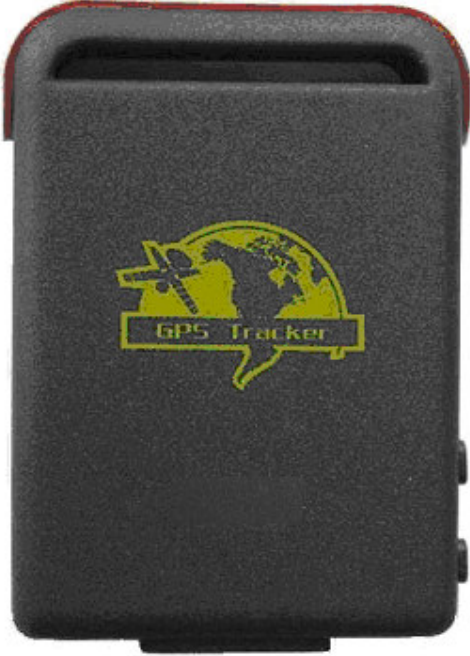


GPS/GSM/GPRS TRACKER MANUAL



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P.S:Initialization(Before using the tracker, please initialize it firstly.

Send “begin123456” in SMS to the unit, it will reply “begin ok” and initialize all the settings.

1 Summary

Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

2 Applications

- Z Vehicle rental / Fleet management etc
- Z Protect child / the old / the disabled / pet etc
- Z Provide peace-of-mind for businessmen
- Z Manage personnel

z Track criminals secretly

3 Hardware Description

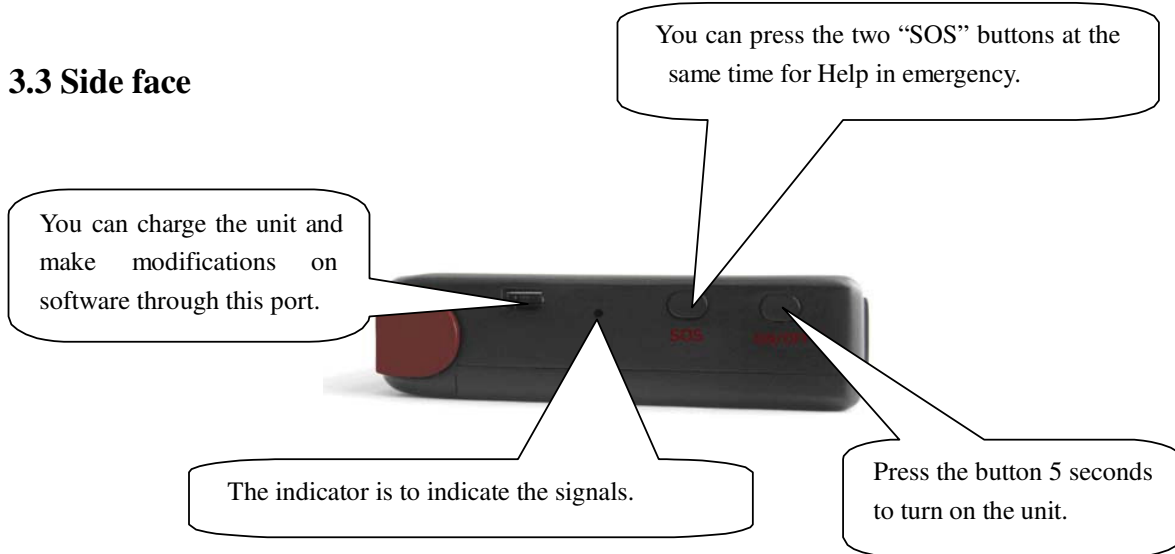
3.1 Front face



3.2 Rear face



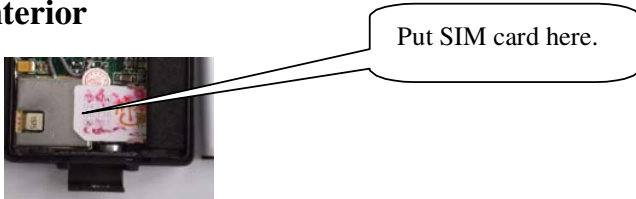
3.3 Side face



3.4 Bottom face



3.5 Interior



4 Specs.

Content	Specs.
Dim.	64mm x 46mm x 17mm(1.8''*2.5''*0.65'')
Weight	50g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Reacquisition 0.1s Cold status 45s Warm status 35s Hot status 1s
Car charger	12—24V input 5V output
Wall charger	110—220V input 5V output
Battery	Chargeable changeable 3.7V 800mAh Li-ion battery
Standby	48hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

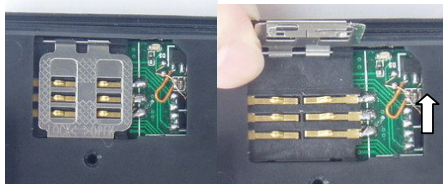
5 Usage

5.1 SIM card installation

See to it that there is no **call transfer** and **call display**, and **PIN code** is off.

Steps:

- 1 Open the rear cover, and pick out the battery.
- 2 Push the foil along and turn it left.





3 Put the SIM card into the holder, and turn the foil right and fasten it in place.



5.1 Battery and Charger

Do charge the battery to capacity in 8 -12 hours for first use. Please use the battery and charger provided by the manufacturer. This unit adopts built-in Li-ion battery, and full battery will support around 48 hours use on end. After first use, the battery can be charged fully in 3-5hours for second use.

Cautions:

- a: For it's Li-ion battery, which contains harmful chemicals and may burst, please don't bump, puncture it violently and keep it off fire.
- b: Please charge the battery in time to keep it working normally.

5.2 Startup

- z Put the SIM card and battery in place.
- z For first use, please initialize the unit and restore it to default setting.(please refer to -----for instruction.)
- z Turn on the unit **outdoors** by pressing the “on/off” button until the indicator is on.
- z In 10 or 40seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals. The indicator will keep flashing every 4 seconds when the unit has received the signals, otherwise it will keep on.
- z When this unit receives GPS signals normally, you can use it and do all the following settings.

5.3 Change the password

Send SMS password+old password+space+new password. (default password: 123456)

5.4 Authorization

5.4.1 Call the tracker for 10 times, it will make the cell phone number as the authorized number automatically.

5.4.2 Send SMS admin+password+space+cell phone number to set up a authorized number. The other authorized numbers should be set by the first authorized number.

5.4.3 Send SMS noadmin+password+space+authorized number to delete the authorized number.

5.4.4 Set up the other authorized numbers by the first authorized numbers. The sms is like this: admin123456+space+the mobile number. You will get “admin ok” if you are successful to authorize it. The tracker will send SOS to all the authorized numbers if you press OS button.

5.5 Auto Track

5.5.1 Send SMS t030s005n+password to the unit, which means it will reply SMS 5 times in 30s interval.(s: second, m: minute, h: hour).

5.5.2 Send SMS t030s***n+password to the unit, it will reply SMS heaps of times

5.5.3 Send notn+password to delete the “ auto track “.

5.6 Monitoring Mode(voice surveillance mode)

You need have a command to exchange the voice surveillance mode(monitor mode) to tracking mode

Send SMS monitor+password, the response from the tracker is “monitor ok” then you can hear what happen around the tracker after you call.

5.7 Tracking Mode

Send SMS tracker+password, the response from the tracker is “tracker ok”,then you get the position after you call.

5.8 Geo-fence

Set up a geo-fence for the unit to restrict its movements within a district. The unit will send the message to the authorized numbers when it moves out of the district.

Notes: This function will be invalid if the unit moves outside the district. You need to re-set it if you want this function again.

5.8.1 Send SMS stockade+password+space+latitude,longitude; latitude,longitude to unit to set the restricted district. 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.

After the unit stays immobile in a place for 3-10 minutes, the user can send “stockade123456 aaaa.aaaa , bbbb.bbbb; xxxx.xxxx ,yyyy.yyyy” in SMS to the unit, it will reply “stockade ok!” and the current position coordinates. aaaa.aaaa, bbbb.bbbb is the coordinate of the top left corner of the Geo-fence, while xxxx.xxxx, yyyy.yyyy is the coordinate of the bottom right corner.

5.8.2 Send SMS nostockade+password to deactivate this function. When in Geo-fence & location lock status, the unit will locate every 5 minutes.

This function will be out of effect after the unit moves outside the district.

5.8.3 Response SMS format: stockade!+geo-info. It will alarm one time in each setting.

5.9 Movement alert

This function is using for the owner want to get alert when the tracker moved.

5.9.1 Send SMS move+password to the unit to set the movement alert.

5.9.2 Send SMS nomove+password to deactivate the movement alert.

This function will be out of effect after the unit moves outside the district.

Response SMS format: move!+geo-info. It will alarm one time in each setting.

6 Overspeed alert:

This function use for the owner want to control the target's speed.

6.1 Send SMS speed+password+space+the speed to be limited, for example “speed123456 080”

6.2 Send SMS nospeed+password to deactivate the overspeed alert, for example “nospeed123456”

Response SMS format: speed+080!+Geo-info (suppose the speed is 80km/h). The tracker will

Check the speed in 10m interval and alarm if it is overspeed.

7 IMEI checking:

Send SMS imei+password

8 SOS

Press the SOS for 3 second, it will send “ help me !+ Geo-info “to all the authorized numbers every 3 minutes. It will stop sending such a SMS when one of the authorized number reply SMS ”help me!” to the tracker.

9 Low battery alert

Response SMS format: low battery+Geo-info.

It begins to alert when it is 3.7V and send you SMS in 30m interval.

10 Hidden number tracking

When a hidden authorized number calls the tracker, the tracker will reply SMS with the hidden number&Geo-info to all the authorized numbers.

10.1 Send SMS “hide number” to set up the hidden number.

10.2 Send SMS “nohide number” to delete the hidden number.

11 SMS center(or appointed number)

11.1 Send SMS adminsms+password+space+cell phone number to set the SMS center.

If the SMS center is set up, when an authorized number send SMS to the tracker, the tracker will reply a SMS with Geo-info & authorized number to SMS center.

11.2 Send SMS noadminsms+password to cancel the SMS center.

Response SMS format: authorized number+Geo-info

12 Power saving mode

12.1 Power saving mode for GPS, not for GSM: it will switch to power saving mode for 10 minutes after positioning, the standby current for the tracker is about 20 mA under this mode.

12.2 Power saving mode for GPS and GSM: it will switch to power saving mode when without positioning request, the standby current for the tracker under this mode is about 10 mA. It will set out when there are phone calls to the tracker. Under this mode, the tracker only has function of positioning by making phone call , does not have other functions.

Note: ◆ The SMS message must in Text format, can't be identified for PDU format.

◆ Power on the tracker outdoor when use the tracker for the first time, it can search the GPS signal nearby, it also greatly shorten the time of searching the GPS signal for the future use.

13 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.

14 Faults & The solutions

Faults	Solution
Startup Fail	Check the battery and see if it is fully charged or correctly installed.
Hangup Fail	In existence of an authorized number, an unauthorized number dials up the unit. Please initialize the unit and re-set up the authorized numbers.
Monitor Fail	Check if the authorized number is setup or in the coverage of signals.
Location report in digits of zeros.	Don't use it in the place beyond reach of signals. Place the unit outdoors, especially when starting it up.

QUICK GUIDE

1 Specs.

Content	Specs.
Dim.	64mm x 46mm x 17mm(1.8"*2.5"*0.65")
Weight	50g
Network	GSM/GPRS

Band	850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Reacquisition 0.1s Cold status 45s Warm status 35s Hot status 1s
Car charger	12—24V input 5V output
Wall charger	110—220V input 5V output
Battery	Chargeable changeable 3.7V 800mAh Li-ion battery
Standby	48hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

2 Operation

- 1) Prepair a SIM card which is the same sim card for your mobile,close the pincode pls.
- 2) Put the SIM card in a mobile,then call it by your mobile to check whether it can display the calling number. Send a SMS to your mobile and check whether you can get the SMS and reply it directly.
- 3) Sometimes the telephone will shift to other mobile number if there is nobody answers for one mobile number.Pls close this function also.
- 4) Put the SIM card and the battery to the tracker.
- 5) Put the tracker outside to get the signals.
- 6) Send SMS “begin123456” to the tracker to initialize it. (123456 is the default password)
- 7) Call it when the indicator begins to flash.It will hang up and send you SMS with lantitude,longitude.You can go to google earth with these information to check the position.
- 8) Send SMS “admin123456 *****” to the tracker by your mobile to authorize your mobile number while ***** is your mobile number.There is a space between 123456 and *****.(123456 is the default password)
- 9) Send SMS “t020s002n123456” to the tracker.It will send you SMS 2 times in 20s interval.You can choose the times and the interval by yourself.(s—second, m---minite, h---hour) You can send SMS “t020s***n123456” to the tracker if you want the tracker to send you SMS without stopping.
- 10) Press SOS button. The tracker will send you SMS without stopping until you send a SMS “help me” to it.
- 11) If you want to change the password,pls send SMS “password123456 *****” to the tracker while ***** is the new password(the password should be 6 digitals).
- 12) Pls remember the password if you have changed otherwise you have to download the software again to reset it to the default situation.
- 13) We give the testboard and some wires for each customer for them to download the software.As to how to download, I will tell you how to do when you need to do.