

Preface

Thank you for purchasing the tracker. This manual shows how to operate the devices smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release.

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1 Summary

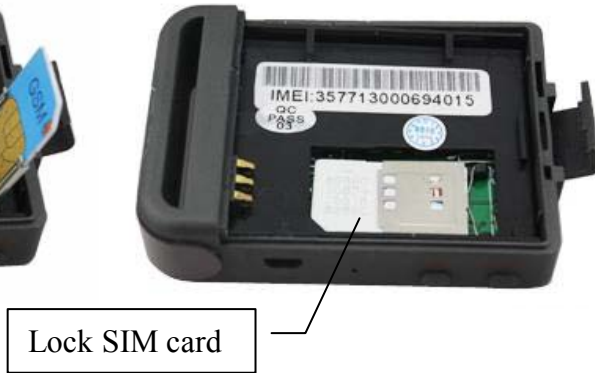
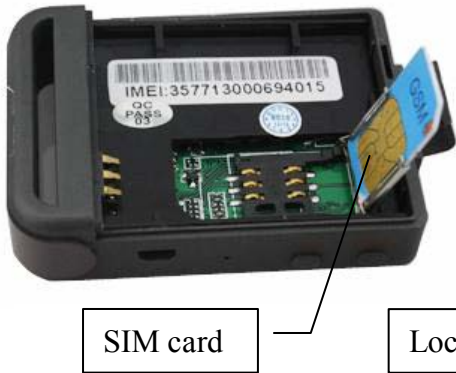
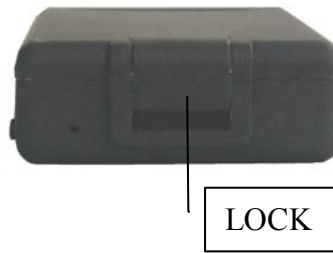
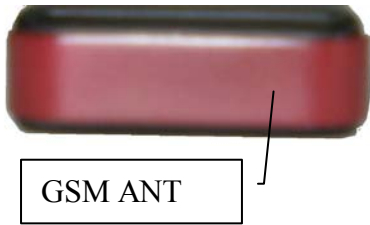
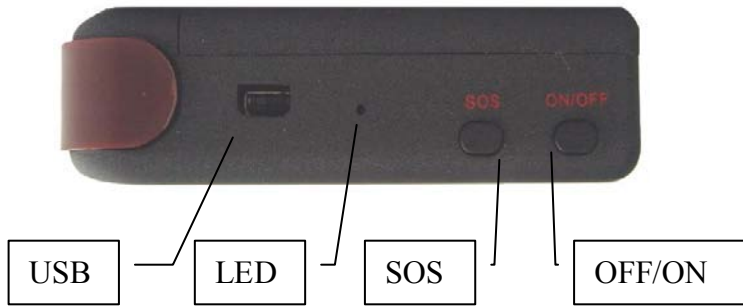
Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

2 Applications

- Vehicle rental / Fleet management etc
- Powerful magnet+water proof, adsorbing in the hidden place of car.
- Protect child / the old / the disabled / pet etc
- Provide peace-of-mind for businessmen
- Manage personnel/Track criminals secretly

3 Hardware Description





4 Specs.

Content	Specs.
Dim.	64mm x 46mm x 17mm(1.8’’*2.5’’*0.65’’)
Weight	50g
Network	GSM/GPRS
Band	900/1800/1900Mhz
CPU	STCMCU
GPS chip	SIRF3 chip
GSM module	SIMCOM SIM300/SIM900B
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Cold status 45s Hot status 1s
Wall charger	110—220V input 5V output
Battery	3.7V 850mAh 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

Make sure that there is no call transfer and call display is on, and PIN code off. The SMS message must in Text format, can't be identified for PDU format.

5.2 Battery and Charger

Do charge the battery to capacity in 24 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 3-5 hours.

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.

5.3 Startup

- Put the SIM card and battery in place.
- Turn on the unit outdoors by pressing the “on/off” button until the indicator is on.
- In 10 or 40 seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals. The indicator will keep flashing every 3 seconds when the unit has received the signals,
- When this unit receives GPS signals normally, you can use it and do all the following settings.

5.4 Initialization

Send “begin+ password” in SMS to the unit, it will reply “begin ok” and initialize all the settings. (default password: 123456)

5.5 Change the password

Send SMS password+ old password+ space+ new password to change the password.

5.5.1 please keep the new password in mind, contact with local dealers once lost .

5.5.2 Make sure the new password is in 6 digits, or else the tracker can not recognize the password.

5.6 Authorization

There are only 5 numbers able to be authorized.

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

5.6.2 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. If the number is successfully authorized, the unit will reply “admin ok!” in SMS.

5.6.3 For roaming purpose, you have to add your country code ahead of the cell phone number, for example, please send admin123456 008613322221111 to tracker

5.7 Real-time polling

5.7.1 If there is no authorized number, when any number dials up the unit, it will report a Geo-info; If there is already an authorized number, then it will not respond when an unauthorized number calls it up.

5.7.2 When an authorized number dials up the unit, it will hang up and report a real-time Geo-info as below:



Data format (default)



Google link format

send smslink123456 to switch the format to Google map link format, visit the link to see the map

Cancel Google map Send: Begin123456

5.8 Auto Track (To implement 5.20)

Report a Geo-info at 30s intervals to the authorized numbers for 5 times:

5.8.1 Set up: send SMS "t030s005n password" to the device, it will send latitude and longitude information every 30 seconds, totally 5 times. (s: seconds, m: points, h: hours). Setting the shortest time interval 030s

the longest time 255h (interval 255 hours), the frequency 999n must set maximum with three numbers.

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

5.8.3 Cancel: Send tmno+password to delete the "auto track"

Remark: the interval must not be less than 30s.

5.9 Voice Surveillance

In this mode, the user can dial up the unit to monitor the voice (please refer to 5.10 for instruction).

5.10 Modes switch between "track" and "monitor"

5.10.1. The default mode is "track".

5.10.2. Send SMS monitor+password to the unit, and it will reply "monitor ok!" and switch to "monitor" mode.

5.10.3. Send SMS tracker+password to the unit, it will reply "tracker ok!" and restore to "track" mode.



5.11 Geo-fence (To implement 5.20/5.82)

Set a geo-fence to restrict car within a district. The unit will send the message to the authorized numbers when it breaches the district.

5.11.1 Set up: When the unit stays immobile in a place for 3-10 minutes, the user can Send SMS stockade+ password+ space+ latitude, longitude; latitude, longitude to unit to set the restricted district. when breach, it will send SMS “stockade!+geo-info” to authorized numbers.

Remark : The first latitude&longitude is coordinate of the top left corner of the Geo-fence, the second latitude&longitude is the coordinate of the bottom right corner. It will alarm one time in each setting.

5.11.2 Cancel: Send SMS nostockade+ password to deactivate this function.

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

5.14 Movement alert (To implement 5.20/5.82)

5.14.1 Set up: When the unit stays immobile in a place for 3-10 minutes, the user can send SMS move+ password to the unit, then the unit will reply “move ok!”. In case of such a movement (the unit default distance is 200M), it will send SMS “Move” along with a Geo-info to the authorized numbers. It will alarm one time in each setting.

5.14.2 Cancel: Send SMS n omove+ password to deactivate the movement alert.

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

5.15 Over speed alert (To implement 5.20/5.8.2)

5.15.1 Set up : Send SMS speed+password+space+080 to the unit (suppose the speed is 80km/h), and it will reply “speed ok!”. When the target moves exceeding 80 km/h, the unit will send SMS speed+080!+Geo-info to the authorized numbers. It will alarm one time in each setting.

5.15.2 Cancel: Send SMS nospeed+ password to deactivate the overspeed alert

Remark: It is recommended that the speed alarm is set at not less than 50km/h. For below that rate, it may cause the excursion of the GPS signal influenced by clouds etc.

5.17 SOS button

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 any authorized number reply SMS ”help me!” to the tracker.

5.18 Low battery alert

It begins to alert when it is 3.7V and sends you SMS in 30m interval.
SMS format: low battery+Geo-info.

5.19 Change time

5.19.1 Send SMS “ time+space+zone123456+space+time zone to change time”.

For example, Send SMS“ time+space+zone123456+ space+ 8 ” (time zone of China).

5.20 GPRS setting

Platform monitor: User must send SMS to set up IP, port and APN before starting GPRS.

5.20.1 Setting up APN

5.20.1.1 APN standards for Access Point Name and different country maybe with different APN. For more information about the local APN, inquire with your local GPRS network operator.

5.20.1.2 Send SMS “APN123456 + Space + your local APN” to unit tracker will reply “APN OK”.

5.20.1.3 eg. Send SMS “APN123456 CMNET” tracker will reply “APN OK”.

Notes: 123456 is the password and CMNET is APN of China.

5.20.14: IP and port:

Send sms: adminip+ passwd+ space+ IP+ space+ port to tracker, tracker will reply adminip ok . Cancel : send sms: adminip+ passwd to cancel this step.

After finished above steps pls send sms: t030s***n123456 to tracker.

Pls note that: ask the user name and passwd to login the platform from dealer before real time tracking on platform.

6 Cautions

1. Keep the unit dry.
2. Don't put the unit in overheated or overcooled places.
3. Handle carefully. Don't vibrate or shake it violently.
4. Don't disassemble or refit the unit.
5. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
6. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.

7 Faults & The solutions

Faults	Solution
Startup Fail	Check the battery and see if it is fully charged or correctly installed.
Not hang up when calling	When call tracker will not hang up and led light is on all the time : wrong sim card installation.
No reply	1: no money with sim card; 2: not the authorized number, 3: Send wrong command, 4: when GRPS is working also will not reply.
Location data is zeros.	Make sure the tracker is outside and no metal cover.
No data at the platform	1:Check the APN,IP port, pls check the manual 5.8 about this. 2:After several days tracker can't get the position data: take out the battery, restart it.
Work time	Work time usual : 6-8 hours, standby time: 48hours.