

PERSONAL GPS TRACKING SOLUTION



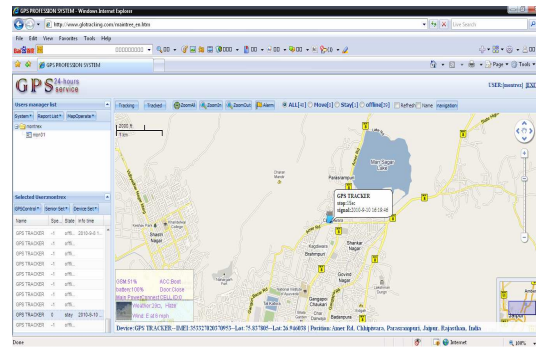
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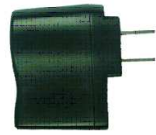
1. Introduction

Working Based on existing GSM /GPRS network and GPS satellites, this tracker is a small and powerful tracking device that is developed for personal, vehicle and pet etc. It can transmit the longitude and latitude coordinate to your cell phone by SMS, as well as to the designated server by GPRS and then displaying the location by tracking software.



Parts: USB Charger, User manual, USB cable,

Lanyard, Tracker



Charger



User manual



Tracker

USB Cable



Lanyard

2. Hardware Description



3. What's new?

Mini size: As small as a car remote controller can be linked to the key chain.

Excellent design: Especially design for personal using.

Phone call function: It can make a phone call by pressing the button.

Get position by 3 ways: Search the coordinate in Google map, click the URL and see the position in cell phone directly and view the position and history in tracking software.

4. Main Features

- ◆ Locating and tracking via SMS or GPRS
- ◆ Support voice call
- ◆ Listen in function
- ◆ SOS alert
- ◆ Geo-fence alarm
- ◆ Speeding alert
- ◆ Low battery alert

5. Applications

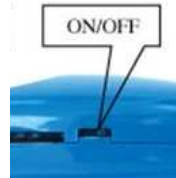
- ◆ Protect the child/elderly/disabled/pet etc.
- ◆ Personnel management
- ◆ Track the vehicle/ equipment etc.
- ◆ Provide peace-of-mind for businessmen

6. Specification

Content	Specs.
Dimension	71mm x 43mm x 20mm
Weight	40g
Network	GSM/GPRS
Band	900/1800Mhz 900/1800/1900Mhz

	850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5-20m
Cold start	42 sec.
Warm starts	38 sec.
Hot start	1 sec.
Battery	Chargeable 3.7V 870mAh battery
Operation temperature	-20°C to +55°C
Humidity	5%--95% non-condensing

7. Start up



Insert the SIM card into the tracker and switch on



TRACKER: Do charge the battery for 8 -12 hours after first use. Then, the battery can be charged fully in 4-5 hours. In order to protect the device, please use the battery and charger which come with the tracker.

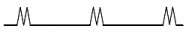


SIM CARD: Please be sure that there is call display but no call transfer, and PIN code is off.

Switch on: Please take the unit outdoors or near the window. Press the power button till three lights blinking together.

Switch off: Please press the power button till three lights blinking together. It will take around five seconds.

10 to 30 seconds after switching on, the unit will begin working and each LED will blink as the following:

Three LED	Bright at the same time	The device is starting
Orange LED(GSM)	Blink like 	Work in GSM mode
Orange LED(GSM)	Blink like 	Connecting GPRS

Orange LED(GSM)	Blink like 	Had connected to GPRS
Red LED (power)	Blink like 	Power on
Blue LED (GPS)	Blink like 	Had got GPS signal

8. Set the authorized number

Send SMS“**123456A1,phone number**” to set the first SOS number. At least, you have to set 1 authorized number
A1/2/3 is SOS number
A4 is Call 1 number and A5 is Call 2 number

17:46 ✓

123456A1,+8612345678901

Command SMS

Note:
'A' must be capital

Password →

A1/2/3/4/5 →

Authorized number →

17:46
1TEL OK!+8612345678901;DATE:
11/06/21,TIME:09/41/17,LAT:
22.7649200N,LOT:114.3980750E,Speed:
000.0,66-27,000

Reply SMS

Note: All the letters in any commands must be English in capital and make sure there is no space in the command. Phone number must include the country code. For example: +86 is the country code of China. Please do not use 00 instead of +, 123456 is the default password of the tracker.

9. Delete authorized number

10:06 ✓
123456A1,D

Command SMS

123456A1 (2/3/4/5), D
'A, D' must be capital

10:06
1TEL OK!+8612345678901;DATE:
11/12/05,TIME:01/58/20,LAT:
22.7639750N,LOT:114.3976750E,Speed:
000.0,88-28,000,46000-2634-FF99

Reply SMS

E.g. send "123456A1,D" to delete the A1(SOS) number.

10. Get instant position via THREE ways

10.1 Get instant position by calling the tracker

You can use the authorized numbers to call the tracker SIM number for at least 2 seconds, and then hang up the call before the tracker hangs up or receives it. The tracker will reply a Google position URL SMS. You can click on this URL to see the position. The tracker will not reply the SMS if you did not hang up the call before the tracker hangs up or receives it.

Note: The tracker will reply to any incoming call number if you have not set the authorized numbers yet. Once you have set the authorized number, the tracker will reply SMS to the authorized numbers only.

10.2 Get instant position by pressing ON/OFF button

You can get a Google position URL SMS by pressing the power button (around one second) till the **Blue LED** blinking fast.

Note: This link SMS will just be sent to the A1, A2 and A3 authorized numbers.

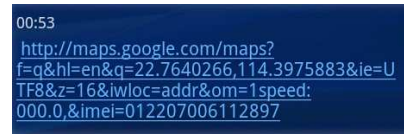
10.3 Get instant position by sending SMS command

Send "123456F" to the unit. It will reply its position.



Command SMS
Note: F must be capital

↓
Password
↓
Command



Reply SMS

11. Auto-track function

Send SMS "123456M0/M1, xxS/M/H" to the unit, the tracker will reply the location URL messages to A5 according to the time interval. If the device has been connected to the server, the reply data will be sent to the server only, which means the server has the priority.



Command SMS
Note: M must be capital.
M1 means turn on
M0 means turn off

01:47
AUTO TRACK OK,DATE:11/06/24,TIME:
17/46/46,LAT:22.7613783N,LOT:
114.3969616E,Speed:000.0,67-16,000

Reply SMS

01:54
AUTO-DATE: 11/06/24,TIME:17/53/18,LAT:
22.7611383N,LOT:114.3967816E,Speed:
000.0,67-16,000

Reply SMS

Tracking
data

01:57
AUTO-DATE: 11/06/24,TIME:17/56/25,LAT:
22.7615833N,LOT:114.3968800E,Speed:
000.0,67-16,000

xxx is interval time and must be three digits,030S means 30S.

S—second, M—minute, H—hour

H should be ≤90, S,M should be <255

E.g. send“123456M1,030S” to the tracker means every 30 seconds send back a position coordinate to the A5 number.

Send“123456M0,030S” to the tracker means stop the continuous tracking.

12. Dial preset number A4 or A5 via Call1 or Call2

Press CALL1 button for 3 seconds till **Blue LED** blinking fast, the tracker will dial the A4 number. Press CALL2 button for 3 seconds till **Yellow LED** blinking fast, the tracker will dial the A5 number.

Note: By pressing the SOS button once to end the call.

13. SOS function



16:03
HELP ME !Before!DATE:11/12/07,TIME:
07/50/01,Speed:000.0,64-21, [http://
www.glotracking.com/sms/?
22.7644366/114.3977016](http://www.glotracking.com/sms/?22.7644366/114.3977016) **Reply**

Tracker will send above SMS to SOS number (A1, A2, A3) after the user presses SOS button till the **RED LED** blinking fast. A few seconds later, it will dial the 3 numbers one by one (A1→A2→A3→A1.....) for 10 times till getting through. So, sms first then calling follow.

The first preset number will take priority over the second one and the third one. If the tracker fails to connect to the first number, it will switch to the second one, In case the second number fails to be connected neither, the system will

connect to the third number, This will go on and on until one of the 3 telephones picks up, then two-way communication starts.

14. Alerts

14.1 Speeding alert

Send SMS "**123456J0/J1,speed**" to set the Speeding alert function.



Command SMS

J0 means turn off the function
J1 means turn on the function



Reply SMS

When the speed exceeds 80 km/h, the unit will send SMS as "Over speed! +GPS info" to the A1, A2, A3 number.

Note: J must be capital, speed should be <250 and must be 3 digits, e.g. 080= 80 km/h.

E.g. Send "**123456J0,080**" to turn off this function.

14.2 Low-battery alert

Send SMS “**123456N0/N1,battery**” to set the Low-battery alert function.

00:57
123456N1,25 ✓

Command SMS

J0 means turn off the function
J1 means turn on the function

00:57
OPEN LOW BAT OK!Before!DATE:
09/01/01,TIME:00/00/01,LAT:
22.7640266N,LOT:114.3975883E,Speed:
000.0,18-16,000,46000-2634-FF98

Reply SMS

04:33
BAT:Low!23!Before!DATE:11/06/24,TIME:
00/30/38,LAT:22.7614083N,LOT:
114.3966300E,Speed:
000.0,23-17,000,46000-2634-FF7B

Reply SMS

Low battery
Now is 23%

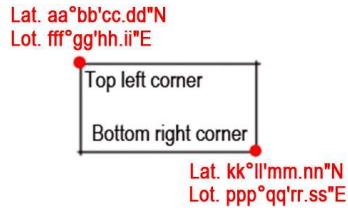
When the battery level bellows 30%, the unit will send SMS as “Low power! +GPS IM” to the A1, A2, A3 number.

Note: N must be capital, battery is the Low-battery percentage, It should be <45 and 2 digits, e.g. 30= 30%.

E.g. Send “**123456N0,30**” to turn off this function.

14.3 GEO-FENCE alert

“123456xyz,aabbccddeffggghhijklmmnneppp qqrssj”
send above message to set up the geo-fence for the device to restrict its movement area. The device will send the message to the A1, A2, A3 numbers as “Stockade +geo info” if the tracker enters/exits the preset zone. 5 groups GEO-FENCE areas can be set for the tracker.



Note: l must be capital.

x=NO. of the GENFENCE(1-5)

y=1 means ON, y=0 means OFF

z=0 means go into, z=1 means go out

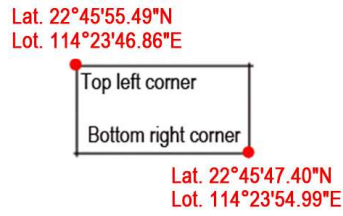
e=N means north latitude, e=S means south latitude

j=E means east longitude, j=W means west longitude

aa,bb,cc,dd,gg,hh,ii,kk,ll,mm,nn,qq,rr,ss must be 2 digits.03

means 3. fff,ppp must be 3 numbers.011 means 11.

E.g. The first Lat.22°45'55.49"N, Long.114°23'46.86"E
The second Lat.22°45'47.40"N, Long.:114°23'54.99"E



17:07 ✓
123456I1,1,0,22455549N,114234686E224547
40N,114235499E

Command SMS

17:07
SET GEO OK!DATE:11/06/27,TIME:
09/03/33,LAT:22.7646216N,LOT:
114.3976250E,Speed:000.0,0-0-1-1-54-27,000

Reply SMS

17:14
StockadeI1-IN!DATE:11/06/27,TIME:
09/13/38,LAT:22.7646216N,LOT:
114.3976250E,Speed:000.0,0-0-1-1-54-25,000

**GEO-Fence
Alarm SMS**

15. Set the local time

Send SMS "**123456Ltime zone**" to set the local time

Note: L must be capital, + in the time zone means east, - in the time zone means west. Time zone must be 2 numbers. So Beijing time zone should be like this: +08

E.g. send "123456L+08" to set the time to the Beijing time
send "123456L-08" to set the time to Los Angeles time

Note: Please send "**123456L+05:30**" to set the India time.

16. GPRS setting

Send SMS "**123456B**" to get the IMEI number of the unit.

Note: B must be capital.

E.g. send SMS "**123456B**"

Note: Before you execute the following GPRS connection, please submit the IMEI # to the manufacturer to register the IMEI #.

In order to use GPRS function, the user needs to set IP, Port and APN (Access Point Name) by sending SMS commands. Make sure that the SIM card in the tracker has the GPRS function activated.

Send SMS "**123456C\$\$\$,IP:Port**" to set the APN, IP and port.

Note: C must be capital. Please get APN from your local GSM

operators and the APN is case sensitive. Users do not need to input the server's IP & Port if you use the manufacturer's server.
E.g. send SMS "123456CMNET".CMNET is the APN of China Mobile, and it will connect the manufacturer's server as a default mode.

Note: The APN should be in wap mode.

Send SMS "123456O&&&&, @ @ @ @" to set the username and password for APN.

Note: &&&& is the username and @@@@ is the password. O must be capital. If the GSM provider doesn't create a username and password for the APN, you can ignore this command.

E.g. send SMS "123456Owap, wap".

Note: The username and password should be in wap mode.

Send SMS "123456D" to turn on GPRS connection

Note: D must be capital.

E.g. send SMS "123456D"

Send SMS "123456E" to turn off GPRS connection

Note: E must be capital.

E.g. send SMS "123456E"

17. Check tracker's parameters

Send command 123456G to check the parameters

The respond SMS is as follow:



20:08
Telephones:A;B;C;D;E I
+8613510220020;F;G;H;CMNET;Speed:
80;0;0;0;0;0;1;BAT:56,30% II III
IV V

I Telephones: A; B; C; D; E (the phone number of A1; A2; A3; A4; A5)

II CMNET is China mobile's APN

III Speed: 80 is over speed value

IV 0;0;0;0;0;0;1 :Over speed alarm; auto-track; auto-arm; Move alarm; Rrm; Low battery alarm(0 is OFF, 1 is ON)

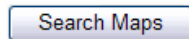
V BAT: 56, 30%: 56 is the power value. 30% is low power alarm value

18. Displaying location on Google map

Go to <http://maps.google.com> and type in the latitude and longitude like this: **22.7640801N,114.3975566E**



Click search button, then you can see the position.



Download Google earth software from <http://earth.google.com/>
Start the Google Earth software and type the latitude and longitude into the software like this: **22.7640801N,114.3975566E**. Click search. Then you can see the position.



18. Displaying location on your cell phone



It will reply a location URL SMS like:

<http://maps.google.com/maps?f=q&hl=en&q=22.7647333,114.3978316&ie=UTF8&z=16&iwloc=addr&om=1speed:000.0.&imei=012207009017010>

Click on the URL, then you can see the location

20. Real time tracking on website or PC software

The device can be tracked on our tracking platform, please contact us for more information.



Tracking website



PC software

Note: alternative from tracking website and PC software

21. 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. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
6. Don't paint the unit, this may cause some foreign materials left in between the parts.
7. Don't disassemble or refit the unit.
8. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
9. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.


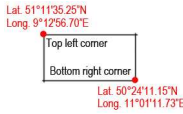
SMS commands list

Appendix*

➤ name	➤ Sentence content	➤ Description
➤ Set authorized numbers	➤ 123456A1,phone number ➤ 123456A2,phone number ➤ 123456A3,phone number ➤ 123456A4,phone number ➤ 123456A5,phone number	➤ A1,A2,A3 is for setting the 3 SOS numbers. ➤ A4,A5 is for the call center number Phone number must include the country code like +8613812345678. +86 is the country code of China. Please do not use '00' instead of '+'
➤ Sample of setting authorized numbers	➤ 123456A1,+8613812345678 ('A' and the comma must be English)	➤ Set +8613812345678 as the first SOS number (A1).
➤ Delete authorized numbers	➤ 123456A1,D ➤ 123456A2,D ➤ 123456A3,D ➤ 123456A4,D ➤ 123456A5,D	➤ A1,A2,A3 is for deleting the 3 SOS numbers. ➤ A4,A5 is for deleting the call center number
➤ Switch to the Talking mode	➤ 123456U0 Calling in 2-way voice mode	➤ The tracker will pick up the incoming call then the call center can talk to the driver.

➤ Switch to the Listen-in mode	➤ 123456U1 (Default Mode) Calling in listen-in mode	➤ The tracker will pick up the incoming call then the call center can hear the sound around the tracker.
➤ Switch to the Listen-in mode	➤ 123456U2 SOS Call in listen-in mode	➤ When you make the SOS call, just the call receiver can hear the sound around the tracker
➤ Switch to the Talking mode	➤ 123456U3 (Default Mode) SOS Call in 2-way voice mode	➤ The mode is 2-way voice communication after hitting the SOS
➤ Get position by SMS	➤ 123456F	➤ It will reply the latitude and longitude as well as a link to the cell phone
➤ Set continuous tracking	➤ 123456Mx.yyyz	<ul style="list-style-type: none"> ➤ x=1 means on, x=0 means off ➤ yyy means time interval. If z=S/M it should be <=255. If z=H, it should be <=090. It must be three numbers, 030S means 30S ➤ Z means time unit. z=S means second, z=M means minute, z=H means hour

➤ Sample of Setting continuous tracking	➤ 123456M1,030S	The tracker will reply the position according to the time interval you set (30 seconds). If the tracker has connected to server it will send to the server by GPRS or it will be sent to the cell phone by SMS
➤ Set the speeding alarm	➤ 123456Jx,yyy	➤ x=1 means on, x=0 means off ➤ yyy means the alarm speed, it should be <250 and must be three digitals, e.g. 080=80km/h.
➤ Sample of setting speeding alarm	➤ 123456J1,080	➤ The tracker will send a speeding alarm to server if it is over the 80km/h

<p>➤ Set GEO fence</p>	<p>1234561x,y,z, aabbccddeffggghhij kkllmmnnppppqrrs sj</p>  <p>Lat. aa°bb'cc.dd" Long. fff°gg'ff.ai"</p> <p>Top left corner</p> <p>Bottom right corner</p> <p>Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"</p>	<p>➤ x=NO. of the GEO-fence(1-5),5 GEO fence can be set</p> <p>➤ y=1 means on, y=0 means off</p> <p>➤ z=0 means go in, z=1 means go out</p> <p>➤ e=N means the north latitude, e=S means the south latitude</p> <p>➤ j=E means the east longitude, j=W means the west longitude</p> <p>➤ aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3.</p> <p>➤ fff,ppp must be 3 numbers.011 means 11</p>
<p>➤ Example of setting GEO fence</p>	<p>12345611,1,1,511135 25N009125670E 50241115N011011173 E</p>  <p>Lat. 51°11'35.25"N Long. 9°12'56.70"E</p> <p>Top left corner</p> <p>Bottom right corner</p> <p>Lat. 50°24'11.15"N Long. 11°01'11.73"E</p>	<p>➤ The tracker will send an alarm data if it is in/out the district you set.</p>

➤ Set the time zone	➤ 123456Lxyy	➤ x=+ means east x=- means west ➤ yy means the time zone, must be 2 numbers
➤ Sample of setting the time zone	➤ 123456L+08	➤ Set the east 8 zone
➤ Set the low battery alarm	➤ 123456Nx.yy	➤ x=1 means on,x=0 means off yy is the alarm battery percentage. It must be<45 and 2 numbers.
➤ Sample of setting the low battery alarm	➤ 123456N1,40	➤ The tracker will send a low battery alarm if the battery is lower than 40%
➤ Modify the password	➤ 123456H456789	➤ 456789 is the new password, new password must be 6 numbers
➤ Set the APN,IP and port	➤ 123456C\$\$\$\$,IP:Port	➤ \$\$\$\$ is the APN, you can get the APN from your local GSM provider.
➤ Sample of setting the APN	➤ 123456CCMNET,119.122.101.91:9289	➤ CMNET is the APN of China mobile.

➤ Set the username and password for APN	➤ 123456O&&&&, @ @ @ @	➤ &&&& is the username and @ @ @ @ is the password. ➤ If the SIM card doesn't need username and password for the APN, pls ignore this command
➤ Sample	➤ 123456Ointernet,internet123	➤ The user name is internet and the password is internet123.
➤ Open ➤ GPRS	➤ 123456D	➤ The tracker will send a confirmation SMS back after successful connection.
➤ Close ➤ GPRS	➤ 123456E	➤ The tracker will close the connection with the server.
➤ Get the IMEI number	➤ 123456B	➤ It will reply the IMEI number of the tracker.
➤ Check the setting	➤ 123456G	➤ Check all parameters set in tracker
➤ Reset the device	➤ RESET!1	➤ Tracker will be reset and keep all the configurations
➤ Refresh the device	➤ RESET!	➤ Tracker will be reset and erase all the configurations