GPS Tracker ST-901A

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 Micro SIM card, without PIN code.

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)

LED Status

1.1. Yellow LED---GPS Status

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

1.2. Red LED---GSM Status

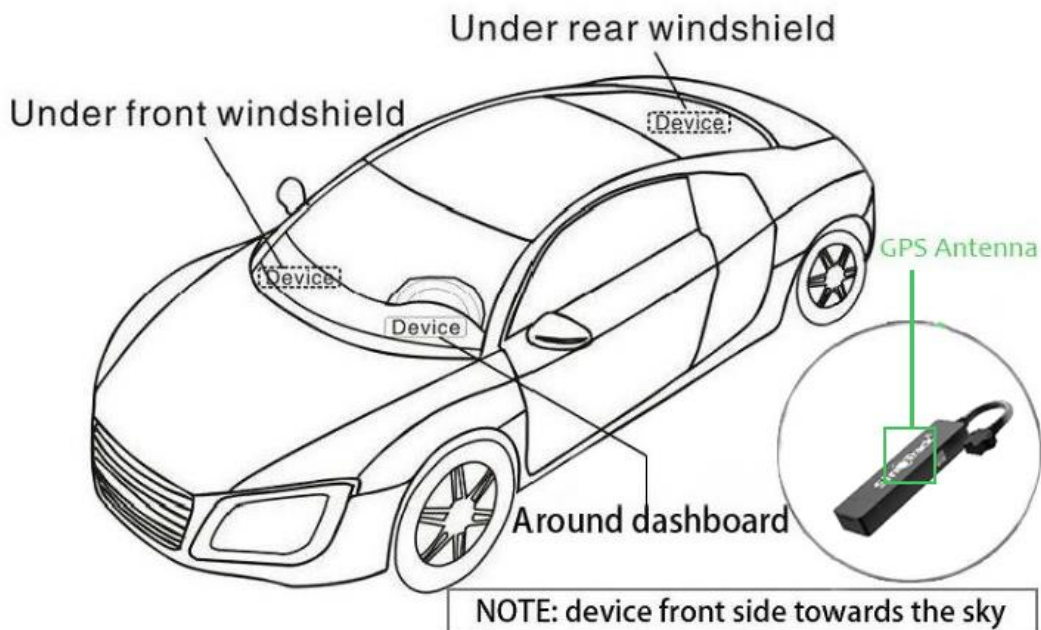| Status	Meaning
Flashing	No SIM card or GSM starting
ON	GSM OK

Installation:

1. Open the tracker and put SIM Card in

2. The GPS antenna side should towards to clear sky.

(Can't put under Metal, but Glass and Plastic is ok)

Under rear windshield

Under front windshield

Device

Device

Device

GPS Antenna

Around dashboard

NOTE: device front side towards the sky

3. Connect the wires:

2A FUSE

Red

Black

Yellow

Orange

battery
12V或24V

12/24V
relay

ACC

oil pump
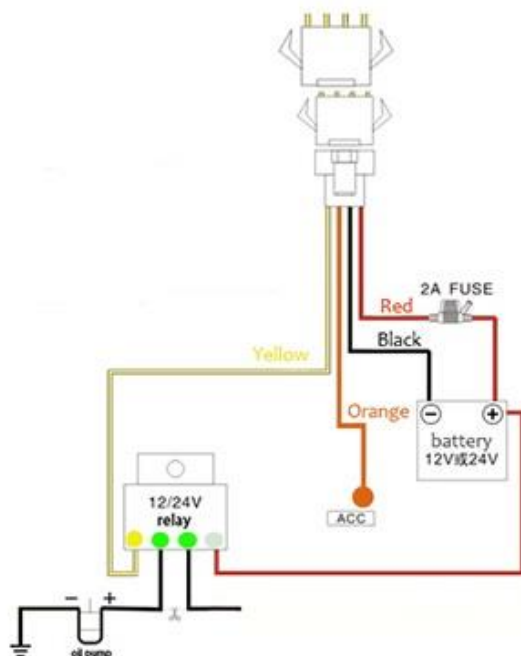
Functions:

1. Set control number：
Command: **Number+pass+blank+serial**
For example: you number is +86 13950443465
Sample: **13950443465 0000 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-901A 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-901A receives the command, it will change to SMS mode.
GPRS Mode: (Default)
Command: **710+Password**
Sample: **7100000**
Reply: SET OK
When ST-901A 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-901A received the command, it will reply SET OK

4. Get location with Google link
Command: **669+password**
Sample: **6690000**
When ST-901A receives the command, will send back Google link.
You can open the link to check the tracker location on maps.

6690000

http://maps.google.com/maps?q=
+22.64208,+114.18828 Date:
2016-5-18 Time:13:40 ID:
8160528336 Fix:A Speed:0KM/H Bat:
5

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.

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

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. Send location in defined time every day.

It will send to the first control number.
Command: **665+password+HHMM**
HH mean hour, it from 00 to 23,
MM means minutes, it from 00 to 59.
Sample: **66500001219**
Reply: SET OK
Close the function command: **665+password+OFF (default)**
Sample: **6650000OFF**
Reply: SET OK

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

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

Open Geo Fence: **211+password**

Sample: **2110000**

Reply: SET OK

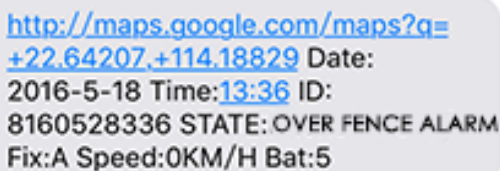Close Geo Fence: **210+password**

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.

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

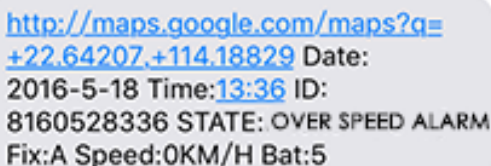## 9. Over speed Alarm (send Alarm to control numbers)

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

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

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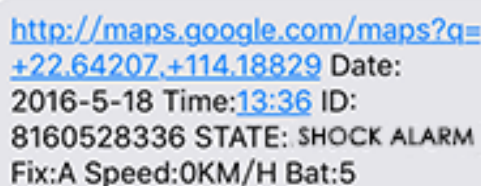
Sample: **1810000T10**

Reply: SET OK

The T meaning shocking time, the unit is second,

It from 0 to 120 senconds.

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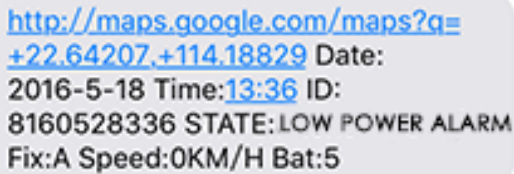
Sample: **1800000**

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

11. 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

12. 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

13. 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.

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**
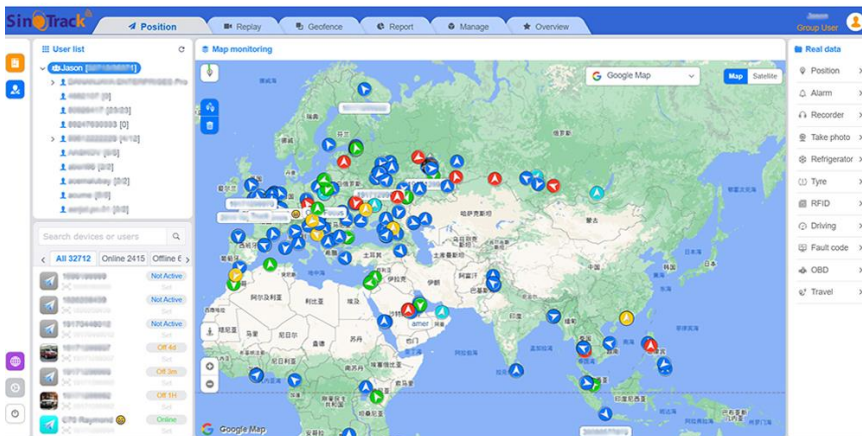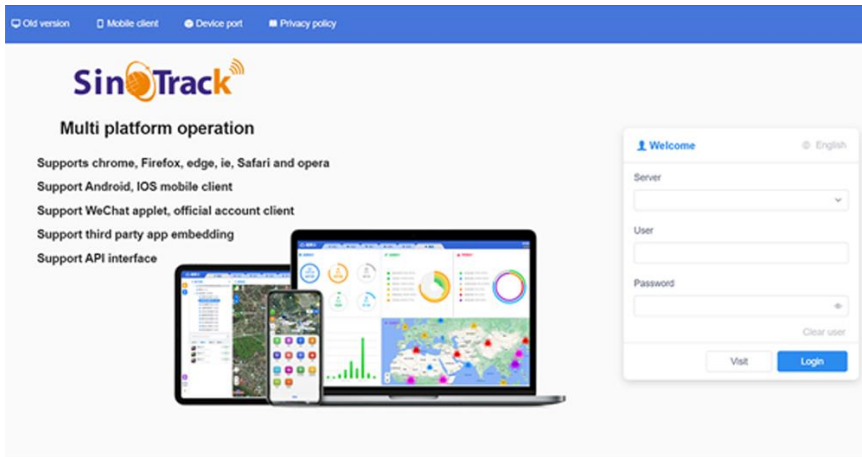Sample**: 8090000 180**
Reply: SET OK
T means the time interval, the unit is second, It from 10 to 18000 seconds,
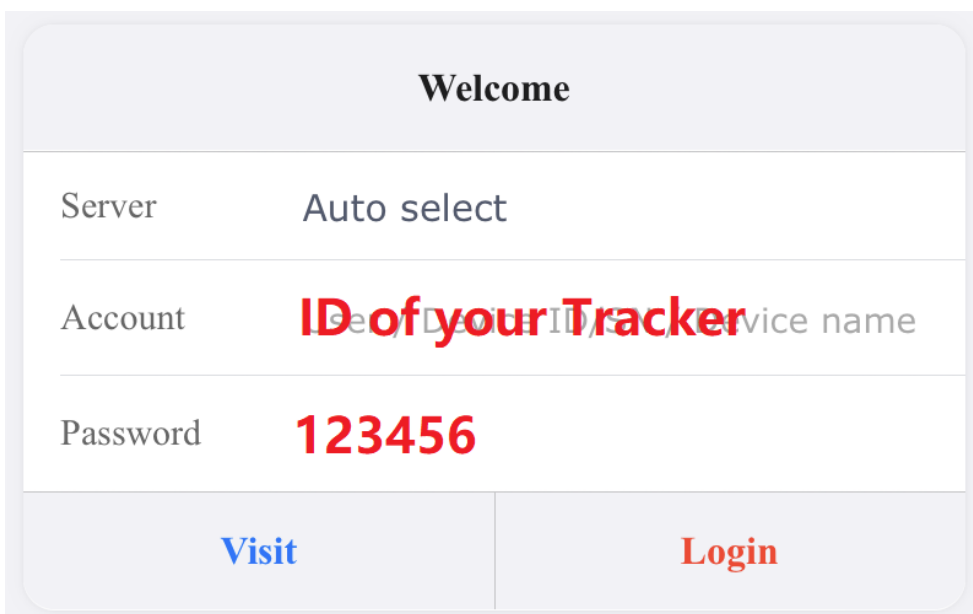When T=0 means close GPRS.
The minimum time interval is 10 seconds.

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-901A,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-901A： 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)