FREE ONLINE GPS TRACKING SERVICE
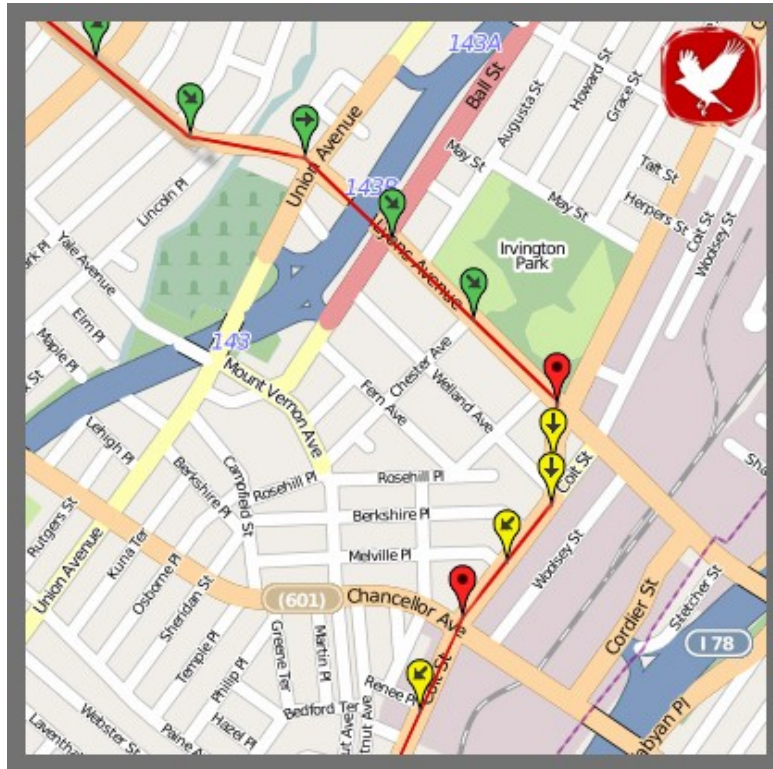
THE „DO IT YOURSELF" TRACKING SYSTEM.

CLICK HERE TO REGISTER YOUR ACCOUNT NOW!

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CARS GET STOLEN EVERY 26 SECONDS IN THE U.S.

1 2 3 4 5

THE FIRST „DO IT YOURSELF" GPS TRACKING SERVICE

Our website provides FREE, real-time GPS tracking service for anyone around the world. With our help, you can easily track your company's fleet, vehicles, or you can protect your loved ones and valuables. We are constantly working on unique methods that aim to enable anyone to install and setup a tracking device within a few minutes. Our service is completely free even if you did not buy your GPS device from us. If you do not have any theoretical or practical experience about the operation of tracking devices, please look at our „Beginners' Guide" which is a short and simple summary of the most important information. To download it, click HERE.
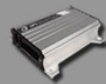
CHECK OUR SOFTWARE DEMO

CLICK HERE TO REGISTER AN ACCOUNT FOR FREE

SUPPORTED DEVICES   click here to check all...

XEXUN	MEITRACK	TELTONIKA	MEITRACK
TK102-2	MVT380	FM2200	VT310

QUICK SETUP GUIDE
TK102 and TK102-2
(…or other models look the same…)

IMPORTANT NOTES!

Place the SIM card to a cellphone and please check these few things:

SIM card has not run out of credit
SIM PIN code request is disabled
Caller ID display is turned on

After you make sure the steps above are successfully completed,
insert the SIM card to your GPS tracker and check the next page.

CONFIGURATION WITH SMS OR DATA CABLE

1.)   CONFIGURE WITH SMS COMMANDS:

Turn ON your GPS tracker and follow these steps carefuly. Send all SMS commands to the tracker correctly:

No.	Command	Info
1st	begin123456	resets all settings to factory default
2nd	apn123456 xyz	sets the required APN for GPRS configuration[1]
3rd	apnuser123456 xyz	sets the USER NAME for GPRS configuration (optional)[1,2]
4th	apnpasswd123456 xyz	sets the PASSWORD for GPRS configuration (optional)[1,2]
5th	adminip123456 **89.134.146.57 31201**	sets our server's IP address and Port number
6th	t030s***n123456	sets the report time interval to 30 seconds[3]

1   The "xyz" depends on your mobile phone company, for more information ask your SIM supplier or check their website!
2   Do not send this messages if you don't need USER NAME and PASSWORD for the GPRS connection!
3   The report interval must NOT be less than 5s for TK102-2 and not less then 30s for model TK102
4   "123456" is the default password, if you changed you need to use your chosen one
5   Do not forget to use "spaces" in the commands!

--- OR ---

2.)   CONFIGURE WITH PC AND USB DATA CABLE:

Connect the tracker:

   1.)   Install the **Prolific USB Driver** downloaded from our website
   2.)   **Connect the serial cable** to the PC
   3.)   Open the Windows „**Device Manager**"
   4.)   Check the **COM port number** at „Ports (COM & LTP)"
   5.)   Run the „**Access Port**" software downloaded from our website
   6.)   Setup the right COM port number at "**Tools / Configuration**„ menu and click „**OK**"
   7.)   Connect the serial cable's **longer lead** to the GPS tracker
   8.)   **Power ON** the GPS tracker with the ON/OFF button
   9.)   When you see the "**AT+CREG?**" text in the "AccessPort" software enter the commands below:

Click to "**Send**" button after each command!

No.	Command	Info
1st	begin123456	resets all settings to factory default
2nd	apn123456 xyz	sets the required APN for GPRS configuration[1]
3rd	apnuser123456 xyz	sets the USER NAME for GPRS configuration (optional)[1,2]
4th	apnpasswd123456 xyz	sets the PASSWORD for GPRS configuration (optional)[1,2]
5th	adminip123456 **89.134.146.57 31201**	sets our server's IP address and Port number
6th	t030s***n123456	sets the report time interval to 30 seconds[3]
7th	save123456	save all settings

1   The "xyz" depends on your mobile phone company, for more information ask your SIM supplier or check their website!
2   Do not send this messages if you don't need USER NAME and PASSWORD for the GPRS connection!
3   The report interval must NOT be less than 5s for TK102-2 and not less then 30s for model TK102
4   "123456" is the default password, if you changed you need to use your chosen one
5   Do not forget to use "spaces" in the commands!

Disconnect the tracker:

   10.) Click on the "**Serial Port Switch**" button if you finished the setup
   11.) **Remove the serial cable** from the GPS device
   12.) After you removed, the tracker **starts to send data** to our server automatically
   13.) Remove the serial cable from the PC

LIST OF ALL COMMANDS

(Some of these commands are not supported by TK102 and TK102-2.)

FUNCTION	COMMANDS	EXAMPLE
Password modification	**password+old password+space+new password**	**password123456 666888**
P.S:the password should be 6 digitals		
Authorization	**admin+password+space+cellphone number**	**admin123456 13311112222**
P.S:there are 4 other numbers can set as the masters,use the same way to set them.		
IP and Port Setting	**adminip+password+space+IP address+space+port**	**adminip123456 192.167.1.1 8899**
P.S:When you need the tracker has the way of GPRS transferring,this is the necessary setting.		
APN setting	**APN+password+space+the user's APN**	**APN123456 internet**
P.S:When you need the tracker has the way of GPRS transferring,this is the necessary setting.And APN refers to the GSM card's APN.		
APN user name setting	**Apnuser+password+space+apn's username**	**apnuser123456 come**
P.S:If the APN has user name,this is the command to setting this.		
APN password setting	**Apnpasswd+password+space+apn's password**	**apnpasswd123456 cmet**
P.S:If the APN has password,this is the command to setting this.		
Interval tracking	**t030s005n+password**	**t030s005n123456**
P.S:T=time,s=second,m=minutes,h=hour,n=times,t030s005n123456 means track 5 times for 30s interval, "***" means countless times.And the minimum interval time is 5 seconds(new vesion tracker),30 seconds(old vesion),the maximum times is 250 times.		
Tracking mode	**tracker+password**	**tracker123456**
P.S:If you need switch the other modes to tracking mode,you need send this commands.		
Track once	**tracking one / or call the tracker once**	**tracking one**
P.S:If you want to have the tracker only report once,send tracking one to the tracker,or call the tracker once.		
Listen in mode	**monitor+password**	**monitor123456**
P.S:If you need switch the other modes to listen in,you need send this commands. When you use the tracker first time,call the tracker,tracker reports you the coordinates,send monitor123456,call the tracker you will hear what happen around the tracker.		
Geofence	**stockade+password+space+longitude, latitude;longitude,latitude**	**stockade123456 22.567185,114.051248；22.555666，114.777888**
P.S:Send this sms command to the tracker,then if the tracker run out the area you have set,it will send "stockade"with the location to you.		
Movement Alert	**move+password**	**move123456**
P.S:The tracker will move 500m at least,or you cannot get this alert."move with the location"		
Overspeed Alert	**speed+password+space+080**	**speed123456 080**
P.S:The unit of the speed is km which is the orignal data from the GPS,and if the speed less then 30km/h,you won't get the alert "speed+location"		
Low battery Alert	no needing to set up	No needing to set up
P.S:When the back up battery is less than 3.7V,it will send " L".		
Initialization	begin+password	begin123456
P.S"To cancel all the settings,you need this commands,but if you forget the password,you need update the firmare.		
IMEI Checking	**imei+password**	**imei123456**
P.S:If you want to know the IMEI number of the tracker,you need this command.		
SOS	no needing to set up	No need to set up
P.S:When someone press the SOS,you will get the information of 'help me with the coordinates".		
Ignition alert	**fortify+password**	**fortify123456**
P.S:Only for the vehicle tracker,there are two wires connect the ACC(ignition),if you send "fortify123456",then anyone switch on the vehicle,it will send alert.		
Ignition Status checking	**fortified+password**	**fortified123456**
P.S:If you want to make sure that the tracker in under this function,send this commands,and tracker will reply you.		
Main power losing alert	no needing to set up	No need to set up
P.S:If the main power is losing,the tracker will send "battery".		
Time zone setting	**Time zone+password+space+GMT time**	**Time zone123456 2**
P.S:"UK time is time zone123456 1"currently.		
Individual Website setting	**Home+pasword+space+the user's webite**	**home123456 www.tracker.com**
P.S:If "tracker" wants make the returned sms has their domain name,they can set "home123456 www.tracker.com".		
Relay on/off (stop engine)	**Powercar+password+space+1 (or 0)**	**Powercar123456 1**
P.S:Only the vehicle tracker has this function,"powercar123456 1/0" 1=on,0=off		
Shake Alert(with the motion sensor)	**shake+password+space 1-10**	**shake1234656 1**
P.S:Only the new version tracker has this function,from 0-10,means from shake heavily to softly,1 means the heaviest,10 means the softest.0=off		
Read SD card	**Readsd+password+space+1**	**readsd123456 1**
P.S:Only the new version tracker has this function,where there is not GPRS connection,tracker records the information into the SD card and when there comes the GPRS connection,tracker sends all the information to the server.1=on,0=off.		
SMS report	**smslinkone+password**	**smslinkone123456**
Send report in SMS (it's working during the gprs communication too…)		
Restart tracker	**restart+password**	**restart123456**
P.S:This command is restart the tracker.		

Dear Customer,

Thank you for choosing CorvusGPS Online Tracking System. This manual shall show you how to operate the device smoothly and correctly. Please read these the manual and installiation instructions carefully before using the product. We reserve the right to change our manuals any time, without prior notice. The producer of the trackers and CorvusGPS takes no responsibility for any possible errors and deficiences found in the manual, or the damage derived from them.

CONTENT

1. Applications

This tracker is working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or GPRS.
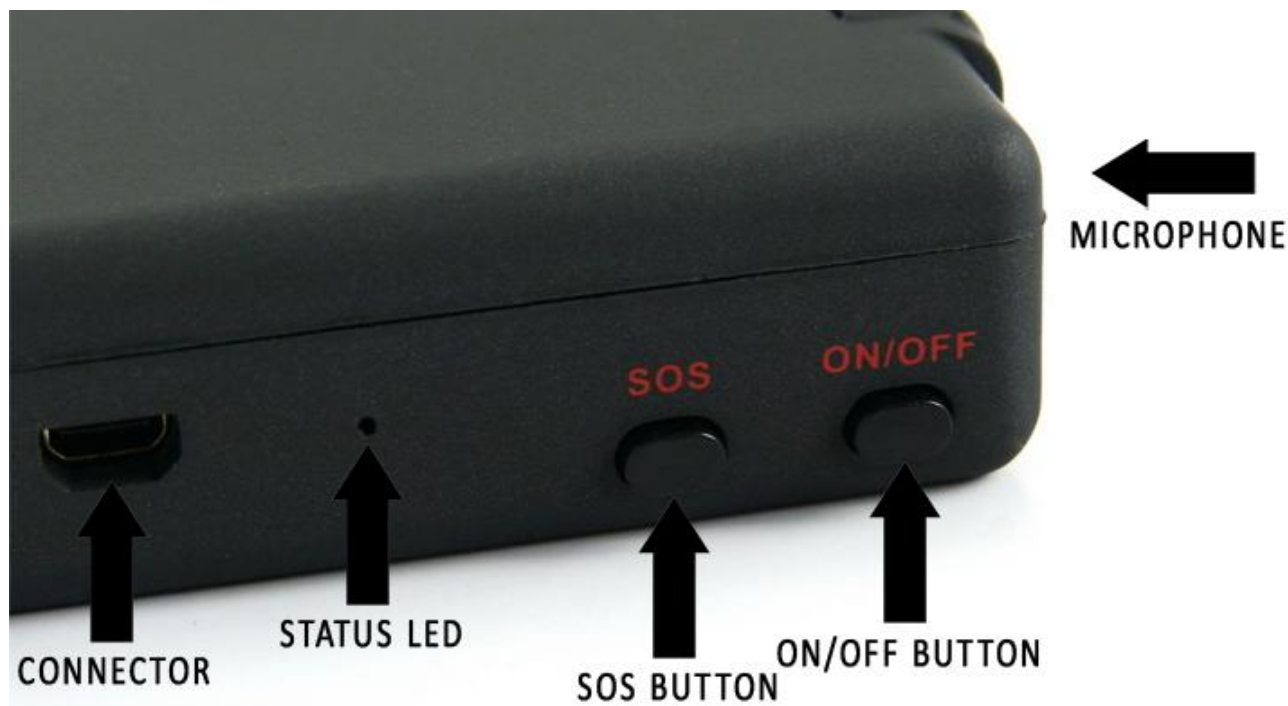
A few examples that witch way you can use the tracker:

- Rental Vehicle / Fleet management
- Protect Childs / Oldies / Pets / Businessmen
- Personnal Management
- Covert Tracking

2. Hardware descriptions

CONNECTOR: You can charge / setup the device or you can upgrade the software of the unit with useing this connection. You need a wallcharger or a car charger to charge the device and an USB data cable for the setup and software upgrade.

STATUS LED: Status LED show you information about the state of the tracker.
The LED is flashing fast when the device is searching for GSM network and GPS satelites and flashing slow when it was found it.

SOS BUTTON: Press it for 3 seconds to send emergency message.

ON/OFF BUTTON: You can turn ON/OFF the device with it. Press and hold the button, then the status LED starts to flashing fast. When the status LED stops flasing then release the button. After that the tracker starts to connect to the GSM network and GPS satelites. When want to turn OFF, you only need to press and hold this button again and release it when the status LED stops flashing.
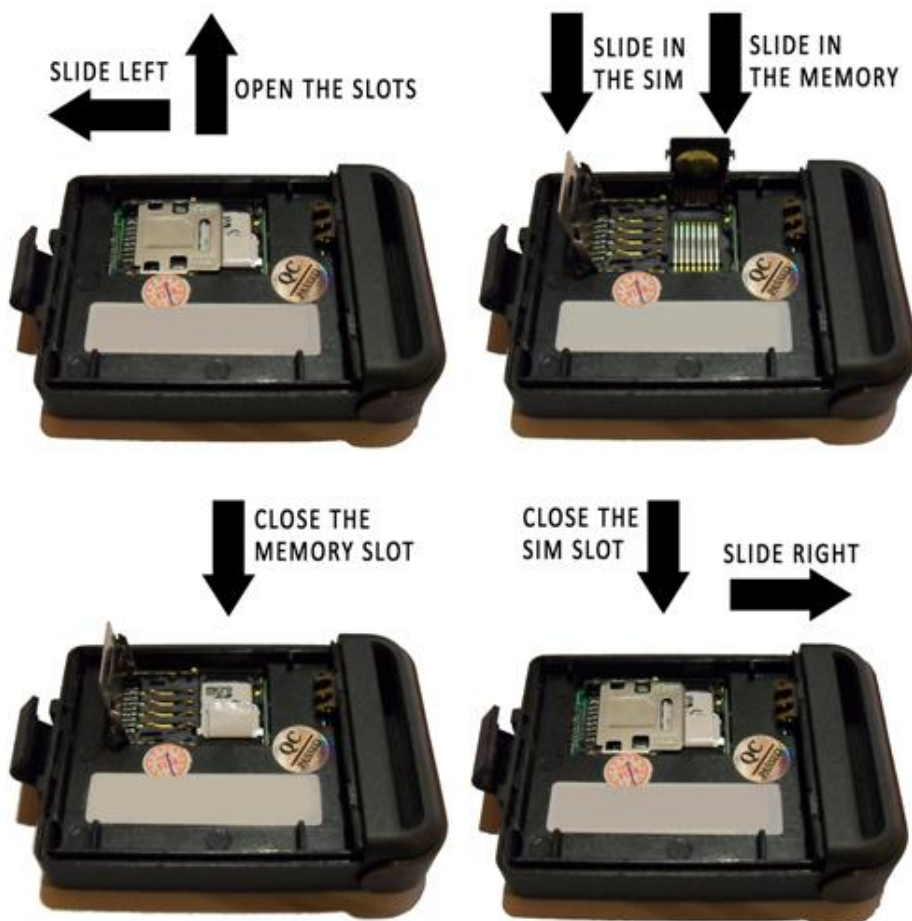
MICROPHONE: In „Monitor" mode you car hear the voices arround the tracker with this built in microphone.

3. How to use the tracker

3.1 SIM card installation

3.2 Battery and charger

For maximal capacity at first use charge the battery 8 -12 hours. 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.

3.3 Startup

- Put the SIM card and battery in place.
- The unit turns on automatically when the sim card and battery is inserted.
- For the first use, please initialize the unit and restore it to default setting.
  (please refer to 6.4 for instruction)
- 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 4 seconds when the unit has received the signals, otherwise it will keep on.
- When this unit receives GPS signals normally, you can use it and do all the following settings.

3.4 Initialization

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

*Do not write the "+" in the SMS. So the right command form is: **begin123456**.

3.5 Change the password

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

Cautions:
    a: Be sure keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.
    b: Make sure the new password is in 6 digits, or else the tracker can not recognize the password.

3.6 Position report by SMS

<u>Without authorized number setting:</u>
If there is no authorized number stored in the tracker, when any number dials up the unit, it will report real-time.

<u>With authorized number setting:</u>
When an authorized number dials up the unit, it will hang up and report real-time, but not respond when an unauthorized number calls it up.

Setup number: 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!" in SMS. There are only 5 numbers able to be authorized.

Delete number: Send SMS **noadmin**+**password**+**space**+**authorized number** to delete the authorized number.

*Roaming: For roaming purpose, you have to add your country code ahead of the cell phone number, for example, please send admin123456 008613322221111 to tracker to set 13322221111 as an authorized number.

Received geo-info as below:
Lat: 22.566901 long: 114.051258 speed: 0.00 14/08/09 06.54 F:3.85V,1,Signal:F help me imei:354776031555474 05 43.5 460 01 2533 720B

Lat: 22.566901 long: 114.051258	Coordinate
0.00	Speed
14/08/09 06.54	Date&Time
F:3.85V	Battery power
1	Charging (0 means no charging)
Signal:F	Full GPS signal (0 means weak GPS signal)
help me	SOS message, (blank for tracking message)
354776031555474	IMEI
05	Means you get 5 GPS fix (from 3 to 10)
43.5	Altitude
460	MCC (Mobile Country Code)
01	MNC (Mobile Network Code)
2533	LAC (Location area code)
720B	Cell ID

(Remark: GSM ID can be add or delect accroding to customer's requirement)

3.7 Auto track mode

You can setup the tracker to send you SMS by time interval for a few times. The interval must not be less than 5s.

An example:

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

Setup mode 1:   Send SMS **t030s005n**+**password** to the unit, it will report the Geo-info at 30s intervals for 5 times.
(**s**: second, **m**: minute, **h**: hour, the setting must be in 3 digits and at maximum 255 in value)

Setup mode 2:   Send SMS **t030s***n**+**password** to the unit, it will reply SMS heaps of times

Cancel: Send **notn**+**password** to delete the " auto track "

3.8 Voice monitoring mode (Voice Surveillance)

Send SMS **monitor**+**password**, the response from the tracker is "monitor ok". In this mode, the user can dial up the unit to hear the voice around the tracker after your call. (please refer to 6.1 for instruction).

3.9 Switch between „TRACK" and „MONITOR" mode

The default mode is "**track**".

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

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

3.10   Geo-fence setup

Set up a geo-fence for the unit to restrict its movement within a district. The unit will send message to the authorized numbers when it moves out of the district. This function will be invalid if the unit moves outside the district. You need to re-set it if you want this function again.

Setup: Send SMS **stockade**+**password**+**space**+**latitude,longitude;latitude, longitude** to the 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. It will alarm one time in each setting.

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

*Response SMS format: stockade!+geo-info to the authorized numbers. It will alarm one time in each setting.

3.11   GMT time setup

Setup: Pls use the following SMS to set up GMT time in the SMS for the tracker **time zone+password+space+ the customer's GMT TIME**.

3.12   Movement alert

This function is using for the owner to get alarm when the tracker moves out of a restricted district.

Setup: Send SMS **move**+**password** to the unit to set the movement alert, it will reply "move ok!". In case of such a movement, it will send SMS "Move" along with a Geo-info to the authorized numbers. It will alarm one time in each setting.

Cancel: Send SMS **nomove**+**password** to deactivate the movement alert.

*Remark: 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.

3.13   Overspeed alert

This function is using for the owner to control the target's speed.

Setup: 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 keep sending such an alert every 3 minutes.

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 clounds etc.
*Response SMS format: speed+080!+Geo-info (suppose the speed is 80km/h). The tracker will check the speed in 10 minutes interval and alarm if it is overspeed.

3.14   IMEI check

Send SMS **imei**+**password** to the unit to check the IMEI number of the tracker.

3.15   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.

3.16   Low battery alert

It begins to send SMS to the user every 30minutes when the the battery voltage is 3.7V. SMS format: low battery+Geo-info.

3.17   Hiden tracking number

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

Setup: Send SMS "**hide number**" to set up the hidden number.

Cancel: Send SMS "**nohide number**" to delete the hidden number.

3.18   SMS center mode

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

Setup: Send SMS **adminsms+password+space+cell phone number** to set the SMS center.

Cancel: Send SMS **noadminsms+password** to cancel the SMS center.

            *Response SMS format: authorized number+Geo-info.

3.19   GSM ID

This function can be add or delect for customization. There is GSM ID in each SMS from the tracker. The location of the tracker can be found according to the GSM ID in case of no GPS signal. GSM ID is make up of MCC(Mobile Country Code),MNC(Mobile Network Code),LAC(Location area code) and Cell ID.(refer to **6.6**)

3.20   Motion sensor

This function can be add or delect for customization and using for the user to get alarm info when someone touchs the unit.

Setup: Send shake+password+space+1-10 to the tracker to set up this function. (1-10 means the level of intensity)

Send SMS **shake**+**password**+**space**+**1** is the lightest level of intensity.the tracker will send alert if someone **touchs the unit heavily.**

Send SMS **shake**+**password**+**space**+**10** is the strongest level of intensity.the tracker will send alert if someone **touchs the unit slightly.**

Cancel: Send SMS **shake**+**password**+**space**+**0** to remove this function.

3.21   SD card function

A mini SD card can be put in the tracker's SD card slot. The GPRS data can be saved in the SD card if GPRS is off. It will send data to the GPRS server again if GPRS is on.

Setup: Send SMS **sdlog123456 1** to the tracker to activate the function of storing data in SD card;

Cancel: Send SMS **sdlog**+**password**+**0** to the tracker to deactivate the function of storing data in SD card.

3.22   Send SD card datas to the tracking server

Setup: Send SMS **readsd**+**password**+**space**+**1** to ask the tracker to send data in the SD card to the GPRS server.

Cancel: Send SMS **readsd+password+space+0** to ask the tracker to stop sending data in the SD card to the server.

3.23   GPRS settings

In order to use GPRS function, the user needs to set IP, Port and APN (access point name) by either cell phone, or our PC software.

***NOTE:** Some countries or regions should set APN's User Name and APN's Password.

Set an IP address and port

Setup: Send SMS **adminip**+**123456**+**space**+**IP address**+**space**+ **port**. If setup successful, the tracker will reply SMS "adminip ok"

Cancel: Send SMS **noadminip**+**123456**

Set APN

Setup: Send SMS **apn**+**123456**+**space**+**specify apn content**. If setup successful, the tracker will reply SMS "APN ok".

Cancel: The old APN will be invalid automatically when a new APN is set.

Set APN's user name

Setup: Send SMS **apnuser**+**123456**+**space**+**the sim card's user name**. If setup successful, the tracker will reply SMS "apnuser ok".

Cancel: The old APN user name will be invalid automatically when a new APN user name is set.

Set APN's password

Setup: Send SMS **apnpasswd**+**123456**+**space**+**the sim card's password**. If setup successful, the tracker will reply SMS "apnpassword ok".

Cancel: The old APN password will be invalid automatically when a new APN password is set.

3.24 GPRS communication protocol

As soon as the IP & Port & APN are set up, the user can make a call or send SMS to tracker. The tracker will hand up and report the coordinates to IP address.

The message format sent by tracker to IP address is as following:

Serial number + authorized number + GPRMC + GPS signal indicator + command + IMEI number + CRC16 checksum.

For example:
090907070718,13145826175,GPRMC,070718.000,A,2234.0228,N,11403.0764,E,0.00,,070909,,,A*73,F, , imei:354776030042714,05,50.1,F:4.11V,0,132,40512,460,01,2533,720B

Content	Description
090907070718	serial number(date&time)
13145826175	authorized number
GPRMC,070718.000,A,2234.0228,N,11403.0764,E,0.00,,070909,,,A*73,	GPS mode's Original GPRMC sentences
F	Full GPS signal (L= No GPS signal)
imei:354776030042714	the tracker's IMEI number
05	get 5 GPS number
50.1	Altitude
F:4.11V	Full battery power (L:3.65V=Low battery power)
0	No charging
1	charging
132	The length of the GPRS string
40512	CRC16 Checksum
460	MCC Mobile Country Code
01	MNC Mobile Network Code
2533	LAC Location area code
720B	Cell ID

(Remark: GSM ID can be add or delect according to customer;s requirement.)

Note:
- Our gprs supports TCP or UDP protocol, so please confirm whether your GPRS webserver supports TCP or UDP protocol before having the order.
- Please use a SIM card which has GPRS function.
- Pleases use the following SMS to set up YOUR website in the SMS for the tracker home+password+space+the customer's WEBSITE home+password+space+space (if there is no website in the SMS)

4. Cautions

Please comply with the instructions to extend the unit life:

- Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
- Don't use & store the unit in dusty places.
- Don't put the unit in overheated or overcooled places.
- Handle carefully. Don't vibrate or shake it violently.
- Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
- Don't paint the unit, this may cause some foreign materials left in between the parts.
- Don't disassemble or refit the unit.
- Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
- Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.

5. Specifications

Content	Specs.
Dim.	64mm x 46mm x 17mm(1.8"*2.5"*0.65")
Weight	50g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz or 900/1800/1900Mhz
GPS chip	SIRF3 chip
GSM/GPRS module	Simcom300/Simcom340
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	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	80hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

6. Faults and solutions

Faults	Solutions
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.