

SinoTrack GPS TRACKER ST-904/ST-904L 4G User Manual



PREFACE

Thank you for purchasing SinoTrack 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.	58*39*20mm
Weight	52g
Network	GSM/GPRS/LTE
Band	GSM 850/900/1800/1900Mhz/ LTE-FDD B1/B2/B3/B4/B5/B7/B8/B28/B66
GPS sensitivity	-159dBm
GPS accuracy	5m
Battery	3.7V 1200mAh battery
Stand by	7-15 days
Storage Temp.	-40°C to +85°C

Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing
Car charger	12-24V input ; 5V-1A output
Wall charger	110-220V input ; 5V-1A output

2. Hardware Description

INDICATOR LIGHT STATUS	MEANING
Yellow light –On	GPRS connection
Yellow light –Flash	No GPRS signal
Blue light –On	GPS connection
Blue light –Flash	No GPS signal
Red light –On	Tracker is Charging
Red light –Off	Tracker is not Charging

Note: SIM CARD INSTALLATION GUIDE:

2G Version Only GSM SIM card works in this model.

If you use 3G or 4G card, please confirm it should have GSM function.
Please confirm the SIM Card without PIN Code.



3.HOW TO QUICKLY SETTING UP THE TRACKER

STEP 1. – Activate Sim

Install the new sim card with 2G/4G network function into your mobile phone and activate the sim card. Make sure it can make a call, send a text and has an internet connection. Once this is confirmed, insert SIM to your tracker.

STEP 2. – Turn on the tracker

Charge it about 1 hour first.

The yellow and blue indicator lights will start flashing while it searches for a network and GPS.

Please wait 5 minutes in a good reception area (by a window or outside) for both lights to come on constantly. It will continue to flash yellow if it can not find a network. Move it to another location.

Please note, when the device has a GPS signal it will get a GPS location. If not it will get its location using LBS/WIFI.

STEP 3. - Setting APN for the tracker

(1) You need to know your tracker's SIM card's APN (Every sim card carrier has own APN content, we have three methods to find out apn content: check sim card carrier on internet or put sim card into cell phone to find out APN or you can ask your SIM card's provider);

(2) Please note the following operations need From another phone number send text messages command to the tracker's sim card's phone number to set tracker's APN.

For example:

APN is: everywhere

APN username is: eesecure

APN password is: secure

(1) If your SIM card's APN without username and password, then send command(8030000+space+APN) to the tracker, it will reply "SET OK".

Text command is: 8030000 everywhere

(2) If your APN with username and password:

Then send text Command (8030000+Space+APN+space+APN user+Space+ APN pass)

to the tracker : 8030000 everywhere eesecure secure

Please note: Different SIM card has difference APN. Please apply the above formula according to your actual APN to set up your machine.

STEP 4. - Setting GPRS mode

Send text command to the device to set GPRS mode:7100000

Then wait about 30sec, both blue and orange light should stay ON which mean you can now login to sinotrackpro web or app to check if tracker active. (Username is your tracker's ID number that write on the product, password: 123456)

If you set ok of all, you can track it online. If it online but show China location, then take it to the outside which signal good place to get GPRS signal, when it gets signal, will update your location.

4. START ONLINE TRACKING

4.1 WEBSITE TRACKING

WEBSITE Tracking (PC Version):

Server: Auto select

User: ID of your Tracker

Password: 123456

Clear account

Buttons: Visit, Login

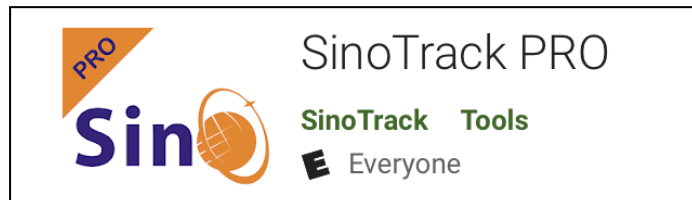
Platform:
VIP.SinoTrack.com

User name:
ID on the tracker

Password: 123456

4.2 APPLICATIONS FOR ANDROID/IOS

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



Server: VIP.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.

Welcome	
Server	Auto select
Account	ID of your Tracker <small>(Use Device ID / Service name)</small>
Password	123456
Visit	Login

5. More function setting steps are as follows

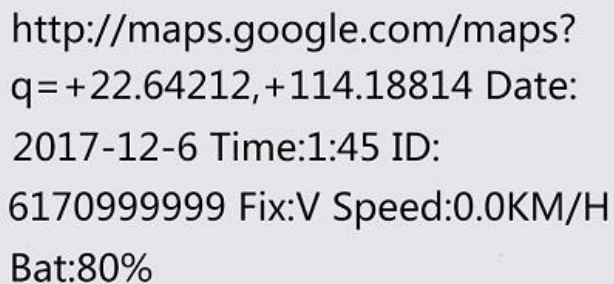
5.1 SMS TRACKING

Note: The yellow space is a blank in SMS command.

Call the SIM card phone number in tracker, you will receive a Google Maps link of position, or sending message "6690000" to SIM card phone number in tracker . E.g:



6690000



http://maps.google.com/maps?
q=+22.64212,+114.18814 Date:
2017-12-6 Time:1:45 ID:
6170999999 Fix:V Speed:0.0KM/H
Bat:80%

5.2. Admin number setting (After admin number setting, all SMS operations to the device are under this number only.)

Command: **phone number+password**1 (This phone number is your own mobile phone number , not the SIM card number in tracker .)
Reply: SET OK!

E.g: **132657901800000 1**

13265790180 is your mobile number, 0000 is password, 1 is serial means the first number.

Voice Monitor:

Send command **66** to the GPS Tracker from control number,
The tracker will call back to this control number.

(Attention: You need to set control number for the tracker, so that you can use this function. And must use control number to send 66, otherwise you can't get call back)

Or you can use admin number call the tracker to monitor.

When the unit is in over-speed alarm, shake sensor alarm, or low battery alarm, it will send alert to the admin number. (13265790180)

Admin number Canceling:
Command: D101#
Reply: SET OK!

5.3. Over-speed Alarm setting

Over-speed Alarm setting:
Command: 1220000|070 (Suppose speed is 70km/h)
Reply: SET OK!
E.g:



When the unit speed is over 70km/h, it will send message “speed alarm!” to the admin number every 5 minutes.

Over-speed Alarm canceling:
Command: 1220000|0
Reply: SET OK!

5.4. Shake Alarm setting

Command: 1810000T10
Message Reply: SET OK!
E.g:



Note: Pls keep the tracker being stationary for 5 minutes, this function will work. The tracker will send SMS “Shock alarm!” to the admin number when the unit get shocked.

Shake alarm Canceling:
Command: 1800000
Reply: SET OK!

5.5. Device working mode setting: (Battery use time depends on which working mode you set)

1. **WORK**-Keep working mode:
(**ST-904/ST-904L works 18 to 24 hours**)

Command: **WORK0000**

Reply: SET OK!

(The tracker will keep working and send data by time interval)

2. **MOVE**-Work when the tracker is moving:

(**ST-904/ST-904L works 3 to 10 days**)

Command: **MOVE0000**

Reply: SET OK!

(Factory setting is “MOVE” mode)

(Tracker only works when it is moving, when it is stopped, it will sleep, GPS shut off, GSM works in low consumption mode. Vibration, SMS command, calling tracker can wake up the tracker to work 5 minutes.)

Attention Please: If you set for MOVE-Work mode and your car running all day at the same time, then tracker can't save battery, at this time move mode same as keep working mode. Only can use 18-24 hours.

3. **STANDBY**-SMS or Call to tracker, it will work 5 minutes.

(**ST-904/ST-904L can standby 15 days**)

Command: **STANDBY0000**

Reply: SET OK!

(Standby mode, GPS shut off, GSM works in low consumption. SMS, calling can wake up the tracker to work 5 minutes.)

PS:

The ST-904/ST-904L is mini tracker with **1,200mAh** battery.

If you need long time standby,

You can choose:

ST-905/ST-905L **5,000mAh,**

ST-915/ST-915L **10,000mAh,**

ST-925 **20,800mAh,**

The big battery with big size also.

5.6 Terminal (local) Time Setting (factory setting GMT 0)

Command: 8960000E00

Reply: SET OK!

8960000E00

SET OK

E.g:

8960000E01

8960000W01

5.7 Reset Hardware

Command: RESET

Reply: SET OK!

5.8 Read the Configuration data

Command: RCONF

Reply: the ID, work mode, IP and Port, APN of tracker.

6. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE

RCONF

ST904(M),ID:7026015803,UP:0000,U1
:,U2:,U3:,MODE:GPRS-
MOVE,GEO FENCE:OFF,OVER
SPEED:ON,VOICE:OFF,SHAKE
ALARM:ON,SLEEP
MODE:ON,APN:interne

t,,,IP:45.112.204.242:8090,GPRS
UPLOAD TIME:30TIME ZONE:+8.0

It's the setting of tracker

- ◆ **ST-904/ST-904L:** the model of tracker.
- ◆ **ID:7028313929** the ID of GPS Tracker
- ◆ **UP:0000** the password of SMS
- ◆ **U1:,U2:,U3:** The control number
- ◆ **MODE: GPRS-MOVE:** GPS work mode.
- ◆ **DAILY:OFF,GEO FENCE:OFF,OVER SPEED:OFF, VOICE:ON, SHAKE ALARM:OFF,SLEEP:ON** status of tracker
- ◆ **APN: internet** APN of the SIM Card
- ◆ **IP:45.112.204.242:8090** the IP and Port of tracker
- ◆ **GPRS UPLOAD TIME:30** is the GPS time interval
- ◆ **TIME ZONE:E3.0** time zone of tracker

7. Notices:

- 1.GPS tracking can be worked outdoor.
- 2.Please make sure SIM card supports making calls, sending messages, GPRS network.
- 3.Please make sure SIM card is with sufficient balance.
- 4.Please make sure the SIM card has Turn off call divert
- 5.Please insert the SIM card correctly.
- 6.Do not assembly and disassembly device at will.

Contact us:

Amazon:

support@sinotrack.com

AliExpress:

sino@sinotrack.com

8. FAQ and processing methods.

FAQ	Instructions/Solutions
Fail to turn it on	Please check if battery is charged.
No GSM signal	<ul style="list-style-type: none"> ● Please check if SIM card installed correctly. ● Please check if SIM card has GSM network. ● Don't use the SIM card with PIN code. ● no calls can be diverted. ● Please check if voltage of the power is normal.
No GPS	A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.
No reply to SMS	Password wrong or the format is wrong.
No reply to calling & No alarm message	Authorized / admin phone number is incorrect or has not setup
SMS position OK, cannot use the APP and web platform	Please check if APN is correctly set. And please find out the correct APN content of the SIM card. (Please refer to 6 setting.)
Platform position is difference from the actual position.	No upload position time or GPS signal: call the device phone number and receive the position message. If it no GPS signal. The position is the last GPS positioning location; If it has GPS signal, it means the device doesn't reach the uploading time.