setup

Send SMS command “adminip+password+space+IP Address+space+Port Number”. If succeeded, it will reply “adminip OK”.

For example, send SMS command “adminip123456 104.250.138.146 9000” to the tracker device, If succeeded, it will reply “adminip OK”( 123456 is default password, 104.250.138.146 is IP, 9000 is port).

### 6.35.4. Switch to GPRS mode

**6.35.4.1.** Send SMS command “GPRS+password” to the tracker, and it will reply “GPRS ok!” it means tracker device has switched to “GPRS” mode.

**6.35.4.2.** Send SMS command “SMS+password” to the tracker, it will reply “SMS ok!” and restore to “SMS” mode, The default mode is “SMS”.

### 6.36. TCP/UDP Switch

Command: "gprs+password,0,0" switch to TCP mode, server will reply to device, this is the default mode.

Command: "gprs+password,1,0" switch to TCP mode, server will not reply to device.

Command:"gprs+password,0,1" switch to UDP mode, server will reply to device.

Command:"gprs+password,1,1" switch to UDP mode, server will not reply to device.

### 6.37. Less GPRS Traffic

6.37.1. Tracker will change to less GPRS traffic mode after parking 5 minutes, GPRS disconnect, and connect again when alarm being triggered or vehicle starts driving.

6.37.2. Activate this function: Send "less gprs123456 on", tracker will reply "less gprs on ok".

6.37.3. Deactivate this function: Send "less gprs123456 off", tracker will reply "less gprs off ok".

Note: 123456 is the password of tracker, and replace it with the new if you have changed.

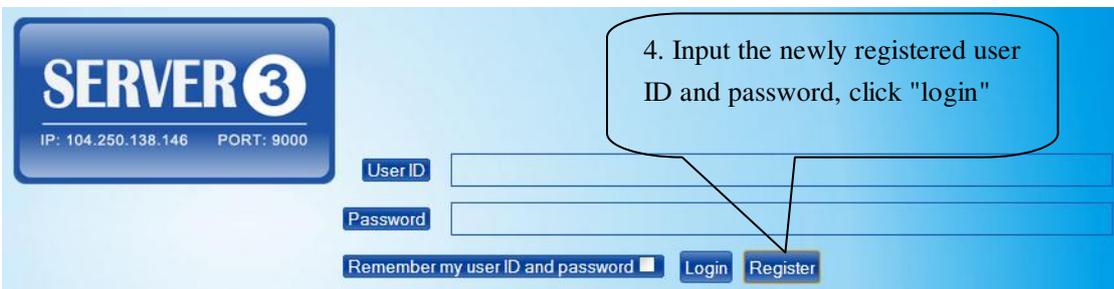
### 6.38. Web Platform and Mobile APP instructions

Users need to register an account on [www.gpstrackerxy.com](http://www.gpstrackerxy.com) before use web or APP platform, account name and password is the same on web/APP platform.

#### 6.38.1. Register an account



**6.38.2. Login**



**6.38.3. Add a terminal**

TrackerHome

Terminal List Terminal Control Route Repeat Manual Track Reports System Settings Notice Quit System

Terminal Management

- Group Management
- Account Management
- Change Password

5. add terminal

Name	Date & Time	Description	Speed	Altitude	Oil1	Oil2	°C	ACC	Door	LBS	Latitude	Longitude
Demo	2015-04-16 08:27:01	Position info	0km/h	0.0m	0.0%	0.0%	0	Off	Close	No	22.586680	113.907718
Demo	2015-04-16 08:26:56	Geo fence had been clear.	0km/h	0.0m	0.0%	0.0%	0	Off	Close	No	22.586225	113.90794
Demo	2015-04-16 08:20:56	Position info	0km/h	0.0m	0.0%	0.0%	0	Off	Close	No	22.586225	113.907945
Demo	2015-04-16 08:20:37	Position info	0km/h	0.0m	0.0%	0.0%	0	Off	Close	No	22.586225	113.907945

6. add terminal

Expiry Date From 1900-01-01 To 9998-12-31 IMEI NO. Keyword: Search Add Delete Quit

IMEI NO.	Name	Icon	Model	Group Name	Expiry Date
		Car	All Functions		

7. enter IMEI

8. Device name

9. choose location icon

10. Save

Terminal List Terminal Control

Terminal List

(Online:0 Offline:1)

demo

11. the newly registered device is offline in grey color

#### 6.38.4. Configure your tracker to web platform to track it online

Step 1: set APN, refer to [6.35.1](#)

Step 2: set GPRS user name and password, refer to [6.35.2](#)

Step 3: set IP and port, please use the corresponding IP and port of the server you choose, refer to [6.35.3](#)

Step 4: switch to GPRS mode, refer to [6.35.4](#)

Terminal List Terminal Control

Terminal List

(Online:1 Offline:0)

Demo

12. After receiving GPRS OK, wait about one minute, tracker will be online in green color, you can operate the tracker.

6.38.5. If the tracker is always offline (grey color), make sure the SIM card subscribe the GPRS service, and have

money to surf the Internet, you can use phone to test the SIM card can surf the Internet or not.

please check the APN, user name, password, IP, port settings are correct, refer to **6.31**.

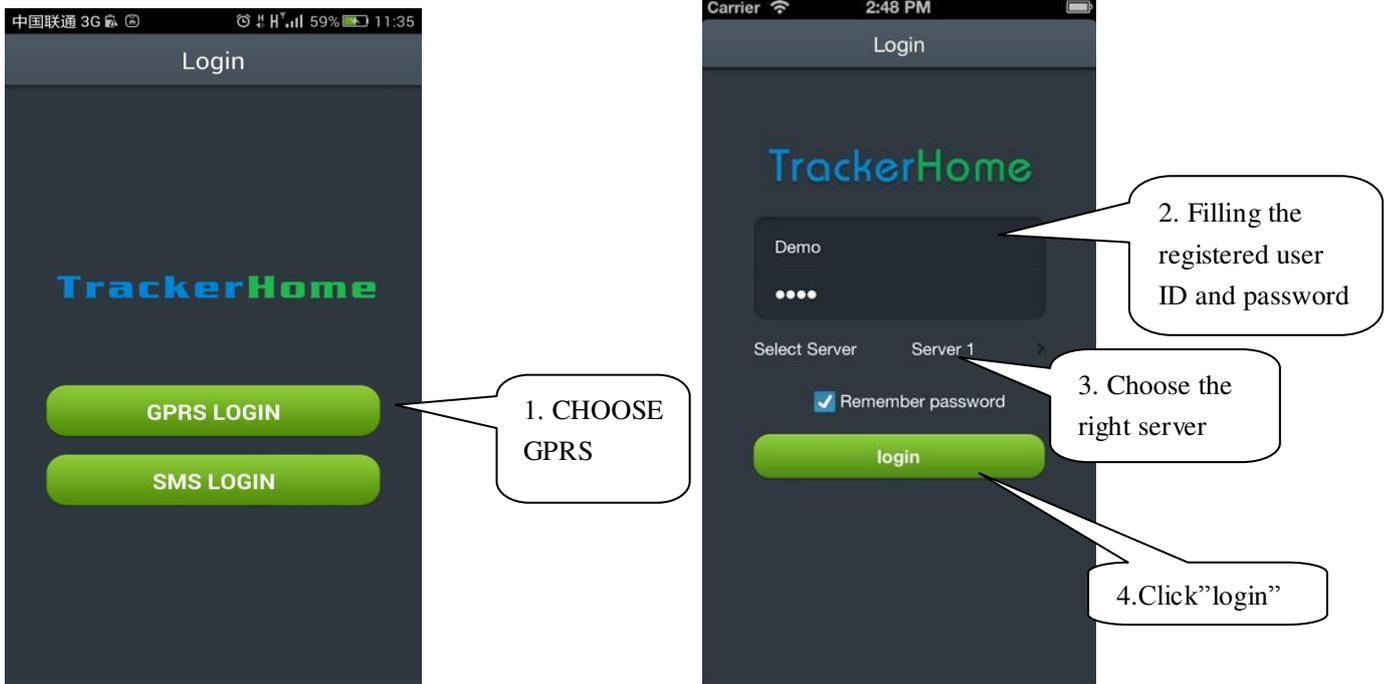
### 6.38.6. IOS & Android mobile APP

#### 6.38.6.1. Download and install the mobile APP software

According to your phone type, download and install mobile app below the home page on web tracking platform.



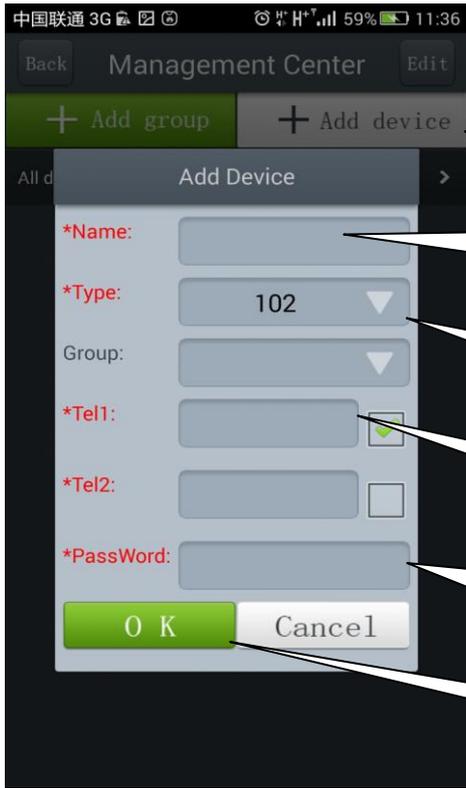
#### 6.38.6.2. login in and use the mobile APP under GPRS





### 6.38.6.3 login in and use the mobile APP under SMS





4. Choose "add device"

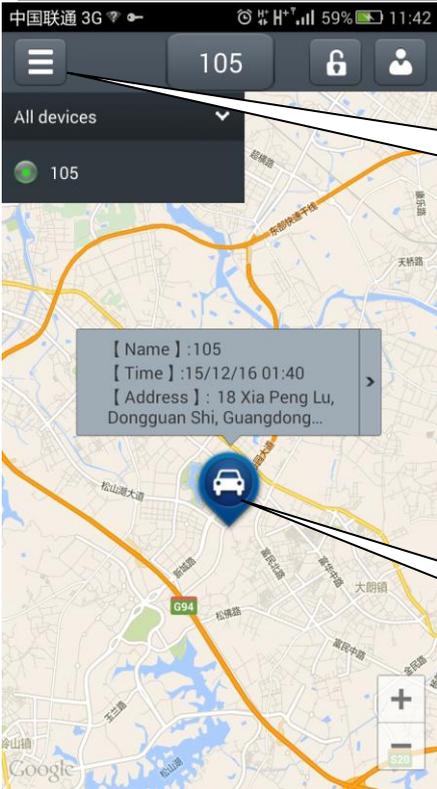
5. Filling the registered user ID

6. Choose the type

7. Filling the SIM PHONE

8. Filling the tracker's password

9. Click "ok"

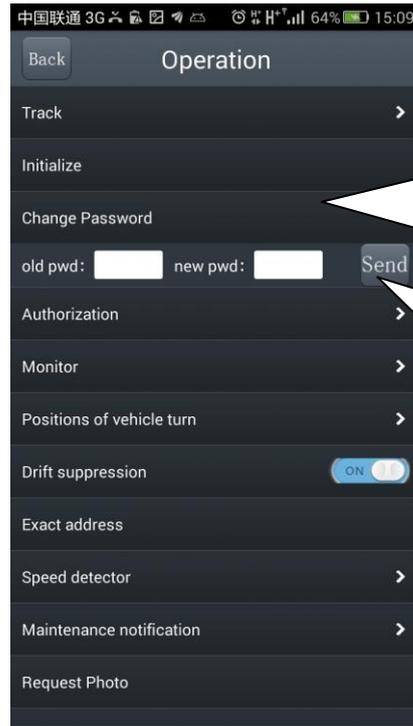


10. Click the icon, and display the list

11. Click "the online device" to operate the device



12. Click here



13. click buttons to send commands

14. Input manual commands, and then click "send"

Remarks: APP on Android phone can track the address and show alarm by SMS; IOS APP can only send commands due to the confine policy

## 7. 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. Don't disassemble or refit the unit.
6. Please read the user manual carefully before installation and operation, learn something more about the voltage range. Otherwise, it won't work properly or destroy the product.

## 8. Faults & the Solutions

Faults	Solution

Fail to turn it on	Please check if built-in battery is charged, and external power connected well.
No GSM signal	Please check if SIM card installed correctly. Please check if SIM card is GSM network. Please deactivate the PIN code No calls can be diverted Please check power voltage is normal.
No GPS	Recommend to use the OBD extension cord, or plug into the vehicle after fix to satellites.
No reply to SMS command	Password wrong or the SMS format is wrong
No reply to calling	Authorized / admin phone number is incorrect
No alarm message	Authorized / admin phone number has not setup