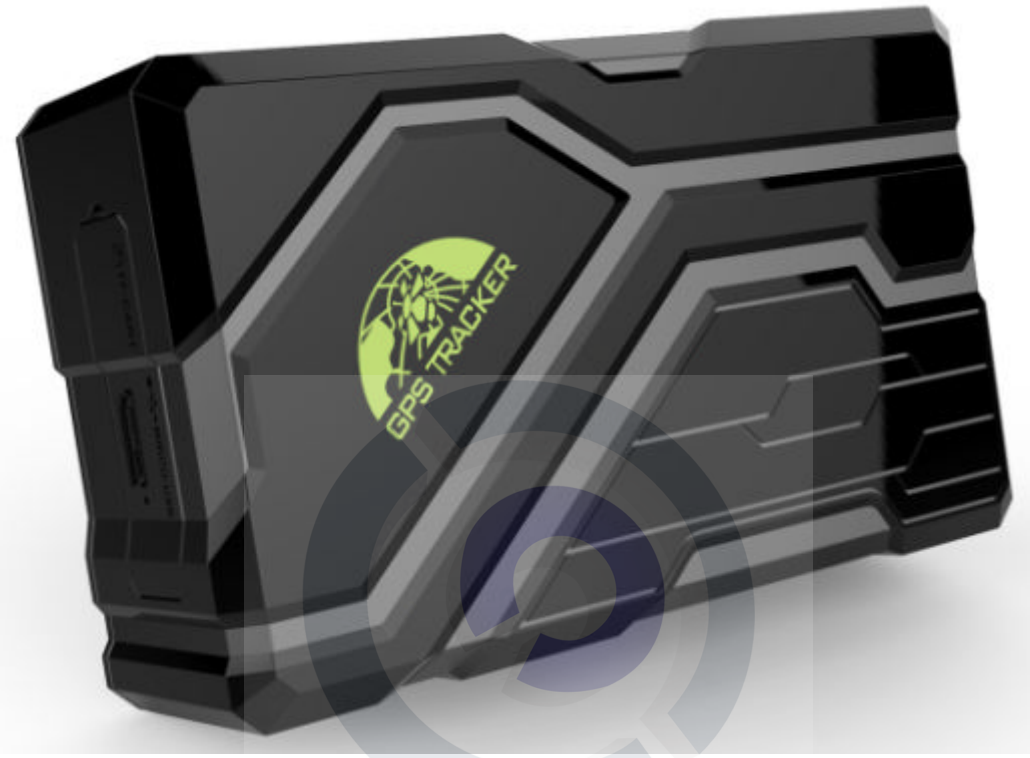
GSM/GPRS/GPS Portable Tracker
User Manual



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Preface

Thank you for purchasing the tracker. This manual shows how to operate the device 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. The manufacturer assumes no responsibility for any errors or omissions in this document.

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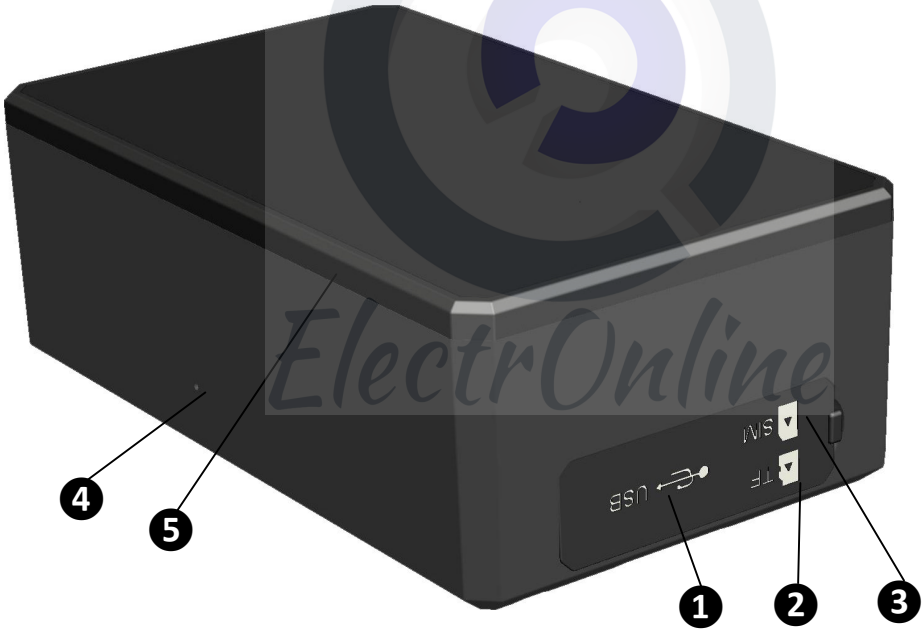
1. Introduction

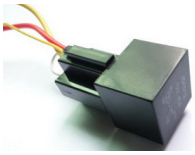


❶ USB Port ❷ TF card slot ❸ SIM card slot

❹ Microphone ❺ Powerful magnetic rear cover

2. Accessories

No.	Picture	Name	Specs
1		USB cable	MicroUSB

2		Connector wire	4PIN, for model B only
3		Relay	12V/40A or 24V/40A depends on vehicle type, for model B only

3. Specifications

Content	Specification
DIM.	106mm x 63mm x 37.5mm
Weight	343g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS Accuracy	5m
Time To First Fix	Cold status 45s Warm status 35s Hot status 1s
Battery	Chargeable 3.7V 10000mAh Li-ion battery
Storage Temp.	-40 ° C to +85 ° C
Operation Temp.	-20 ° C to +55 ° C
Waterproof Grade	IP67

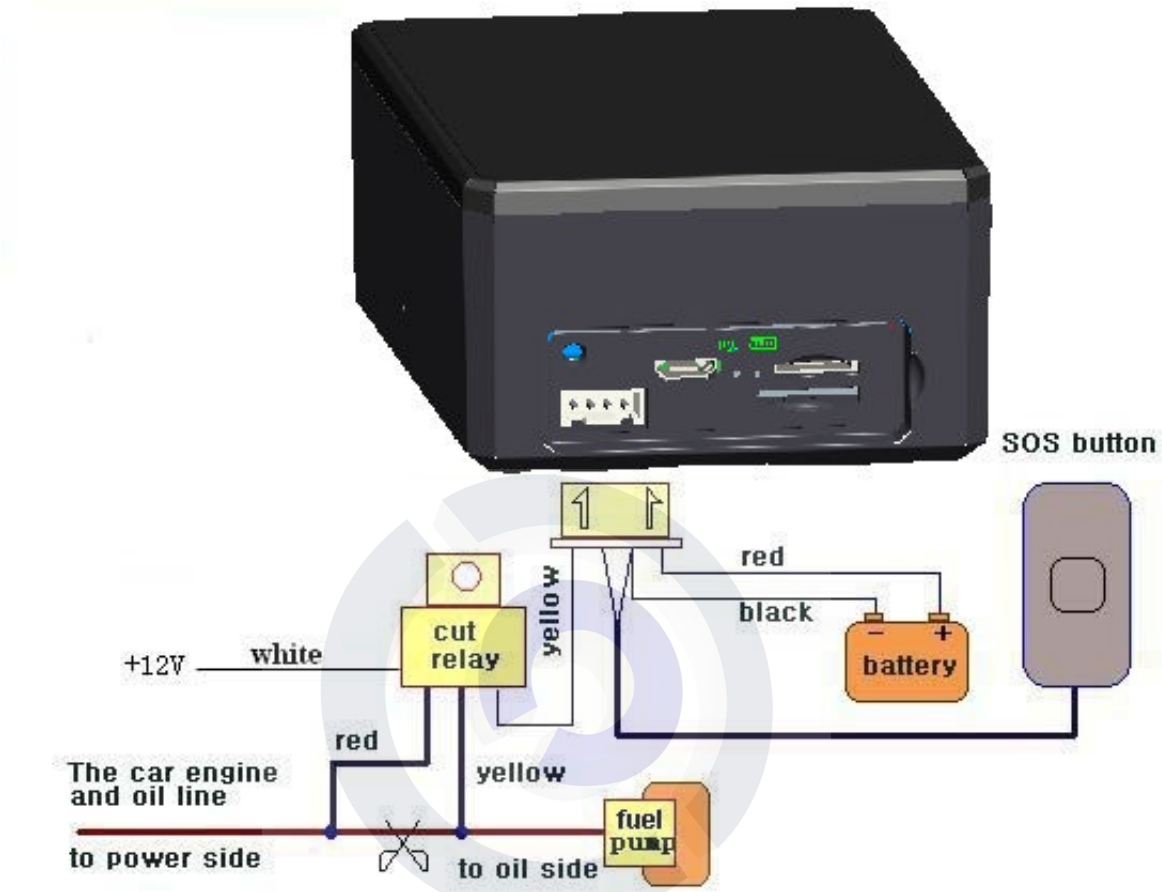
4. Quick charger

This device supports maximum 2A current quick charger.
Charger way: Connect the device to the AC adapter (Output voltage: 5V, current:2A) with the original MICRO USB cable.

Warning: Please use the original USB cable to charge, if the original USB cable is lost, the replacement USB cable is required to carry at least 2.5A and above.

5. Installation （For Model B only）

If you need to connect the external power, stop the engine and SOS function, please find the 4 PIN connector wire to connect it as following diagram.



Note: Please install SOS button on the hidden place driver can touch.

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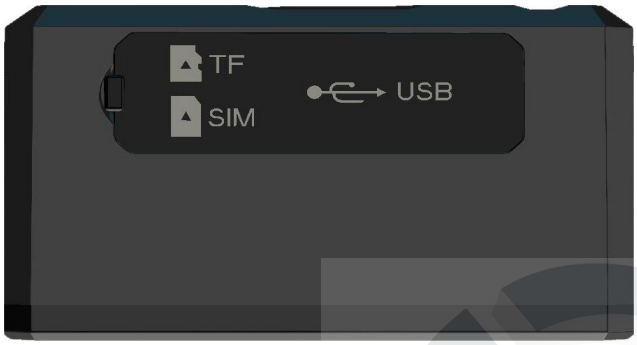
6. Insert SIM card, turn on the device

Attention: Please be sure to open the voice call function, caller display function and data flow function, and PIN code is off, no call forwarding function. The recommended data flow package is not less than 30MB per month.

❶ Open the soft glue plug.
❷ Insert TF card as the picture shows.
❸ Insert SIM Card as the picture shows, and tracker will be turned on



❹ Cover the soft glue plug

Please use the manufacturer's original charger and battery; the charge time of the battery is about 7-9 hours.

Warning: Lithium batteries contain harmful chemical constituents and may explode, please do not slam, stab or put into the fire.

Please bring the device outdoors for the first time to wait for about 10- 40 seconds to search for GSM and GPS signals to start work normally.

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7. LED indicators

Indicators	Status	
Power LED (Red)	Flash	Low battery
	ON	Charging
	OFF	Fully charged
GSM LED (Green)	ON	No GSM signal
	Flash 1 time each second	GSM mode
	Flash 2 times each second	GSM mode, GPS fixed
	Flash 3 times each second	GSM mode, GPS signal is very good

	Flash slowly 1 time each 3 seconds	GPRS mode
	Flash slowly 2 times each 3 seconds	GPRS mode, GPS fixed
	Flash slowly 3 times each 3 seconds	GPRS mode, GPS signal is very good

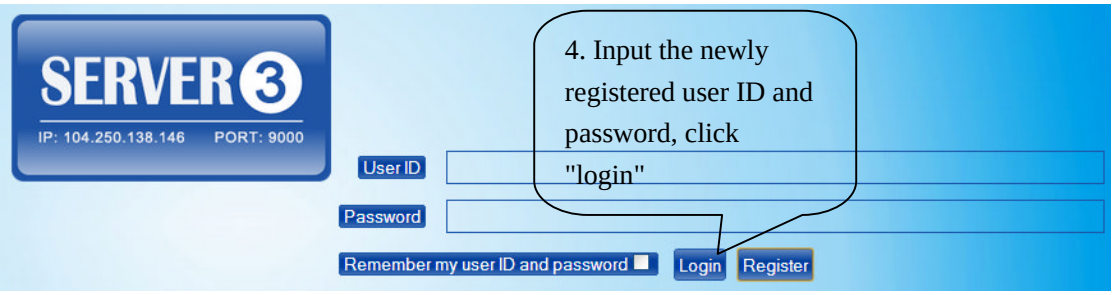
8. Instructions for web platform and mobile App

Users need to register an account on www.gpstrackerxy.com before use web platform or mobile App, account name and password is the same on web platform and mobile App.

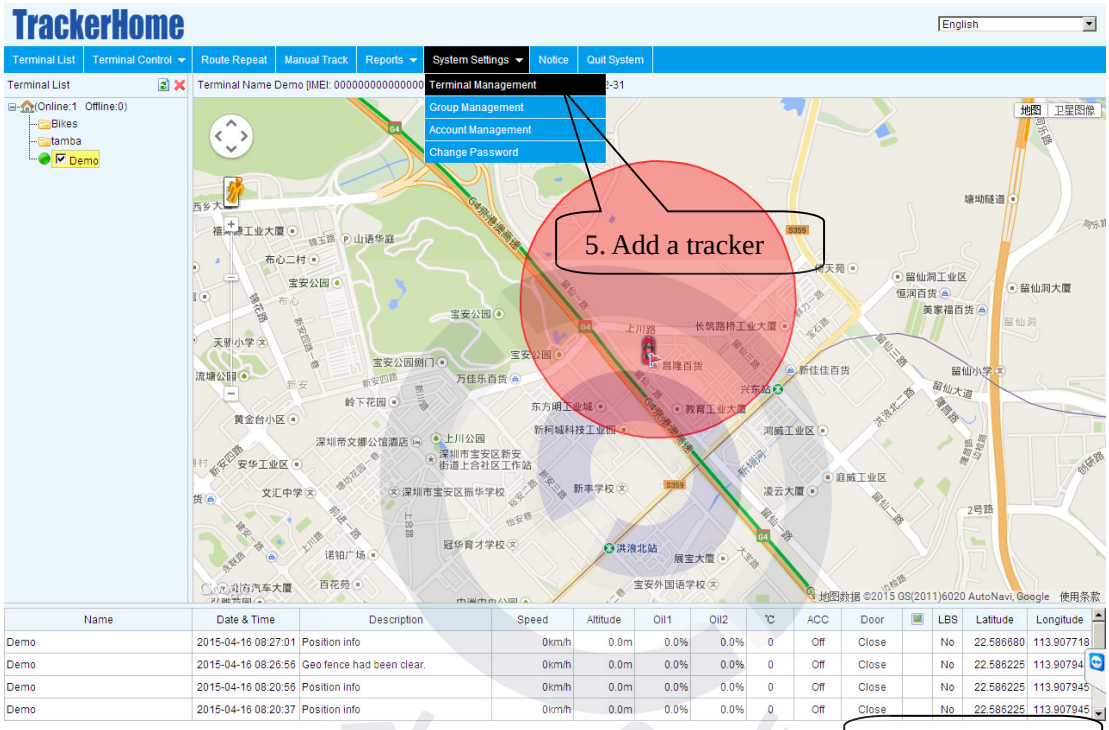
8.1 Instructions for web platform

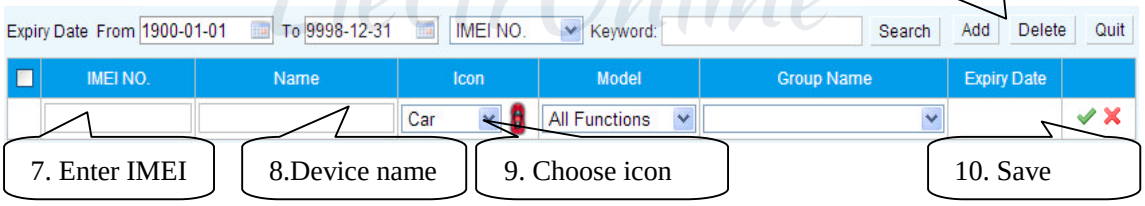
8.1.1 Register an account

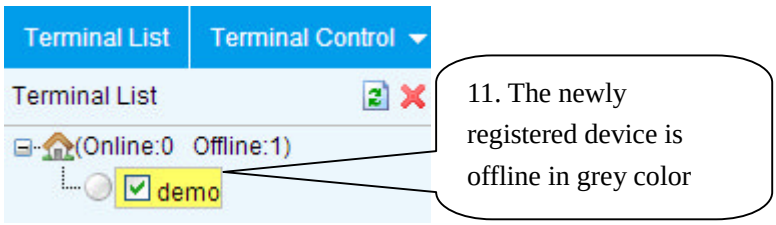
8.1.2 Login



8.1.3 Add a tracker

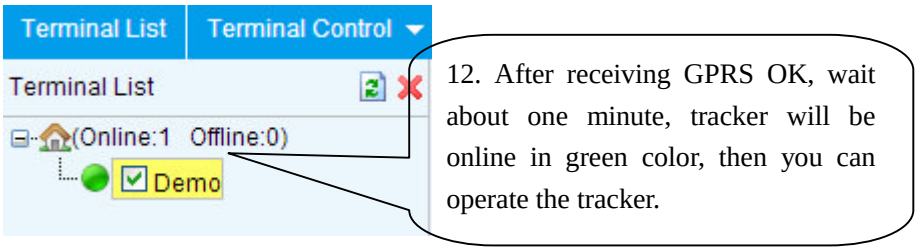






8.1.4 Configure your tracker to web platform to track it online

Step 1：Set APN，refer to 9.16.1
Step 2：Set GPRS user name and password，refer to 9.16.2
Step 3：Set IP and port, please use the corresponding IP and port of the server you choose, Refer to 9.16.3
Step 4：Switch to GPRS mode，refer to 9.16.4



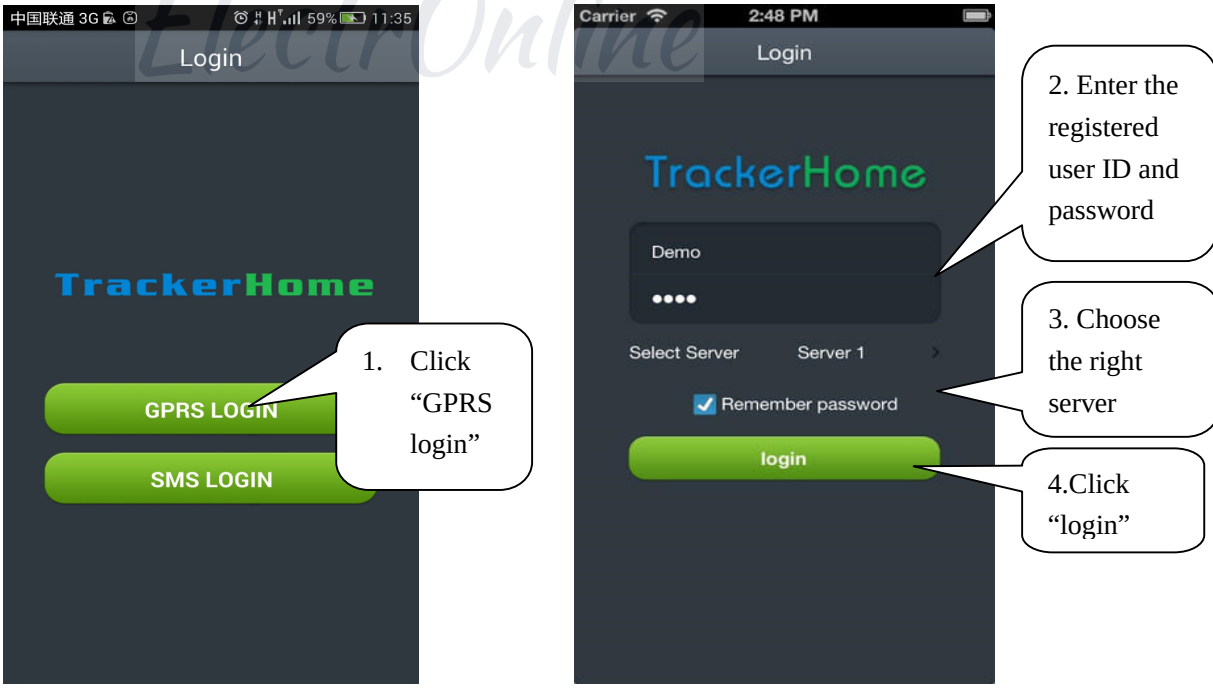
8.1.5 If the tracker is always offline (grey color), make sure the SIM card subscribe the GPRS service, and the credit is enough to surf the Internet, you can use phone to test if the SIM card can surf the Internet.
Besides, please check the APN, user name, password, IP, port settings are correct, refer to 9.14.

8.2 Instructions for mobile App

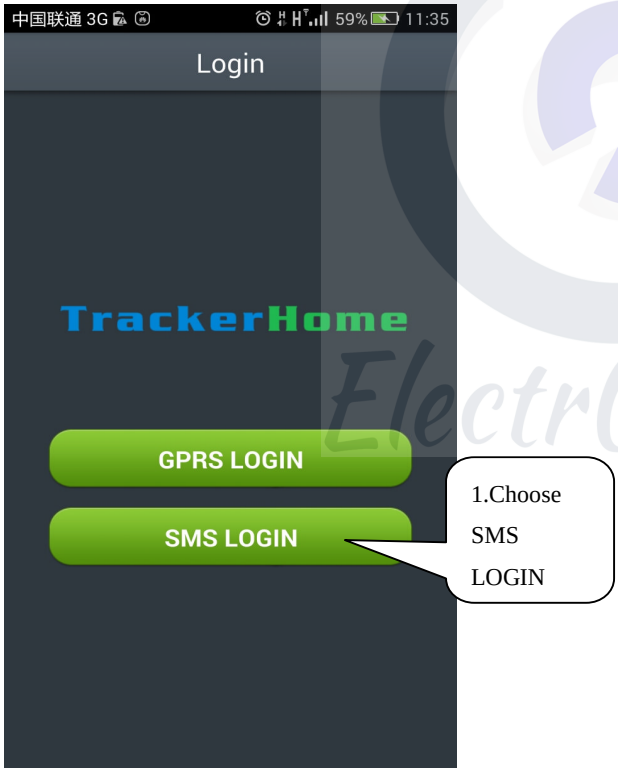
8.2.1 Download and install the mobile application.

According to your phone type, download and install mobile app below the home page on web tracking platform.

8.2.2 Login and use the GPRS version



8.2.3 Login and use the SMS version



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Remarks: "SMS login" version on Android phone can track the positions and show alarm on the map; but "SMS login" version on IOS can only send commands due to the confined policy, it cannot track the positions and show alarm on the map.

9. Function introduction

9.1. Initialization

Send SMS "begin+password" to tracker, it will reply "begin ok" and return to the default factory settings. (Default password: 123456). For example: Send SMS "begin123456", it will reply "begin ok".

9.2. Change Password

9.2.1. Send SMS "password+old password+space+new password" to the tracker to change the password. For example: Send SMS "password123456 888888" to tracker, it will reply “password OK”, it means the password has changed successfully. And please keep the new password in mind

9.2.2. Note: The new password must be 6 digits Arabic numbers, or the tracker can't recognize.

9.2.3. When reading this user manual, you will notice that we have used "+" and "space" between some words;"+" between two words means they should be written together as one word and "space" between two words means you should leave one character space between two words.

9.3. Add and Delete Authorized phone number

9.3.1. You must setup the authorized phone number before using geo-fence alarm, etc. Up to 5 numbers can be authorized.

9.3.2. Call the tracker for 10 times continuously and get its position, then it will save the cell phone number as the authorized number automatically. and reply “add master ok”.

9.3.3. Authorization: Send SMS “admin+password+space+cell phone number” to set up an 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” by SMS.

9.3.4. Delete authorization: Send SMS “noadmin+password+space+authorized number” to delete the authorized number.

9.3.5. If you want to track the target when it enters into another country, you must add the country code before the cell phone number. You should authorize your number in international format as follows: “admin123456 008613322221111” to tracker to set 13322221111 as an authorized number.

9.4. Single tracking

9.4.1. If there aren’t any authorized number set-up, it will reply all calls with a location report; if there are authorized numbers set-up, then it will not respond when an

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unauthorized number calls it.

9.4.2. If you call it from authorized phone number, it will hang up and report a real-time location as below:

9.4.3. When lost fix to satellites, the message will includes the GPS coordinates of last known position and LAC code of current position as well.

9.5. Auto track continuously

9.5.1. Track with limited times upon time interval

Send SMS command “fix030s005n +password” to the tracker device, it will report the latitude & longitude at intervals of 30 seconds for 5 times. (s:second, m:minute, h:hour). This command set must be in 3 digits Arabic numbers and the maximum value is 255.

E.g. fix030s005n123456.

9.5.2. Track with unlimited times upon time interval

Send SMS “fix030s***n+password” to the tracker device, it will reply the latitude & longitude continuously at 30 seconds intervals.

Note: the interval must not less than 10s.

9.5.3. Track with unlimited times upon distance

9.5.3.1. Send SMS command “Distance+password+space+distance value”, tracker will reply “Distance ok”, and then tracker will track according to this distance value interval.

E.g Send “Distance123456 0050”, that means the distance interval is 50 meter, the value must be 4 digits Arabic numbers.

9.5.3.2. Cancel: Send SMS “nofix+password” to the tracker.

9.5.4. Smart track upon time and distance interval

9.5.4.1. Send SMS command “fix030s600s***n+password+space+distance value” to tracker. The unit of distance value is meter. E.g. Send SMS command “fix030s600s***n123456 0200”, that means track interval is 600 seconds when tracker is motionless, and tracker interval is 30 seconds when tracker is moving, or track each 200 meters movement.

9.5.4.2. Cancel: Send SMS “nofix+password” to the tracker.

9.5.5. Turning points update automatically

8.5.5.1 The tracker will update the positions automatically to web platform once the vehicle changing driving direction over pre set angle value to form a smooth trajectory consistent with the actual road, this function is only effective in GPRS mode.

8.5.5.2 Send "angle+password+space+angle" to tracker, it will reply" angle ok". e.g. angle123456 040

8.5.5.3 The angle must be 3 digits Arabic numbers, default angle value is 30 degree.

9.5.6. GPS drift suppression

8.5.6.1 This function is deactivated by default, send "suppress+password" to tracker, it will reply" suppress drift ok". The GPS data stop updating if vehicle is not driving (ACC is OFF) and latitude and longitude always keep same, and GPS data updates automatically when vehicle is moving.

8.5.6.2 Cancel: send "nosuppress+password" to tracker, it will reply" nosuppress ok ".

9.6. Exact street address

9.6.1. You must set up the APN of your local GSM network for the SIM card in tracker first before using this function, if there is user name and password for GPRS login, (Please refer to 8.16 to configure the APN, user name and password for GPRS login.)

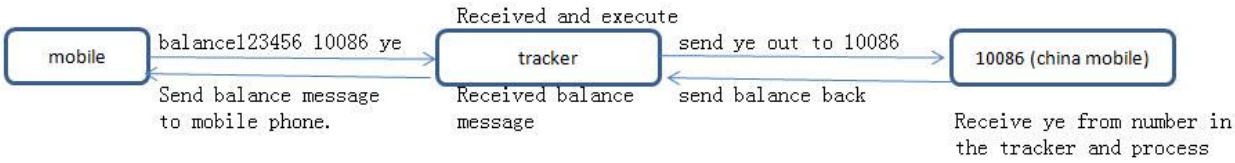
9.6.2. After configure the APN, send "address+password" to device, it will reply SMS including real street/address name. For example: No.113, Guankou 2nd Rd, Nantou, Nanshan district, Shenzhen, Guangdong, china. e.g. address123456

9.7. SIM card Balance Inquiry

9.7.1. Send SMS command "balance+password+space+carrier's phone number+space+code" to tracker, it will forward the code to carrier's phone number and return the balance message received from carrier's phone number.

9.7.2. How it works: Take the carrier "China Mobile" for example, after accept balance command, tracker will remember the "mobile phone number", carrier's number and the code;

9.7.3. And then send the code to carrier's number, and forward the message from carrier to mobile phone number which send the balance command.



9.8. Call back

9.8.1. The command to switch between Tracker mode and call back mode are "tracker" and "monitor". The default mode is "tracker" (Tracker mode).

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

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

9.9. Forward the third parties' message

9.9.1. Send SMS "forward+password+space+third parties phone number" from authorized phone number, tracker will reply"forward ok", and supports 1 third parties phone numbers at most.

9.9.2. For example, set the service phone number of carrier of the SIM card in the tracker, when message comes to remind you to charge for the SIM card, tracker will forward it to authorized phone number.

9.9.3. Cancel: Send SMS command "noforward+password".

9.10. Decide how many times of alarm message

For those alarm messages sent in cycle, you can decide how many SMS messages of alarm to be sent. Send SMS " xtime+password+005 " to tracker, alarm message will be sent 5 times once alarms are triggered .

Alarm SMS will be sent 5 times by default.

9.11. Cut off the oil and power system (B model ONLY)

9.11.1. Send command “stop+password” to tracker, tracker will execute it and reply “Stop engine Succeed”. And it will remain immobile state until next command to resume.

9.11.2. Stop mode

Execute immediately: Send command “quickstop+password” to tracker, it will reply “quickstop OK”. Then tracker will stop the car immediately after “stop” command.

Execute depends on speed(Default mode): Send command “noquickstop+password” to tracker, It will reply “noquickstop OK”, Then the tracker won’t stop the car immediately after “stop” command, instead, it will reply “it will be executed after speed less than 20KM/H”, and stop the car when the speed is less than 20KM/H.

9.11.3. Resume the Oil and Power System

Send “resume+password" to tracker, it will reply "Resume engine succeed", it means the oil supply is resumed.

9.12. Alarm functions

9.12.1. Low battery alarm

9.12.1.1. Send SMS “lowbattery+password+space+on”, it will send SMS “low battery+latitude/longitude” to authorized numbers 2 times in total at 15 minutes interval when voltage of battery is going to be about 3.5V.

9.12.1.2. This function activates by default, send SMS “lowbattery+password+space+off” to deactivate.

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9.12.2. Geo-fence

9.12.2.1. Set up a geo-fence for the tracker to restrict its movements within a district. The unit will send SMS to the authorized numbers when it goes out of this district.

9.12.2.2. 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. In case of breach, it will send SMS “stockade!+ latitude & longitude” to the authorized numbers.

Attention: 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, it will send alarm SMS at interval of 3 minutes once beyond the restricted district.

9.12.2.3. Cancel: Send SMS “nostockade+password” to deactivate this function.

9.12.3. Multi-area management

9.12.3.1. Set area

Send SMS command "area+password+space+latitude,longitude+space+areaname,distanceM" to tracker(distance unit: M for meter, K for kilometer), it will reply "area01 ok". For Example: Send "area123456 22.353648,113.543678 school,800M".

Note: 5 areas at most and the distance between two points can't be less than the total distance in the 2 commands, and different areas can't cover each other

9.12.3.2. Delete area

Send SMS command:"noarea+password+space+area name" to tracker, it will reply:"noarea ok".

9.12.3.3. Rename and set distance

Send SMS command "rename+password+space+old name;new name,distanceM" to tracker, if name is not repeated and area doesn't cover others, it will reply "rename ok!" for successful configuration.

Example: Send"rename123456 area01;school,800M", it means the new area name is "school", and covers area of a radius of 800 meters.

9.12.3.4. Activate multi-area management

Send SMS command "area+password+space+on" to tracker, it will reply "Area on ok!", when tracker enter the pre-set area, it will send SMS "area name+latitude & longitude" to all the authorized phone number, and send same SMS when goes out of the area.

9.12.3.5. Deactivate Multi-area management

9.12.3.6. Send SMS command "area+password+space+off" to tracker, it will reply"area off ok!

9.12.4. Movement alarm

9.12.4.1. Set up: when the unit stays immobile in a place for 3-10 minutes with GPS signal reception, the user can send SMS"move+password+space+0200" to the tracker (Suppose area of a radius of 200 meters, it supports 4 digits at most. Unit: Meter). It will reply "move OK". In case of such a movement (the default distance is 200m), it will send SMS "Move+ latitude & longitude" to the authorized numbers.

9.12.4.2. Cancel: Send SMS "nomove+password" to deactivate the movement alarm.

9.12.5. Over speed alarm

9.12.5.1. 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 80km/h, the unit will send SMS "speed+080!+ latitude & longitude" to the authorized numbers ,it will send only one SMS in 3 minutes in SMS mode.

9.12.5.2. Cancel: Send SMS "nospeed+password" to deactivate the overspeed alarm.

Attention: The recommended speed should be not less than 30km/h. For below that rate, it will be effected the accuracy by GPS signals drift etc.

9.12.6. GPS blind Spot alert

9.12.6.1. This function deactivates by default, send SMS “gpssignal+password+space+on”, it will send alert SMS “no gps+last valid latitude/longitude before lost signal” when no GPS signal is received.

9.12.6.2. Send SMS “gpssignal+password+space+off” to deactivate.

9.12.7. Shock sensor Alarm (Acceleration sensor alarm)

The built-in 3-axis acceleration sensor can detect it when the vehicle move, tilt or vibrate

9.12.7.1. Activate Shock alarm: Send “shock+password” to tracker, it will reply “Shock is activated!”, “Sensor alarm+latitude&longitude will be sent to authorized phone number when detecting vibration.

9.12.7.2. Cancel: Send “noshock+password” to tracker to deactivate Shock alarm.

9.12.7.3. Configure sensitivity of vibration (First level by default)

First level: alarm will be triggered after detect slight vibration; send SMS command “sensitivity+password+space+1”.

Second level: alarm will be triggered after detect medium vibration; send SMS command “sensitivity+password+space+2”.

Third level: alarm will be triggered after detect heavy vibration; send SMS command “sensitivity+password+space+3”.

9.12.8. SOS alarm (Model B ONLY)

Press the SOS button for 3 seconds, the tracker will send SMS “help me!+lat./long.” to all the authorized numbers at interval of 3 minutes. It will stop sending such an alert SMS when any authorized number reply SMS “help me” to the tracker.

9.12.9. External Power off alarm (Model B ONLY)

9.12.9.1. This function deactivates by default, send “extpower+password+space+on” to activate, it will send SMS “power alarm+latitude/longtitude” to authorized numbers when external power is disconnected.

9.12.9.2. Cancel: Send SMS “ extpower+password+space+off” to deactivate it.

9.13. Sleep mode

Sleep Mode	Description	Application Occasions	Standby Time
Always online	GPRS is always online, tracker will be intelligent to shuts down GPS module during the period which doesn't need to track.	Real time tracking	10000/31mA/24h=13.4 DAYS
Sleep by shock	GSM module runs in low power consumption when sleep; vibration and calling can wake it up.	Sleep when it is motionless, and track when start to move	10000*0.9 (Battery self-loss) /1.9mA/24h=197 DAYS
Sleep by time	GSM module runs in low power consumption when sleep; Calling can wake it up, vibration cannot wake up, GPS module shuts down when motionless and no need to track in GPRS mode.	The target doesn't need to be tracked frequently and can track it any time when necessary.	10000*0.9 (Battery self-loss) /1.9mA/24h=197 DAYS
Deep sleep by shock	GSM module shuts down when sleep; calling cannot be reached, vibration can wake it up.	Sleep if the target is motionless, and track when the target start to move	10000*0.85(Battery self-loss) /0.3mA/24h/365d=3.2 YEARS
Schedule	GSM module shuts down when sleep; calling cannot be reached, but it will wake by itself to report its position according to the scheduled time	The target doesn't need to be tracked frequently and let it report positions according to the schedules.	10000*0.85 (Battery self-loss)/0.3mA/24h/365 d=3.2 YEARS
Deep sleep by shock + schedule	GSM module shuts down when sleep; vibration can wake it up. It will wake up to update the position according to the schedule time.	The target need to be tracked when it start to move and let it report positions according to schedule when it is motionless.	10000*0.85 (Battery self-loss)/0.3mA/24h/365 d=3.2 YEARS

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9.13.1. Always online

Send SMS command “sleep+password+space+off”, tracker will reply “sleep off ok”, then the tracker will always stay online, GSM, and the LED will works all the time. GPS module shuts down intelligently according to the track interval when it is motionless and no need to track.

9.13.2. Sleep by shock

Send SMS command "sleep+password+space+shock", the tracker will reply "sleep shock ok", and will enter sleep mode if no vibration is detected, GPS module shuts down, LED will be off . Vibration or any operation can wake up the tracker. e.g. sleep123456 shock.

9.13.3. Sleep by time

Send "sleep+password+space+time", tracker will reply "sleep time ok", if no operations in 3 minutes, tracker will sleep, GPS module shuts down, and LED will be off too. Calling or SMS can wake up the tracker. In GPRS mode, GPS module shuts down intelligently according to the track interval when it is motionless and no need to track.

9.13.4. Deep Sleep by Shock

Send "sleep+password+space+deep", tracker will reply "sleep deep ok", it will sleep if didn’t detect vibration, GPS & GSM module shut down, and LED will be off too. Only vibration can wake it up, and tracker will send wake up message automatically after wake up.

9.13.5. Schedule report

Send "schedule+password+space+1h " to tracker, It will wake up every one hour, and automatically send location message after wake up. (m: minute; h: hour; d: day). The maximum time interval is set to three digits, and not more than 30 days. After sent this command, GPS & GSM module shut down, tracker runs in super lowest power consumption, calls or messages cannot wake it up. Triggered alarm can wake up the tracker to work normally, after alarm canceled, tracker come back to schedule report mode.

Cancel: After the tracker wake up, send “noschedule+password” to deactivate this function.

9.13.6. Deep sleep by shock + Schedule report

Send SMS command “sleep+password+space+schedule+space+12h”, tracker will reply “sleep schedule ok”, then tracker will wake up and send “work notify” message every 12 hours, and the vibration can wake up the tracker too, after wake up, it will send “deep shock” message.

9.14. Check the status

Send SMS command “check+password” to tracker, it will reply a message includes battery percentage, GPS signal, GSM signal, GPRS status, APN, UP, IP and port, etc.
E.g send SMS command “ check123456 ” to tracker, after execute the command, it will reply a message which includes following information：
Battery: 100%
GPRS: ON/OFF
GPS: OK/NO GPS
GSM Signal: 1-32 the higher, the better
APN: cmnet,user,password;
IP: 104.250.138.146:9000/DNS: 04.GPSTrackerXY.com:9000
Shock: ON/OFF

9.15. Check IMEI

Send SMS "imei+password" to the tracker. For example, Send SMS "imei123456" to the tracker device, an IMEI number in 15 digits will be returned.

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9.16. GPRS configuration

User must send SMS command via cell phone to set up APN, IP and port before starting track by GPRS.

9.16.1. Configure APN

APN standards for Access Point Name and differs from country to country. For more information about your local APN, please inquire with your local GPRS network operator.

Send SMS command to tracker “APN+password+Space+your local APN” via a cell phone and if executed, the tracker will reply “APN OK”.

For example: Send SMS command “APN123456 CMNET”. If executed, the tracker will reply “APN OK”.

Notes: 123456 refer to password of tracker and CMNET is the APN of Network Operator of china (China mobile).

9.16.2. Configure user, password for GPRS login

In most countries, the user name and password involving GPRS login are not compulsorily necessary, therefore, the entry can be skipped. For those countries requiring user name and password, please configure as following:

Send SMS “up+password+space+user+space+password”, If executed, tracker will reply “user, password ok!”, for example: send SMS “up123456 jonnes 666666”

Note: 123456 is password of tracker, jonnes is the user name for GPRS login, 666666 is the password for GPRS login.

9.16.3. Configure IP and port

Send SMS “adminip+password+space+IP+space+port”, tracker will reply “adminip ok” if executed.

For example: send SMS “adminip123456 104.250.138.146 9000”, tracker will reply “adminip ok” if executed. (123456 is the password of tracker, and 104.250.138.146 is the ip, 9000 is the port.)

9.16.4. Switch to GPRS mode

9.16.4.1. Send SMS command “GPRS+password” to tracker, it will reply “GPRS ok!”, that means tracker have switched to work in GPRS mode.

9.16.4.2. TCP/UDP Switch

SMS command: “GPRS+password,0,0” is used to switch to TCP mode, TCP is the default mode.

SMS command: “GPRS+password,1,1” is used to switch to UDP mode.

9.16.4.3. Send SMS command: “SMS+password” to tracker, it will reply “SMS OK!”, and switch back to SMS mode

10. Cautions

1. Don’t put the unit in overheated or overcooled places.
2. Handle carefully. Don’t vibrate or shake it violently.
3. Please use a dry cloth to clear and don’t use chemicals and cleaners.
4. Please don’t paint the device, this may lead to internal circuit failure.
5. Please don’t disassemble the device.
6. Please read the user manual carefully before installation and operation, learn something more about the voltage range. Otherwise, it won’t work properly or destroy the product.

11. Faults & the Solutions

Faults	Possible reason	Solution
Can’t turn it on	Battery is too low	Plug charger

No GSM signal	Check if SIM card load well, and confirm it is GSM network.	1. no calls can be diverted and the PIN code is locked 2. Change SIM card
Hang off fail / Call back fail	If users setup the authorized phone number, and it will be invalid to call from a non authorized phone number.	Please delete the authorized phone number or send command to initialize the settings to factory default settings.
GPRS fail to be online	1. Configure wrong APN, IP, port. 2. Check if there is GPRS subscription with carrier. 3. Balance is not enough	1. Configure again 2. Subscribe GPRS subscription 3. Charge for the SIM card.

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