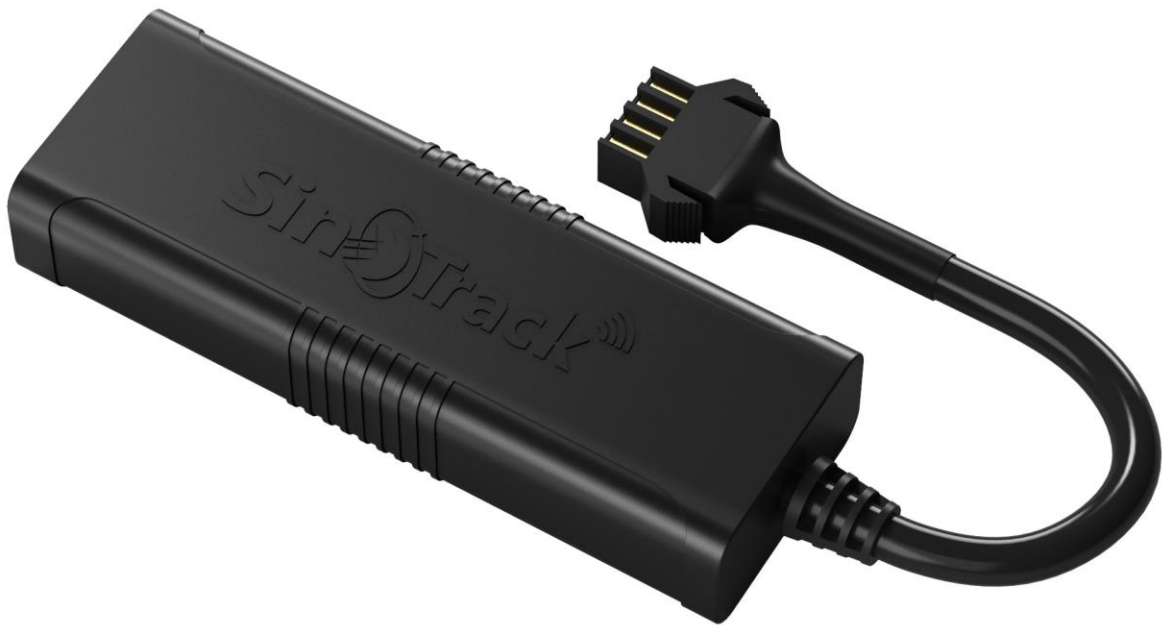# GPS Tracker ST-901M

User Manual

Quick Start

Thank you for purchasing our GPS tracker.
This Quick User shows how to operate the device smoothly and correctly.

WEBSITE Tracking (PC Version):

Platform: Pro.SinoTrack.com

User name: ID on the tracker

Password: 123456

APPLICATION Tracking (Mobile APP):

You can search **SinoTrack PRO** on APP Store (iOS) or Google Play (Android)
Or Download from the QR Code:

Server: Pro.SinoTrack
User Name: ID number on tracker
Password: 123456

If you have **more SinoTrack GPS trackers**, and want to manage them in one account, please contact us, we will create an account for you, so you can monitor **multiple devices** on the platform at the same time.

1. Choose GSM card, it should be Normal SIM card, without PIN code.

Normal SIM   Micro SIM   Nano SIM

2. Open the top cover of tracker by screw.

3. Proper insert GSM card, the tracker will start, connect external power supply.

4. Put device outside around 30s, LED lights will keep lighting on stands for device can work normally.

5. Dialing device number, it will hang up and reply tracking message with valid Lon and lat.

6. Please send SMS to tracker to set the APN: (the yellow place ⬛ is BLANK)
SMS: **8030000 APN**
(APN is Access Point Name of your SIM Card, please check with your SIM Card provider if you don't know it)
If the APN need User name and Password, please send the command:
SMS: **8030000 APN APNuser APNpassword**

7. Send SMS to set trackers to our server:
SMS: **8040000 45.112.204.246 8090**

8. If you set ok of all, you can track it online.
If the device is not online, please check device setting, send: **RCONF** to device,
It will reply the setting.
1. The APN is correct;
2. The IP and Port is correct;
3. The ID on platform is correct;
4. The device working model, (SMS model or GPRS model)

If you need login account or still have problems or any suggestions,
Please leave massage under your order,
Or send email to: sino@sinotrack.com
For order support, you'd better leave massage under your order,
It will be fast to solve your problem,
Thanks.

LED Status

1.1.   Blue LED--- GPS Status

Status	Meaning
Flashing	No GPS Signal or GPS starting
ON	GPS OK

1.2.   Orange LED---GSM Status

Status	Meaning
Flashing	No SIM card or GSM starting
ON	GSM OK

1.3.   Red LED---GSM Status

Status	Meaning
OFF	Tracker is off or sleep
Flashing	Tracker is Working

The default password is: 0000
The default mode is normal working (ACC Mode).
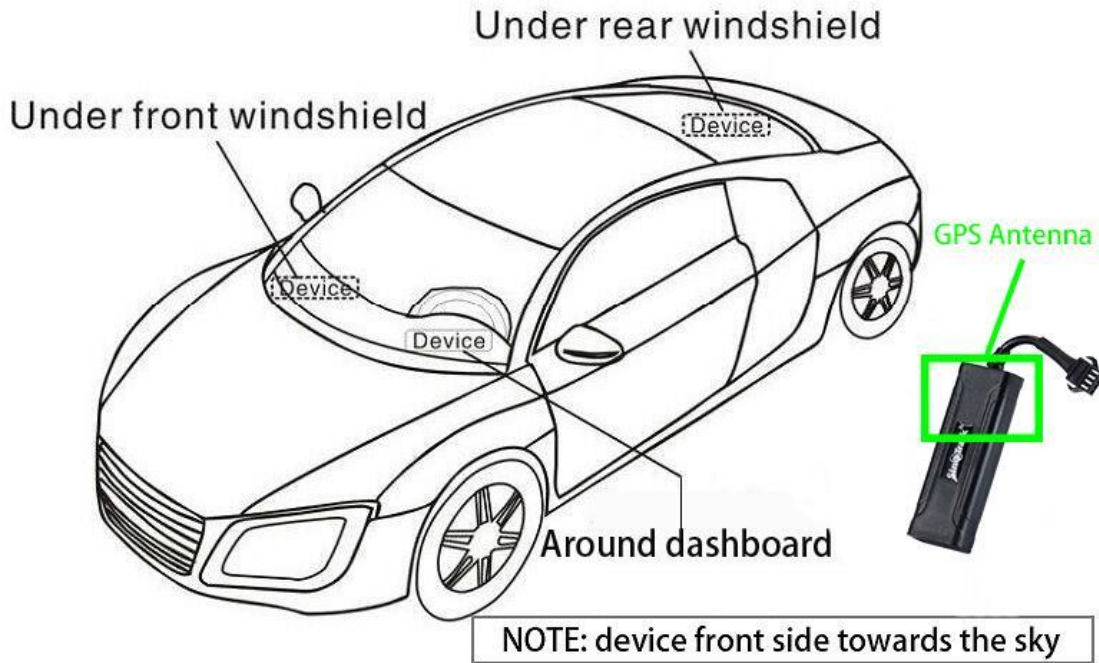GPS Status: A is got location; V is invalid location.
Alarm mode is on.
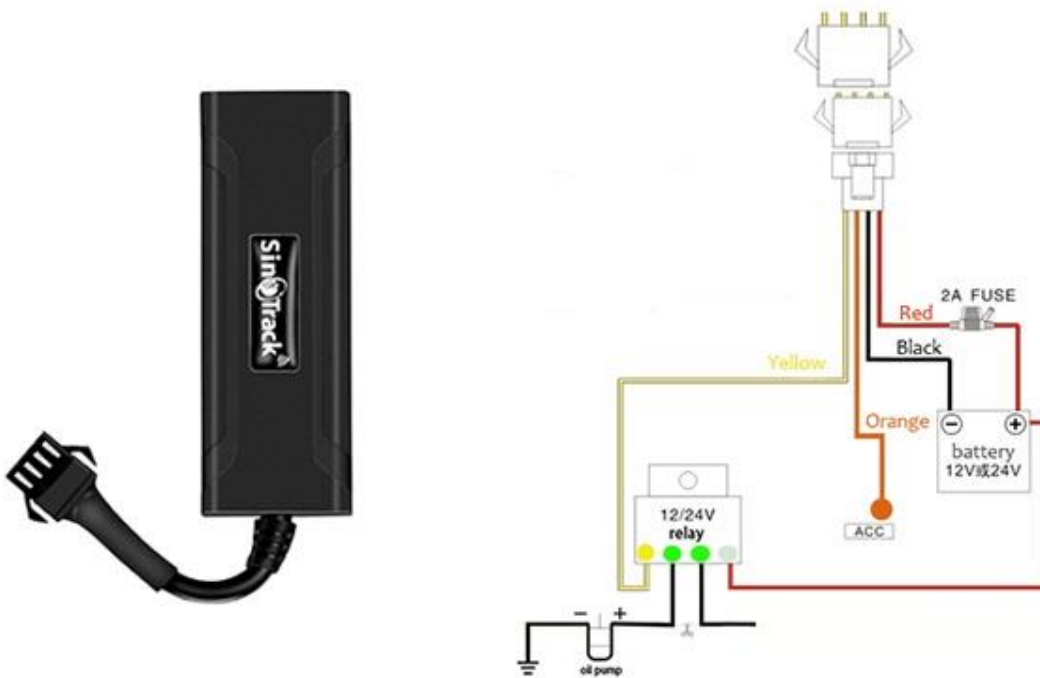Alarm will send to the 3-control number.
Battery 5 is 100%, 1 is 20%; the battery is from 1 to 5.

Installation:

**1. The GPS antenna side should towards to clear sky.
(Can't put under Metal, but Glass and Plastic is ok)**

2. Connect the wires:

Functions:

1. Set control number：

For example: you number is +86 13950443465

Sample: **139504434650000 1**

+86 is country code, 13950443465 is mobile number, 0000 is password, 1 is serial means the first number.

When the tracker replies "SET OK" means the setting is ok.

You can set the second and third control number also.

2. Working mode: ST-901M has both SMS and GPRS working mode.

1. If you want to control it by mobile and use SMS only, you can get Google location from you mobile, then you can choose SMS mode.

2. If you want to monitor the tracker online real time, and you want to install the tracker data for years, you should choose the GPRS mode.

You can send SMS to choose the mode.

SMS Mode:

Command: **700+Password**

Sample: **7000000**

Reply: SET OK

When ST-901M receives the command, it will change to SMS mode.

GPRS Mode: (Default)

Command: **710+Password**

Sample: **7100000**

Reply: SET OK

When ST-901M receives the command, it will change to GPRS mode.

3. Change Password

Command: **777+New Password+Old password**

Sample: **77712340000**

The 1234 is new password, and 0000 is old password.

When ST-901M received the command, it will reply SET OK

4. Get location with Google link

Command: **669+password**

Sample: **6690000**

When ST-901M receives command, will send back location with Google link.

You can open the link to check the tracker location on maps.

5. Get location by phone call.

You can use any mobile to call the SIM Card in tracker, it will reply the location with Google link; you can open the link to check the tracker location on maps.

When you call the tracker when it is in invalid location, it will reply the last valid location to you, after it get new location again, it will send the seconds SMS to you with new location.

6. Change Time Zone

Command: **896+password+E/W+HH**
Sample: **8960000E00 (default)**
E means East, W means west, 00 mean time zone.
Reply: SET OK
0 time zone is 8960000E00

7. Geo Fence (send alarm to the first number only)

Open Geo Fence: **211+password**
Sample: **2110000**
Reply: SET OK
Close Geo Fence: **210+password**
Sample: **2100000**
Reply: SET OK
Set the Geo Fence
Sample: **0050000 1000 (the Geo Fence is 1000 meters)**
Reply SET OK
We suggest the Geo Fence more than 1000 meters.

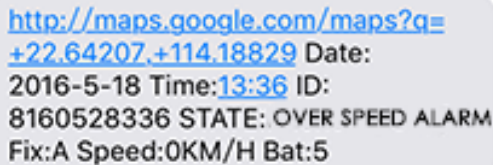## 8. Over speed Alarm (send Alarm to control numbers)

Command: **122+password＋Blank+XXX**

Sample: **1220000 120**

Reply: SET OK

The XXX is the speed, from 0 to 999, the unit is KM/H.

If the XXX is 0, it means close the over speed alarm.

http://maps.google.com/maps?q=
+22.64207,+114.18829 Date:
2016-5-18 Time:13:36 ID:
8160528336 STATE: OVER SPEED ALARM
Fix:A Speed:0KM/H Bat:5

9. Shock Alarm (send SMS alarm to the first number)

Open Shock Alarm: **181+password+T**
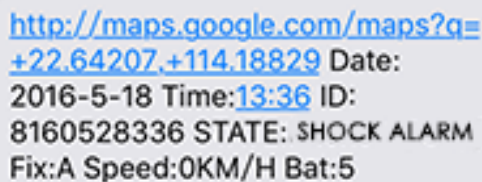
Sample: **1810000T10**

Reply: SET OK

The T meaning shocking time, the unit is second,

It from 0 to 120 senconds.

Close Shock Alarm: **180+password**
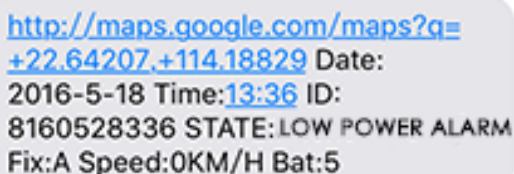
Sample: **1800000**

Reply: SET OK

http://maps.google.com/maps?q=
+22.64207,+114.18829 Date:
2016-5-18 Time:13:36 ID:
8160528336 STATE: SHOCK ALARM
Fix:A Speed:0KM/H Bat:5

10. Cut power alarm (send SMS to first number)

When the battery is disconnected, the tracker will send the 11. Cut power alarm to server and SMS to the first number

http://maps.google.com/maps?q=
+22.64207,+114.18829 Date:
2016-5-18 Time:13:36 ID:
8160528336 STATE: LOW POWER ALARM
Fix:A Speed:0KM/H Bat:5

11. ACC on Alarm

Open the ACC on alarm by SMS

Command: **886+password**

Sample: **8860000**

Reply: SET OK

Close the ACC on alarm by SMS

Command: **887+password**

Sample: **8870000**
Reply: SET OK

Open the ACC on alarm to phone call
Command: **888+password**
Sample: **8880000**
Reply: SET OK
Close the ACC on alarm to phone call
Command: **889+password**
Sample: **8890000**
Reply: SET OK

12. Call mode
Call mode on:
Command: **150+password**
Sample: **1500000**
Reply: SET OK

Call mode off
Command: **151+password**
Sample: **1510000**
Reply: SET OK
When the call mode on, the alarms will call and send SMS to control number,
When the call mode off, only send SMS.

13. Cut Engine remotely (ST-901M only)
Cut Engine command: 940+password
Sample: 9400000
After tracker receive the command, it will cut engine and send back SMS "SET OK"
Recover Engine command: 941+password
After tracker receive the command, it will recover engine and send back SMS "SET OK"

14. Set APN
Command 1: **803+password+Blank+APN**
Sample: **8030000 CMNET**
Reply: SET OK

If your APN need user and pass:

Command 2: **803+pass+Blank+APN+Blank+APNuser+Blank+APN pass**
Sample: **8030000 CMNET CMNET CMNET**
Reply: SET OK

15. Set the IP and Port
Command: **804+password+Blank+IP+Blank+Port**
Sample: **8040000 45.112.204.246 8090**
Reply: SET OK

16. Set the time interval
ACC on time interval (**default is 20 seconds**)
Command: **805+password+Blank+T**
Sample: **8050000 20**
Reply: SET OK
T means the time interval, the unit is second,
It from 10 to 18000 seconds,
When T=0 means close GPRS.

ACC off time interval (**default is 180 seconds**)
Command: **809+password+Blank+T**
Sample: **8090000 180**
Reply: SET OK
T means the time interval, the unit is second, It from 10 to 18000 seconds,
When T=0 means close GPRS.
The minimum time interval is 10 seconds.

17. Sleep Mode
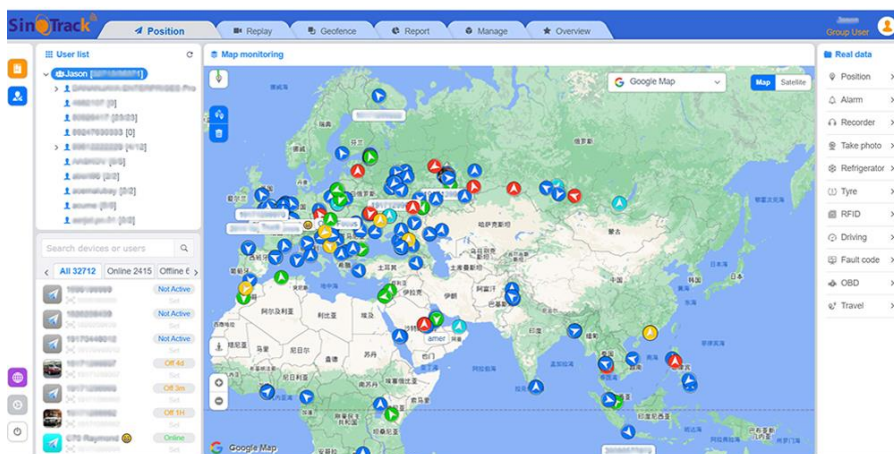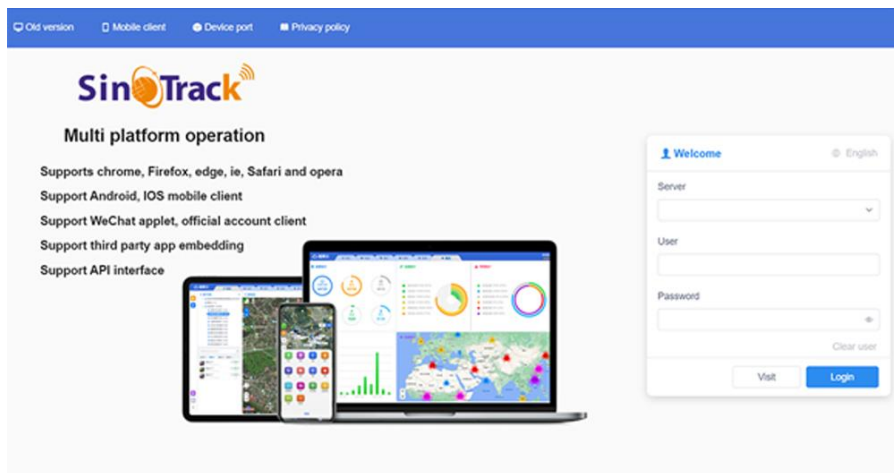Command: **SLEEP+password+Blank+T**
Sample: **SLEEP0000 5**
Reply: SET OK
The tracker will sleep when the vehicle stopped for 5 minutes.
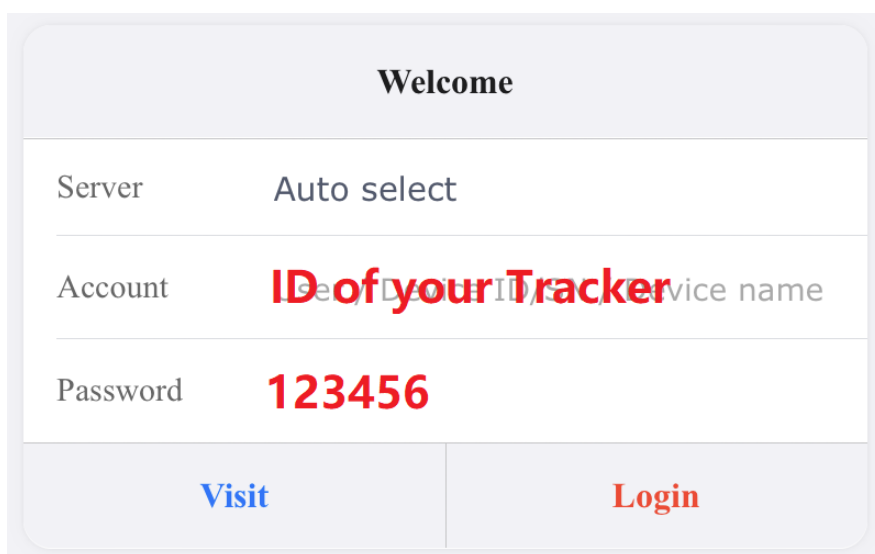

SLEEP0000 0
To close the sleep mode, the tracker will work all the time.

Online Track:

Please login from www.SinoTrack.com or http://45.112.204.246

You can also download our APPS on website to track on your mobile:

Other Functions:

1. RESTART
The tracker will restart.

2. RCONF
Read the configure of tracker

Tracker will reply:
ST-901,ID: 8160528336,UP:0000,U1:,U2:,U3:,MODE:GPRS
DAILY:OFF,GEO FENCE: OFF,OVER SPEED:OFF
VOICE:ON,SHAKE
ALARM:OFF,SLEEP:OFF,APN:CMNET,,,IP:45.112.204.246:8090,
GPRSUPLOAD TIME:20
TIME ZONE:E00

ST-901：software version

ID：8160528336 (Tracker ID)

UP：0000 (password, default is 0000)

U1：the first control number,

U2：the second control number,

U3：the third control number.

MODE:GPRS (working mode, default is GPRS)

DAILY:OFF (Daily time to report, default off)

GEO FENCE: OFF (Geo Fence, default off)

OVER SPEED:OFF (over speed, default off)

VOICE:ON (Call mode, default on)

SHAKE ALARM:OFF (Shock Alarm, default off)

SLEEP MODE : OFF (sleep mode, default off)

APN:CMNET,,, (APN, default is CMNET)

IP:45.112.201.246:8090 (The IP and Port)

GPRS UPLOAD TIME:20 (time interval)

TIME ZONE:E00 (Time zone, default is +0)