



Utrack GPS Tracker User Manual



UT3G100



IMG_0803.CR2

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Table of contents

Quick User Guide	3
Welcome	5
Chapter 1 Product overview.....	5
Introduction	5
Specifications.....	5
What's Included	6
TK905 diagram	6
Charging the device	6
Power On/Off	7
Indicator light status	7
SIM card installation	7
APN settings.....	8
Chapter 2 SMS tracking.....	9
SMS command list	13
Chapter 3 APP tracking.....	14
Live tracking	15
Historical route playback.....	16
Geo-fence alarm	16
Alarm notices	17
Alarm Switch	17
Settings.....	18
Chapter 4 Webpage tracking.....	19
Change password.....	20
FAQ	23

Quick User Guide

The configuration of the tracker is very simple, you just need a little patience. It works through SMS commands which the user sends the device from the own mobile phone number. It can also work through the app or web page after necessary initial SMS configuration.

1. Prepare a SIM card

The tracker works thanks to a sim card which is put inside the device. Please be assured it has got sufficient credit or a promotion, as it uses sms, calls and a little but necessary quantity of data traffic (about 100mb per month). Be assured that the sim supports the GSM, GPS, GPRS, internet 2g networks, SMS and calls. Ask your most trusted company for eventual promotions about sim cards for home alarms or security systems.

2. Disable the PIN code

Insert the sim in a smartphone to deactivate PIN, answering service and call transfer. Get from the network settings the APN information of your SIM card (address and eventual username and password).

3. Insert the SIM card

Go to an open space. Insert the sim in the tracker. This will shut on showing blue and yellow Leds.

4. Setup the admin phone number

Set the admin number (your personal cellphone number) sending SMS to the SIM in the tracker:

Command: admin123456(space)your phone number (eg. admin123456 7894561230).

Reply: admin ok

You can now send command G123456# or call the tracker to soon receive a sms containing information about latitude, longitude, date, time, tracker battery status and a google maps link which shows the tracker's actual position.

5. Setup the APN

As the device has to be connected with GPRS network before send location or alarm information to the APP or Internet, APN settings must be done before using APP tracking or webpage tracking.

Please setup APN according to this example. Information should be replaced with those of your tracker sim company

For Tesco Mobile SIM card in the UK, we got APN information below.

APN name: prepay.tesco-mobile.com

APN username: [tescowap](#)

APN password: [password](#)

Send SMS below to set APN

1. [gprs123456](#)

2. [apn123456 prepay.tesco-mobile.com](#)

3. [apnuser123456 tescowap](#) (no need to send if APN username is empty)

4. [apnpasswd123456 password](#) (no need to send if APN password is empty)

5. [check123456](#) (check the APN settings which you have done)

Now the blue and yellow leds should flash, indicating that the tracker receives gps and gprs signals correctly.

6. Install and login the mobile APP

On Android: Search "TKSTAR GPS" in the Google Play Store

On Apple iOS: Search "TKSTAR GPS" in the Apple APP Store

After download and installed the APP, input the below information for login.

Select "Log in by IMEI/ID" on the bottom of login screen

Server: www.mytkstar.net

ID: (The ID can be found on the back side of device)

Password: 123456

7. Now you can fully use the tracker easily via the mobile APP and SMS command.

Welcome

Thank you for purchasing the Utrack UT3G100 Real-time Car GPS Tracker! This user manual is designed to be a reference tool for the installation and operation of your GPS Tracker. Here you can find information about the tracker's features and functions, as well as information to aid in troubleshooting.

For access to other support information, please go to <http://www.Utrack.top/download>

To contact Utrack support, please send us email: support@Utracktek.com

Chapter 1 - Product overview

Introduction

UT3G100 is an asset tracking device designed to track car, vehicles, and other assets. With a compact body and superior receiving capabilities, UT3G100 is an inconspicuous and yet powerful tracking solution. It is based on existing GSM/GPRS network and GPS satellites, and it can locate and monitor any remote targets by SMS, APP and Internet. UT3G100 adopts the most advanced technology of GPS and AGPS dual mode positioning. With built-in magnet, UT3G100 can be installed in your car within 10 seconds. With live tracking and historical route function, user can check the live track and historical route via smartphone anywhere anytime. With

10000mAh Battery capacity, UT3G100 can work for over 60 days at most after full charge. You will enjoy a peace of mind with knowing exactly where your vehicle is.

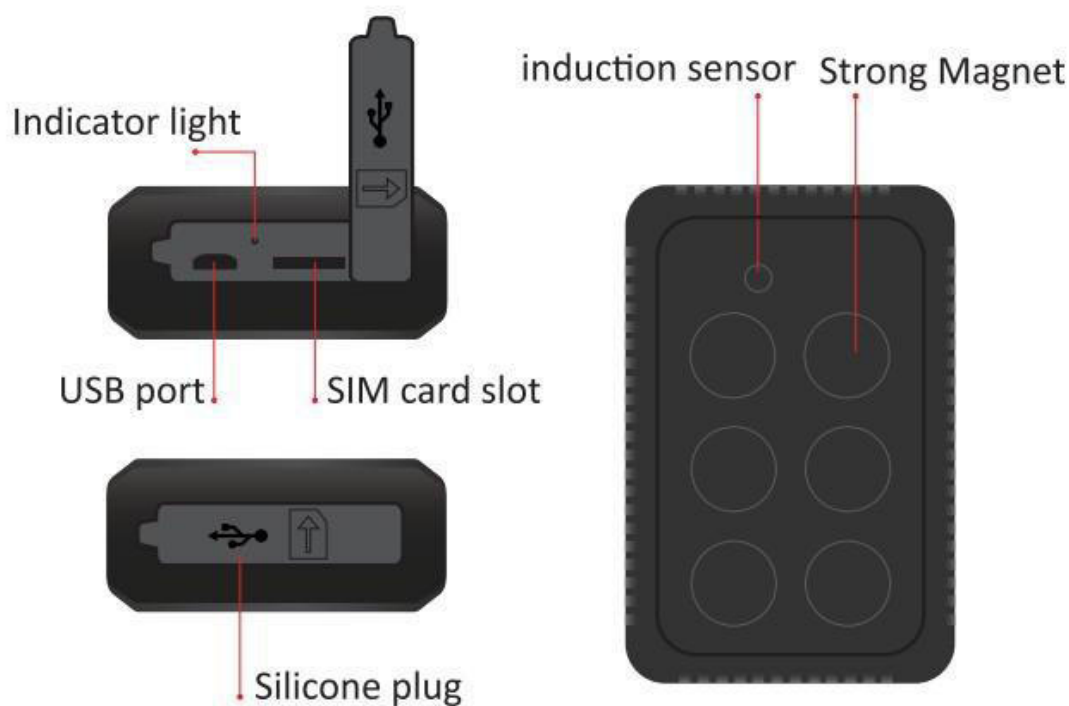
Specifications

Item Size	112mm x 78mm x 28mm (4.4 x 3.1 x 1.1inch)
Weight	305g
Network	GSM/GPRS
GSM Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS accuracy	20-30m
Charger	110-220V input 5V-1A output
Battery	3.7V 10000mAh Li-ion battery
Time of GPS signal acquisition	Cold status 45s Warm status 35s Hot status 1s
Working Temperature	-20C° to +5C°
Working Humidity	5% - 95% without condensation

What's Included

Item list	Accessories	Quantity(piece)
1	GPS tracker	1
2	User Manual	1
3	USB cable	1
4	Waterproof case	1
5	SIM card needle	1

UT3G100 Diagram



Charging the Device

To charge the UT3G100, lift the flap covering the charging post, then plug one end of the USB cable into the unit via the micro USB port and plug the other end into a 5V charger, then plug the charger into a wall outlet. Full charge for UT3G100 usually takes 10 to 12 hours. The indicator light stays red when charging and turn off after fully charged.

Note: We don't supply the 5V power adapter, user can use cell phone's adapter.

Power On/Off

UT3G100 does not have power button. Insert the SIM card to turn the device on, and take out the SIM card to turn it off.

Indicator light status

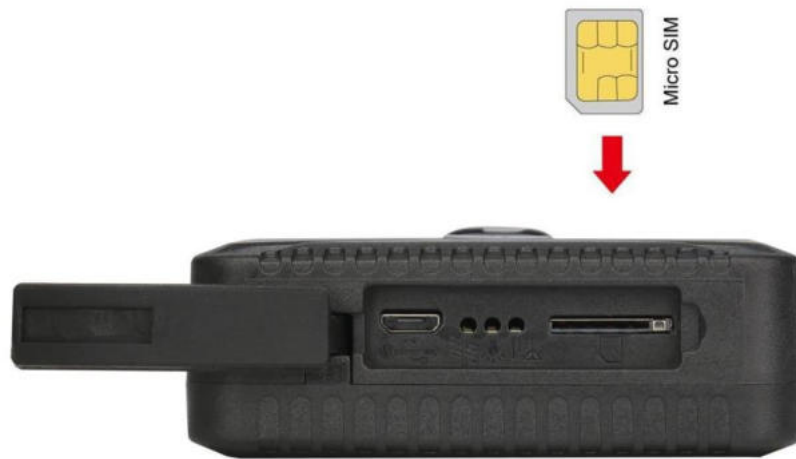
Indicator status	Device status
Yellow light - Solid	No GPRS signal
Yellow light - Flashing	GPRS connected
Blue light - Solid	No GPS signal
Blue light - Flashing	GPS connected
Red Light - Solid	Charging
Red Light - off	Finish charging

SIM card installation

Only GSM SIM card works in this device, and only **Micro SIM** card in below can work with the device. Please install the SIM card into a cell phone to disable the PIN code, the answering machine and the call transfer, then put the SIM card back into the tracker. Please also make sure the GSM-SIM card is able to receive and send calls and SMS.



Open the rubber cover, insert the SIM card into the slot by following the photo in below,



APN Settings

As UT3G100 has to be connected with GPRS network before sending location or alarm information to the APP or

Internet, APN settings must be done before using APP tracking or webpage tracking.

For APN information, you can check the webpage of your SIM card or contact the SIM card provider to find them out. Or you can also check the URL below to find out your APN information,

Please send the SMS command in below to setup APN correctly,

Command function	Command	Reply
Turn on GPRS	gprs123456	GPRS OK
Setup APN name	apn123456(space)APN name	apn ok
Setup APN username	apnuser123456(space)APN username	apnuser ok
Setup APN password	apnpasswd123456(space)APN password	apnpasswd ok
Check the APN settings	check123456	APN, IP,GPS and GSM data

Note: If the APN username and password is empty, then don't have to send SMS command to setup APN username and password.

Example:

For Tesco Mobile SIM card in the UK, we got APN information below.

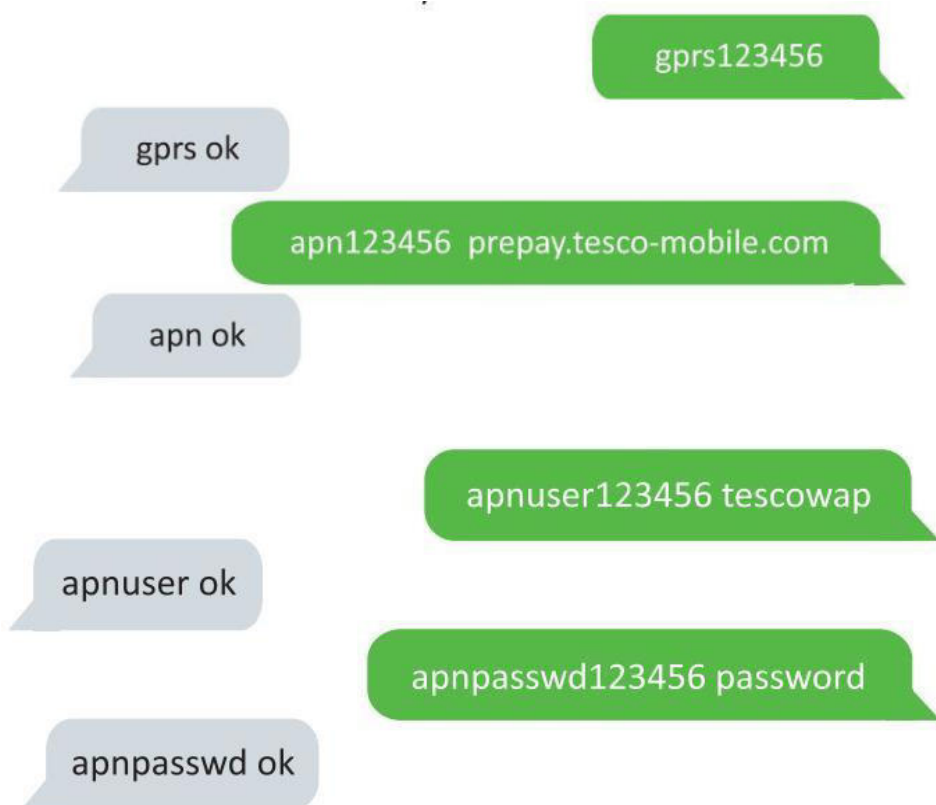
APN name: prepay.tesco-mobile.com

APN username: tescowap

APN password: password

Send SMS in below setup **APN**,

1. [gprs123456](#)
2. [apn123456 prepay.tesco-mobile.com](#)
3. [apnuser123456 tescowap](#) (no need to send if APN username is empty)
4. [apnpasswd123456 password](#) (no need to send if APN password is empty)
5. [check123456](#)



Warnings:

1. Only GSM SIM card with voice call, SMS and GPRS data plan works with the device, please make sure the GSM SIM card supports calling, sending SMS message and GPRS network.
2. Please install the SIM card into a cell phone to disable the PIN code, the answering machine and the call alert, then put the SIM card back into the tracker. Please also make sure the GSM card has opened the call shows and turned off the call transfer.
3. Please make sure GSM SIM card has got sufficient credit.
4. GPS tracking can only work outdoor. As this device depends on the GPS network, GSM (GPRS) network system, GIS (geographic information) system, computer system and etc, it must work with good network flow, due to network failure or other forces causes any losses and service disruption, we will not undertake any responsibilities for this.
5. Keep the product away from fire, high temperature or other extreme environments.
6. Don't disassemble or modify the product, to avoid damage to the product.
7. If the product is damaged resulting in a breach of the warnings above, we will not bear any legal responsibilities.

Chapter 2 - SMS tracking

2.1. Live tracking

Call the tracker or send the message "[G123456#](#)" to GPS tracker, you will receive a Google Maps link of

position.

E.g.:



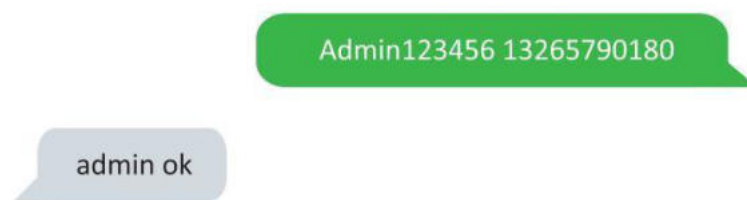
2.2. Admin phone number setting

After admin number is setup, all SMS operations to the device are under this phone number only.

Command: `admin123456 phone number` (Note: this phone number is your own mobile phone number, not the SIM card number inside the GPS tracker)

Reply: `admin ok`

E.g.: `admin123456 13265790180`



When the GPS tracker is in over-speed alarm, vibration sensor alarm, or low battery alarm, it will send alert to the admin number. (13265790180)

Delete admin number:

Command: `noadmin123456`

Reply: `noadmin ok`

2.3 Setup speed alarm

Command: `speed123456 070` (suppose speed is 70Km/h)

Reply: `speed ok`

When the device goes over 70Km/h, it will send a "speed alarm! SMS to the admin phone number.

To deactivate speed alarm:

Command: `nospeed123456`

Reply: `speed ok`

2.4. Setup GPS location uploading interval

The default setting for the GPS location uploading interval is 1 minute. If you want to change it to 3 minutes (180 seconds), you can send SMS command:

Command: `upload123456 180`

Message Reply: `upload ok`

2.5. Vibration alarm setting

Command: [shock123456](#)

Message Reply: [shock ok](#)

E.g.:

Note: The sensor goes on only if the tracker is kept stationary for 5 minutes. The tracker will send a “sensor alarm!” sms to the admin number when this device get shocked.

Deactivate vibration alarm:

Command: [nosshock123456](#)

Reply: [nosshock ok](#)

2.6. Switch to voice monitoring mode

Send SMS command below to enter to voice monitoring mode.

Command: [monitor123456](#)

Message Reply: [monitor ok](#)

After setup, call the device to listen to the environment around it.

Then send SMS command below to get back to tracking mode,

Command: [tracker123456](#)

Message Reply: [tracker ok](#)

2.7. Sleep mode: two different settings

Sleep mode includes sleep awoken by command mode and sleep awoken by shock mode.

2.7.1. Sleep awoken by command mode

In sleep awoken by command mode, the tracker works for only 5 minutes after being woken up, then goes back to sleep mode (GPS is shut off, GSM works in low consumption mode). Sending SMS command or calling the tracker can wake up the tracker again.

Sleep awoken by time mode setting:

Command: [sleep123456 time](#)

Reply: [sleep time ok](#)

2.7.2 Sleep awoken by shock mode

The default working mode for the device is “Sleep awoken by shock mode”, which can help user to save battery. The tracker will switch to sleep mode if there is no movement detected. Any movement of the device will wake up the tracker again.

Sleep awoken by shock mode setting:

Command: [sleep123456 shock](#)

Reply: [sleep shock ok](#)

2.7.3. Turn off sleep mode

Turn off sleep mode: Command

: [sleep123456 off](#) Reply:

[sleep off ok](#)

2.8 Time zone settings

The default factory setting for time zone is GMT 0, if it need to be changed to local time zone, send SMS command below. Command:

[timezone123456 local time zone](#) Reply: [time ok!](#)

E.g: [timezone123456 +1](#) [timezone123456 -1](#) [Timezone123456 0](#)

2.9 Reset Hardware

Command: [begin123456](#)

Reply: [begin ok](#)

Explanation of parameters/codes in SMS message



lat:22.63952
lon:114.17122
Spd:002
T:24/09/15 16:00
bat:100%
ID:2015070203
<http://maps.google.com/maps?q=+22.63952,+114.17122>

Pic (1)



lac:27a4 1223
T:24/09/15 15:17
bat:100%
ID:2015070203
Last:T:25/09/15 03:04
<http://maps.google.com/maps?q=+22.63949,+114.17188>

Pic (2)

Pic 1: Replied real-time tracking information under GPS satellites signal.

Lat:22.63952 lon:114.17122

Positioning of the latitude and longitude values.

Spd: 002:

This refers to the device moving speed. The device is km/h.

T:24/09/15 16:00

Real-tracking time, the Default is London time. You can set language and time zone in APP.

Bat:100%:

The battery value is between 10% and 100%. Once it is less than 30%, it will send a low battery alarm.

2015070203

Device IMEI No. to log in APP and platform.

Google Link

This is the link to the Google map showing the position of the device.

Pic 2: Replied LBS tracking information without GPS satellites signal.

Lac:27a4 1223

Real-time LBS positioning data.

T:24/09/15 15:17

LBS positioning time.

Bat:100%

The battery value is between 10% and 100%. Once it is less than 30%, it will send low battery alarm.

Last:T:25/09/15 03:04

This is the time when tracker got last GPS signal

Google Link

This is the position of last appeared GPS signal.

SMS command list

Command name	Command format	Example	Reply SMS
Inquiry GPS location	G123456#	G123456#	A Google map link
Setup admin phone number	admin123456(space)phone number	Admin123456 1353456789	
Cancel admin phone number	noadmin123456	noadmin123456	Noadmin ok
Setup time zone	timezone123456(space)GMT No.	timezone123456 -4	time ok
Switch to voice monitoring mode (After setup, you can call the device for voice monitoring)	monitor123456	monitor123456	monitor ok
Switch back to tracking mode	tracker123456	tracker123456	tracker ok
Sleep awakened by shock mode ON	sleep123456(space)shock	sleep123456 shock	sleep shock ok
Sleep awakened by command mode ON	sleep123456(space)time	sleep123456 time	sleep time ok
Sleep mode OFF	sleep123456(space)off	sleep123456 off	sleep off ok
Low battery alarm ON	lobatsms123456(space)on	lowbatsms123456 on	lowbat sms ok
Low battery alarm OFF	lowbatsms123456(space)off	lowbatsms123456 off	lowbat sms ok
Setup IP address	adminip123456(space)ip(space)port	adminip123456 47.88.85.196 7700	adminip ok
Setup GPS upload interval	upload123456(space)15	upload123456 15	upload ok
Setup over-speed alarm	speed123456(space)080(km/h)	speed123456 080	speed ok
Cancel over-speed alarm	nospeed123456	nospeed123456	nospeed ok
Vibration alarm ON	shock123456	shock123456	shock ok
Vibration alarm OFF	noshock123456	noshock123456	noshock ok
Turn on GPRS	gprs123456	gprs123456	GPRS OK
Setup APN name	apn123456(space)APN name	apn123456 prepay.tesco-mobile.com	apn ok

Setup APN username	apnuser123456(space)APN username	apnuser123456 tescowap	apnuser ok
Setup APN password	apnpasswd123456(space)AP N password	apnpasswd123456 password	apnpasswd ok
Check APN settings	Check123456	Check123456	APN, IP,GPS and GSM data
Reset the admin and other settings (Except APN settings)	begin123456	begin123456	begin ok
Reset to factory settings (Includes APN settings)	reset123456	Reset123456	Reset ok

Chapter 3 - Mobile APP tracking

Step 1: Download and install the for Android/iOS

On Android:

Search “TKSTAR GPS” in the Google Play Store

On Apple iOS:

Search “TKSTAR GPS” in the Apple APP Store

Or you can Scan the QR Code below to install the applications on your cell phone.



Step 2. Log in the app

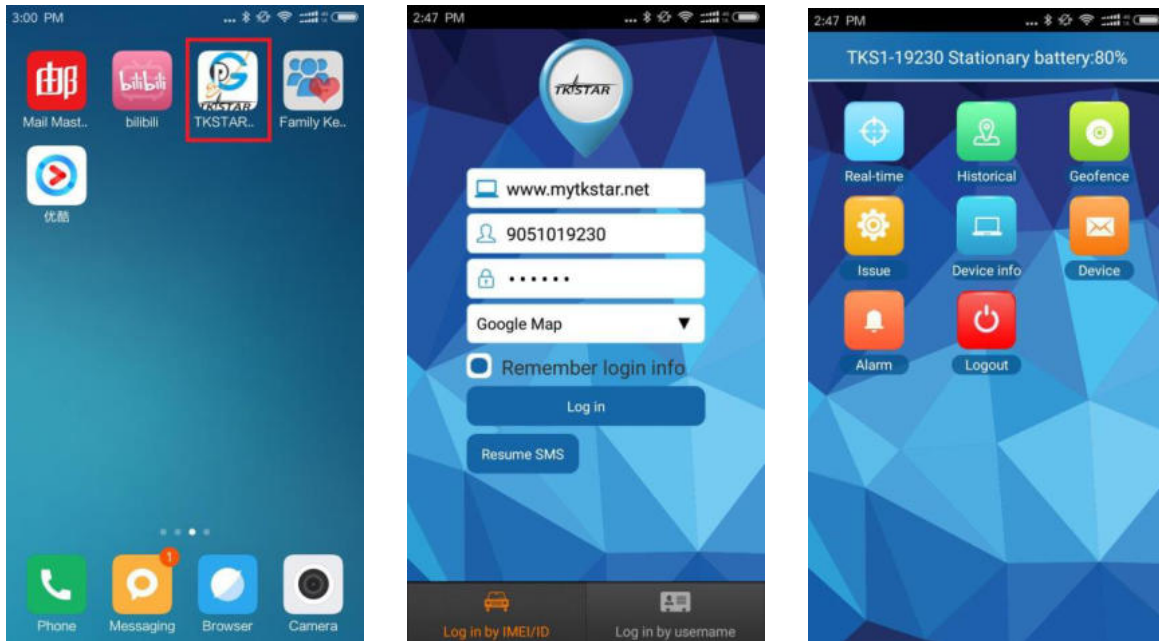
After download and installed the APP, input the below information for login,

Select “Log in by IMEI/ID” on the bottom of login screen

Server: www.mytkstar.net

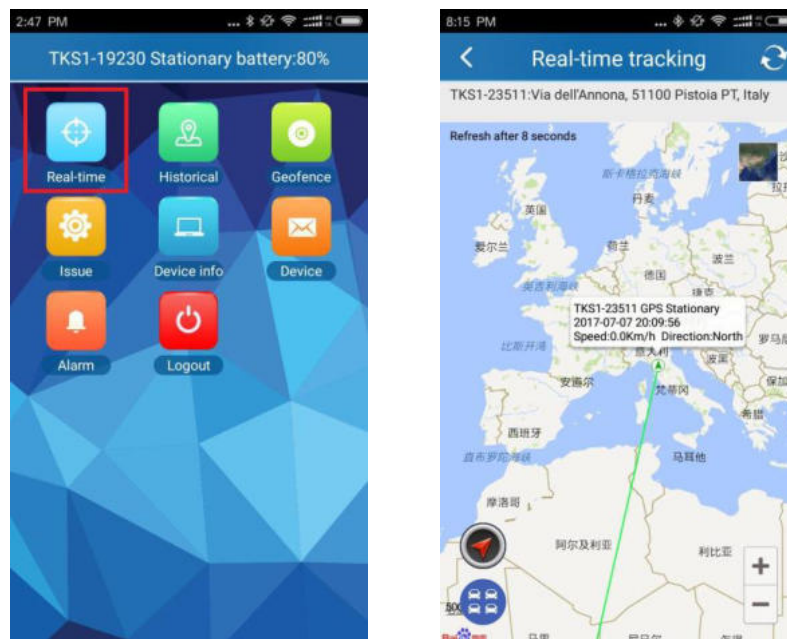
ID: can be found on the back side of device

Password: 123456



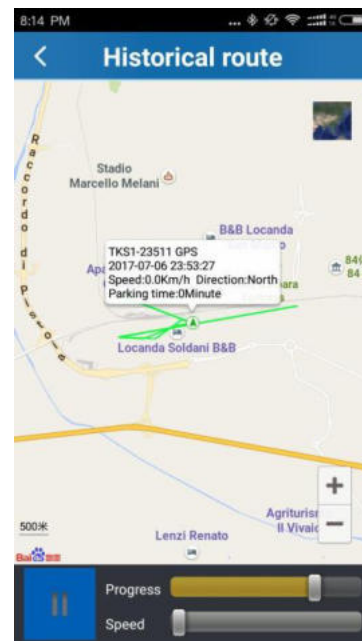
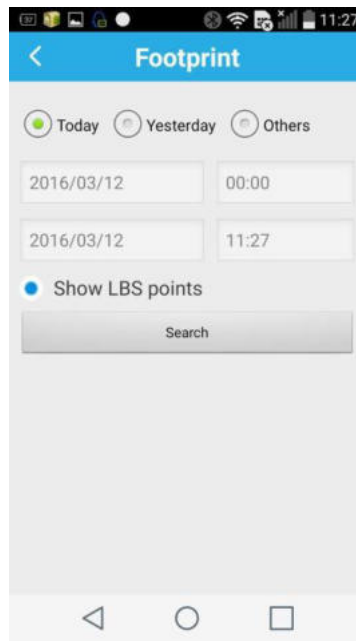
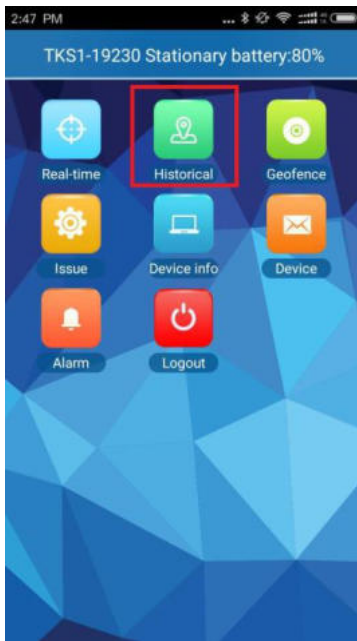
3.1 Live tracking

Live tracking can not only track the position of the device, but also can track the position of smart phone, user can click “+” and “-” to zoom in and zoom out the map.



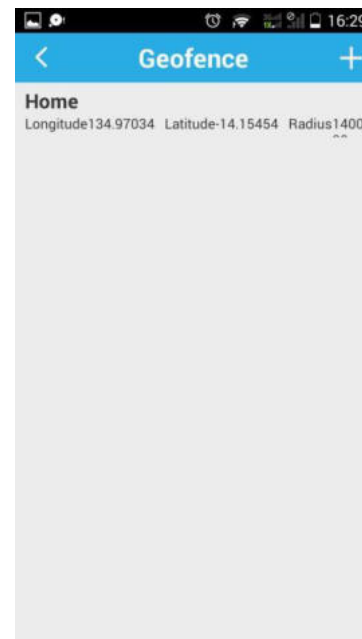
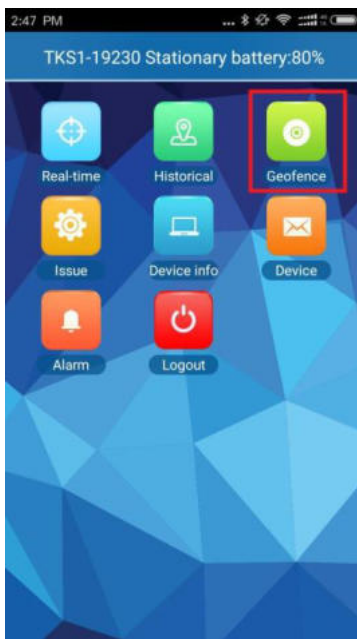
3.2 Historical route

Nearly three months' historical route could be checked in historical path. Choose the day you want to check, then playback the route of that day.



3.3 Geo-fence alarm

Click on the upper right corner “+” under the main menu for setup Geo-fence. Then the device will lock device’s present position as center automatically, then adjust the radius distance by “+” “-” on map (default radius is 100 meters, recommended radius is 500 meters). Save the settings by clicking “Save”. The device will send alarm notice when the device is entering or leaving the circle.



3.4 Alarm notices

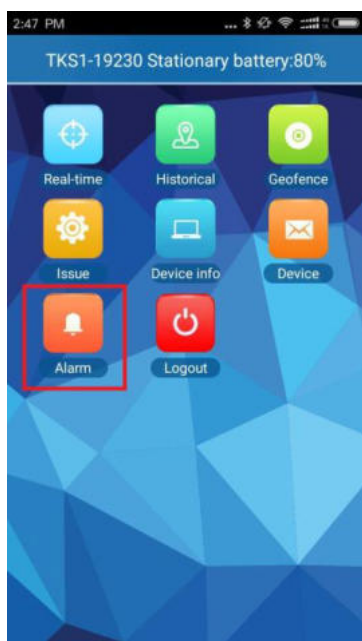
All received messages can be found in “Message”, such as offline alarm, low power alarm, Geo-fence alarm and etc.

Note: If you cannot receive alarm notice (Such as Geofence alarm), you need to check if APP is running in background first, then check if your cellphone allow the APP to show these alarm notifications.

3.4 Alarm switch

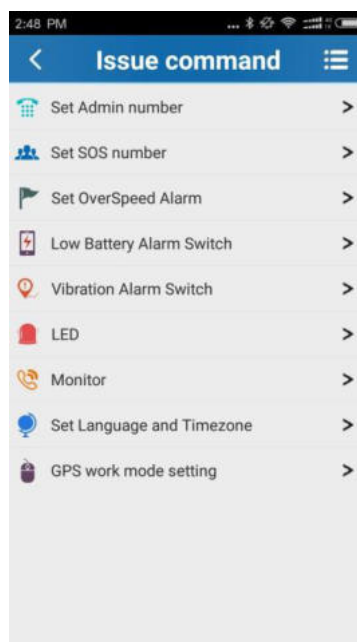
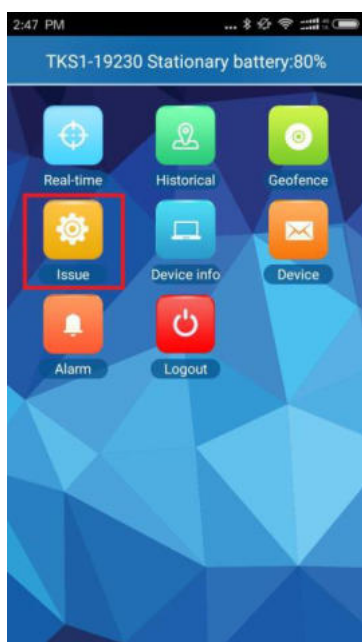
The tracker support Vibration alarm, low power alarm, offline alarm, enter the area alarm(Geo-fence), leave the area alarm(Geo-fence) and expired alarm. User can switch on and off, the alarm method can also can be chosen.

Note: SOS alarm is not for the Car GPS tracker UT3G100. But if you input a different phone number here, this phone number will also receive alarm SMS.



3.5 Settings on the APP

Setting for car GPS tracker includes set admin number, set overspeed alarm, low battery alarm switch, vibration alarm switch, monitor, set language and time zone and GPS working mode setting. Other settings are not for the car GPS tracker.



3.5.1 Setup admin number

Click “admin number” and input the admin phone number. The device will send the alarm information to this phone number. The alarm information includes lower power alarm, Geo-fence alarm, vibration alarm and other alarm notice.

3.5.2 Setup over-speed alarm

You can input a number like “70” , then when the device goes over 70Km/h, it will send a “speed alarm!”.

3.5.3 Setup Low battery alarm switch

The tracker will send low battery alarm when the battery is lower than 10%, which will remind you to charge it for continuous usage.

3.5.4 Monitor (Setup voice monitoring number)

The voice monitoring phone number can call the device and then listen-in to check the voice background of the device.

3.5.5 Setup language and time zone

The user must setup the languages for alarm notice and the time zone at the same time. Only digit number can be input in time zone, and language means the language of the alarm notice you received, it supports English and Chinese.

3.5.6 Setup GPS working mode

The device can setup GPS data uploading interval in working mode settings, which it is related to the battery standby time.

1. Tracking every 30 seconds: Fast positioning mode.
2. Tracking every 1 hour: Standard positioning.
3. Tracking every 12 hour: Power saving mode.

Chapter 4 - Webpage and online tracking

4. 1. Online tracking portal

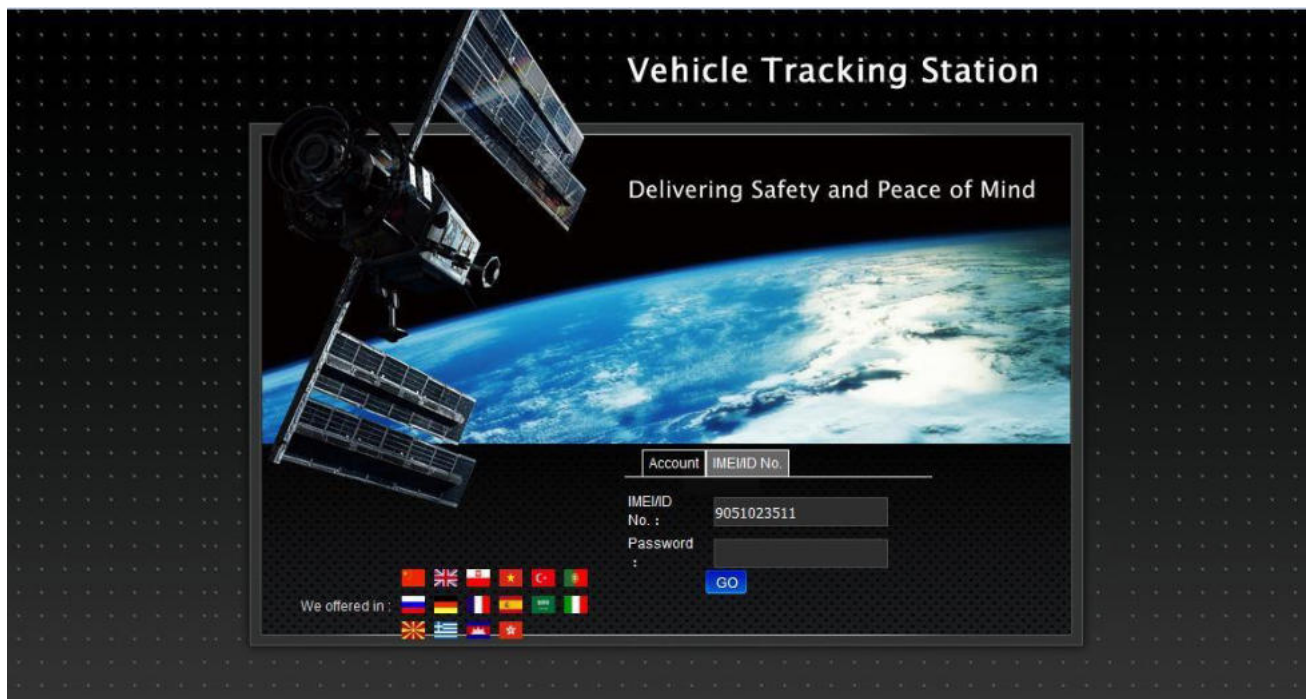
Below is the portal that allows you to track your GPS tracker,
www.mytkstar.net

4.2 Login the device

Then select “Log in by IMEI/ID” on the bottom of screen, choose the language you prefer, then input the information in below,

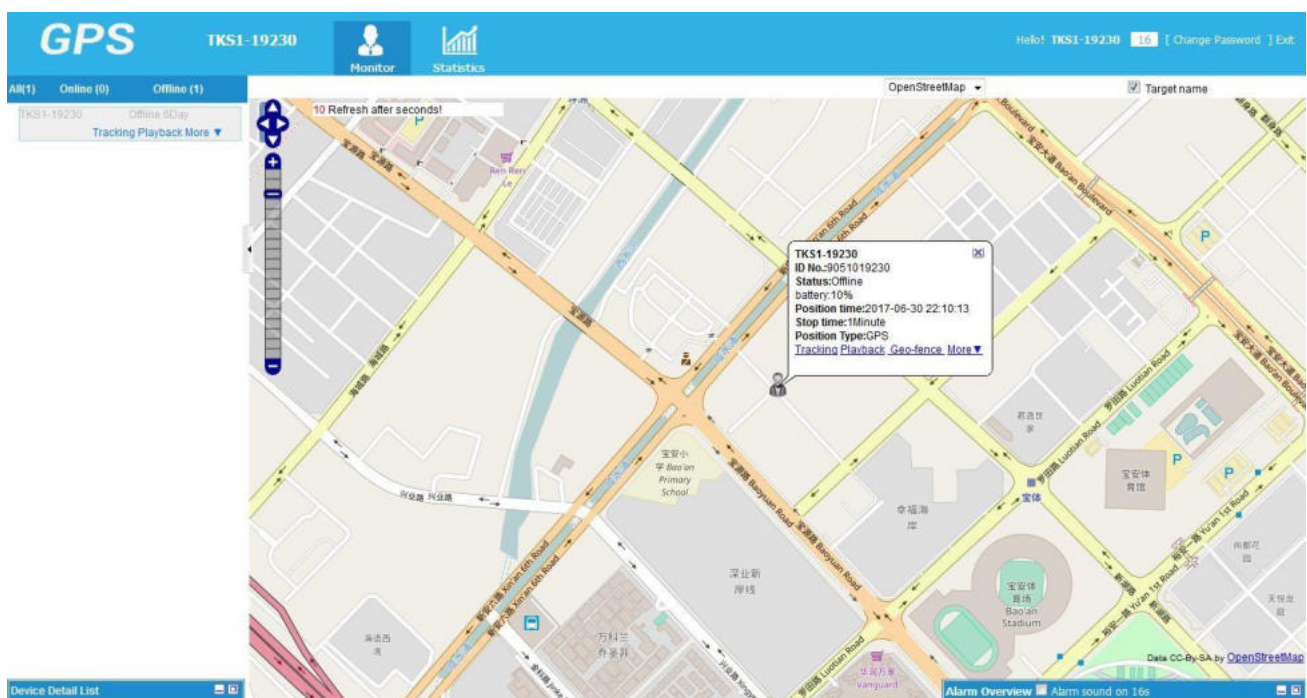
ID No.: (it can be found on the back side of the cover)

Password: 123456

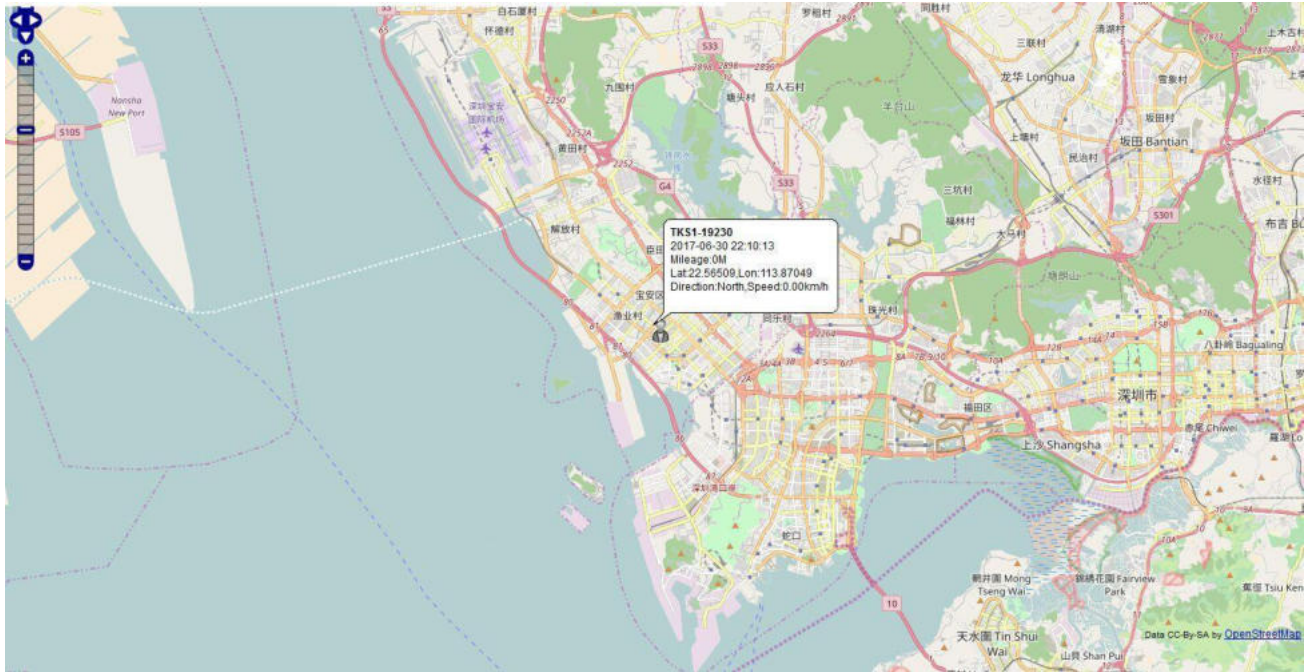


4.3 Live tracking

After logged in, you will see the interface below.



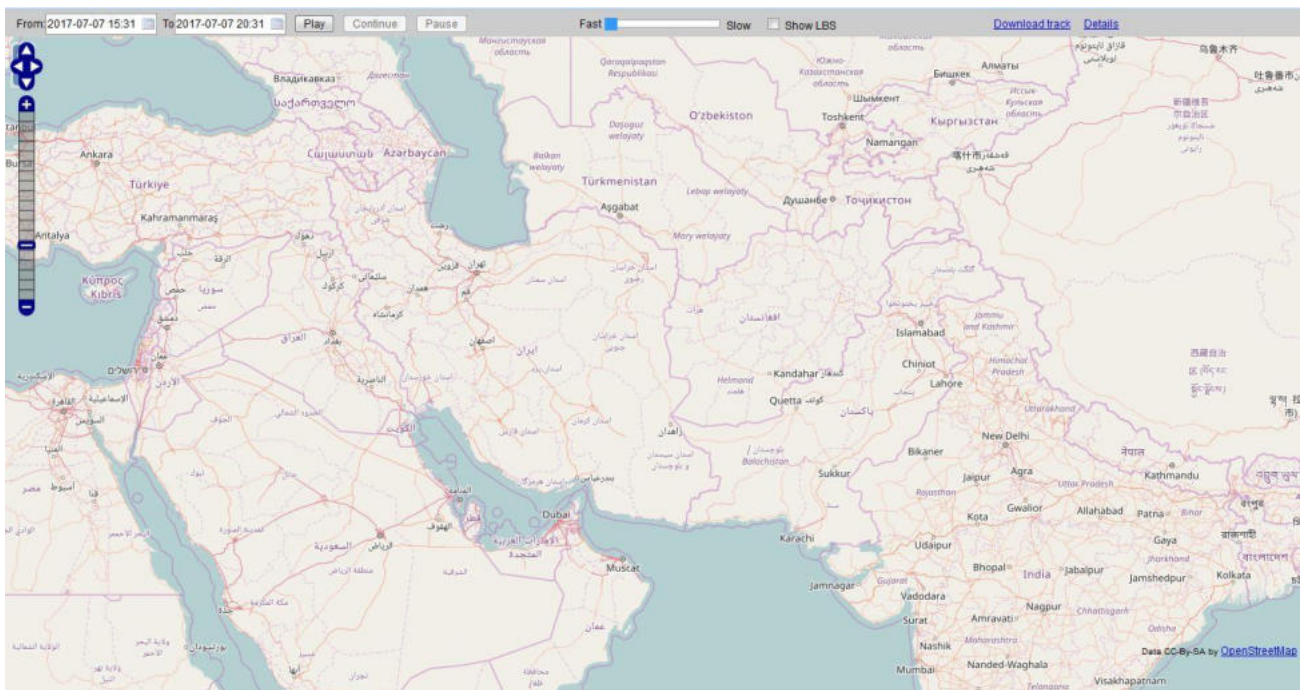
Click “tracking” to enter live tracking.

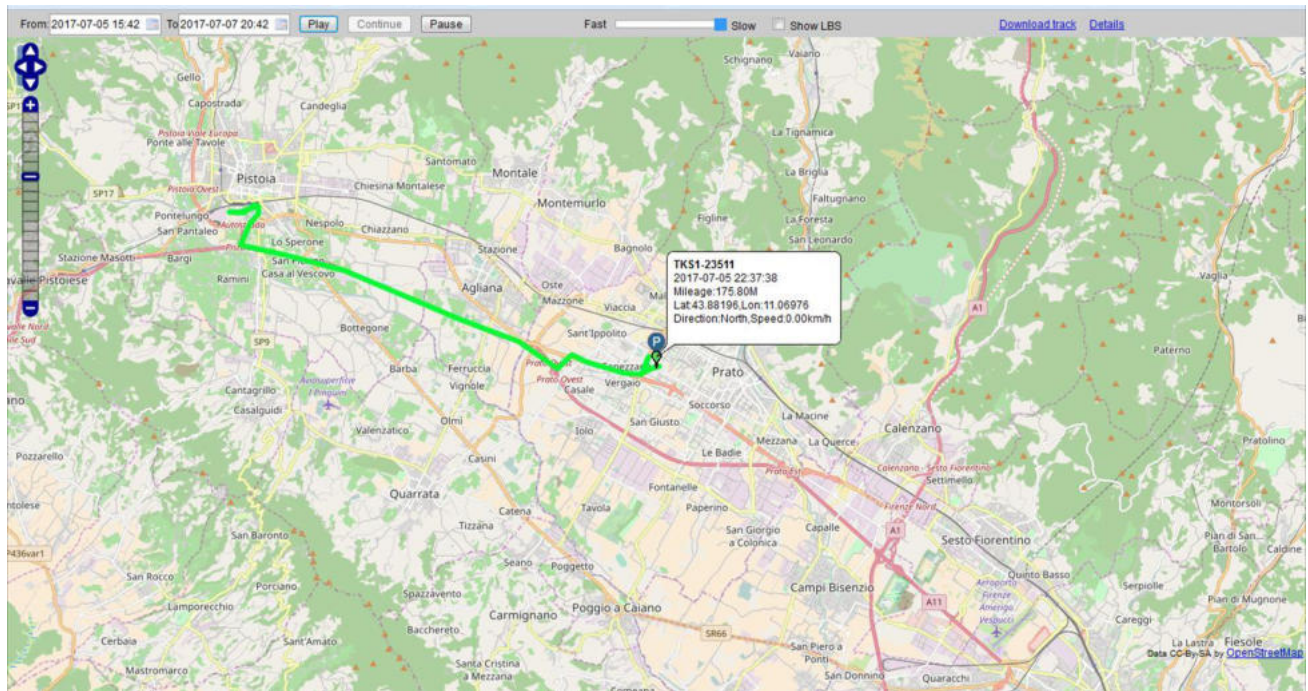


4.4 Historical route

Click “playback” to enter the historical route playback, you can choose a start date and end date to playback the route.

You can also download a file containing all the information of the playback. After you choose the start date and the end date, just click on “Download track” to download a file in .xml format.



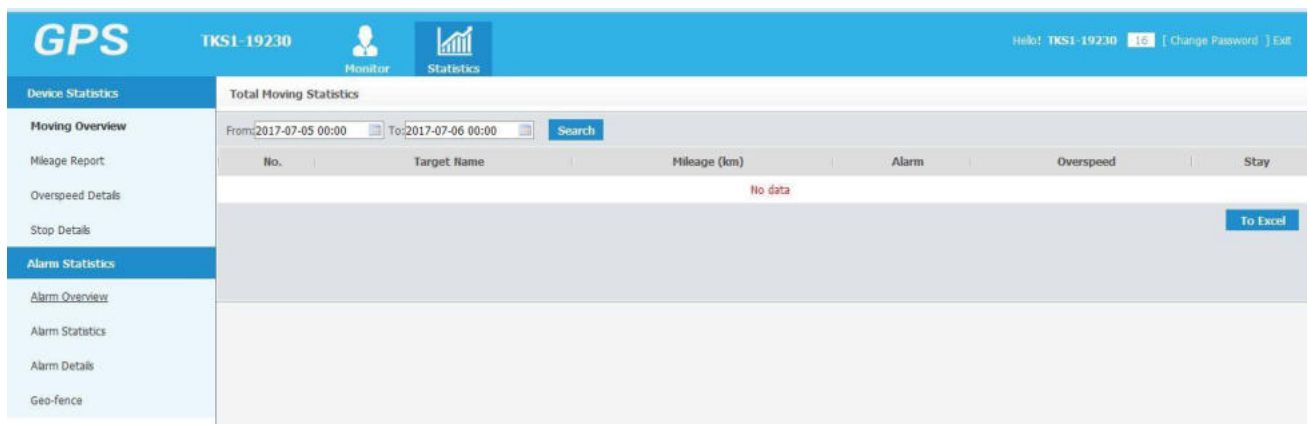


4.5 Geo-fence

Click Geo-fence can setup Geo-fence.

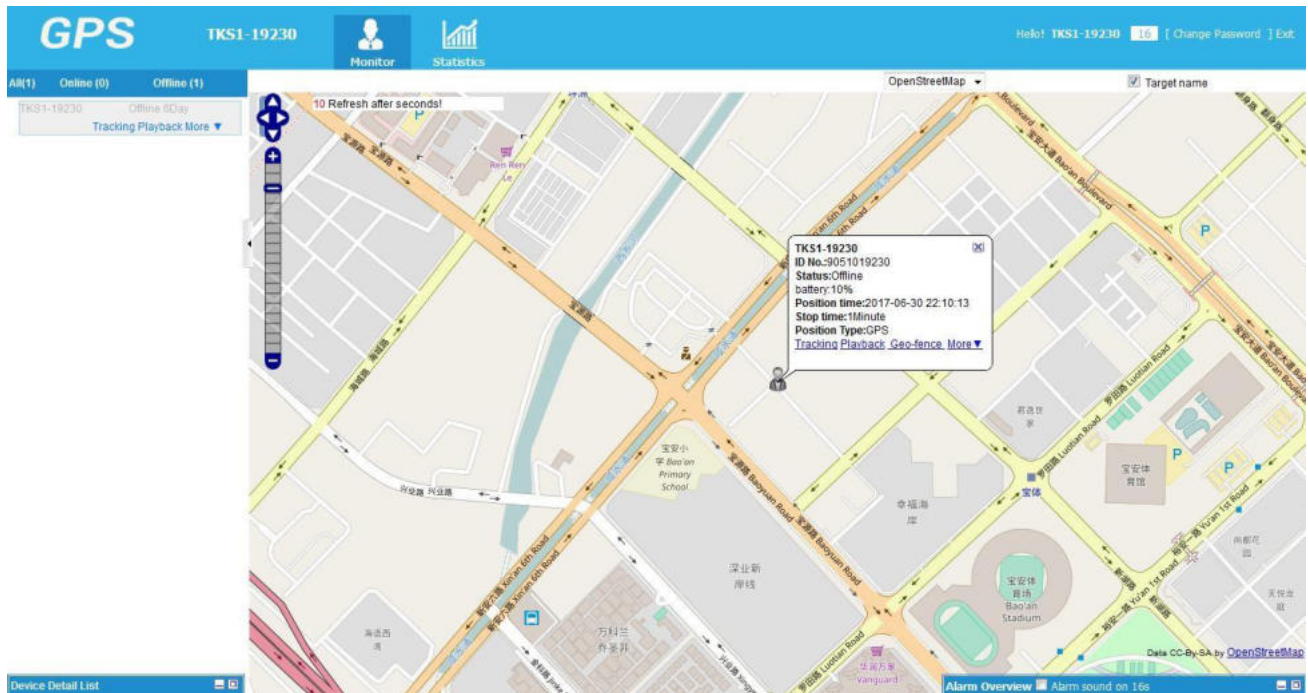
4.5 Statistics

Click statistics to check the statistics of movement distance, overspeed, alarm notice and etc.



4.6 Change password

Click the “Change password” at the right top corner to change the password for both the webpage login and APP login.



FAQs

Q: Fail to turn on the device

A: Please check if battery is charged. if so, charge the device for several hours.

Q: No reply to SMS command

- A:**
1. Only GSM SIM card with voice call, SMS and GPRS data plan works with the device, please make sure the GSM SIM card supports these functions
 2. Please install the SIM card into a cell phone to disable the PIN code, the answering machine, the call transfer and etc. then put the SIM card back into the tracker in the right direction.
 3. Please make sure GSM SIM card has got sufficient credit.

Q: Why is my device not getting GPS signal?

A: When the GPS tracker is experiencing interference, the GPS light (blue) will become solid. This means that no wireless signal is available and the device is actively searching for a new signal. Please bear in mind that many major cities have GPS dead zones, and GPS signal may not reach underground. A more open outdoor space is recommended to make sure the device can receive the GPS signal normally.

Q: SMS command works OK, indicator shows solid yellow light and APP shows “device not enabled”

A: The APN may not be setup or not correctly setup. Check APN settings and eventually set it up again. Check the link below to find out the correct APN information for your SIM card,
http://wiki.apnchanger.org/United_Kingdom

After setup the APN correctly, if the app still shows “Device not enabled”, please take out the SIM card for 10 seconds and then insert the SIM card again, then login and check the APP.

Q: SMS command works OK and APP shows “Offline”

A: This case is normal. The device will enter into sleep mode if there is no motion detected for 5 minutes. Call

the device or send the command G123456# and it will be 100% operative again.

Q: Can't receive alarm notifications on the APP

A: 1. APP have to be running in background on Android system. No need for background on iOS.

2. Check the settings of your cellphone and make sure the cellphone allows the APP to send notifications.

Q: Can I keep the tracker constantly under charge through the car electrical system?

A: Yes, you can use it for temporary use, but it is not recommended as the device would highly be worn out.

Q: In sleep mode, will the device keep the GPS and its functions on?

A: No. Call the device or send the command G123456# and it will be 100% operative again.

Q: Can I receive alarm SMS on two different phones?

A: Yes, you can add a second phone number as SOS number on the APP to receive alarm SMS.

Q: Position is different from the actual position.

A: No uploading position time or no GPS signal. Call the device to receive the position message. If it shows like Pic 2, it means no GPS signal. The position is the last GPS positioning location, not the real-time position; If it shows like Pic 1, it means the device doesn't reach the uploading time. (If GPS uploading time interval is 1 hour, it will send GPS position once one hour)



lat:22.63952
lon:114.17122
Spd:002
T:24/09/15 16:00
bat:100%
ID:2015070203
[http://maps.google.com/maps?
q=+22.63952,+114.17122](http://maps.google.com/maps?q=+22.63952,+114.17122)

Pic (1)



lac:27a4 1223
T:24/09/15 15:17
bat:100%
ID:2015070203
Last:T:25/09/15 03:04
[http://maps.google.com/maps?
q=+22.63949,+114.17188](http://maps.google.com/maps?q=+22.63949,+114.17188)

Pic (2)