



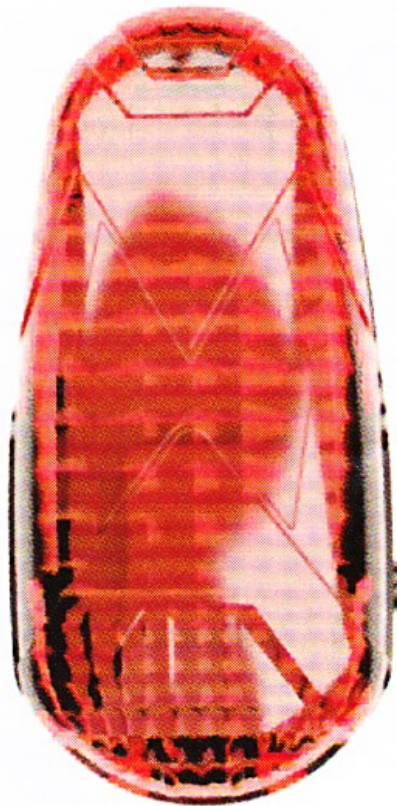
GSM/GPRS GPS TRACKER

- Simple to use, compact sized GPS Tracker.
- Track bicycle/motorcycle/ cycling.
- Also for tracking children/ the elderly / vehicles.
- APP and Android Real time Tracking.



TK-STAR BIKE GPS TRACKER

USER MANUAL



PREFACE

Thank you for purchasing TKSTAR GPS tracker. This manual shows how to operate the device smoothly in details, please make sure to read this manual carefully before using the device. Please be noted that any update of the manual is made without prior notice. Each time the update of the manual will be released in the latest product sales. The manufacturer won't assume any legal responsibility for any errors or omissions made in this manual.

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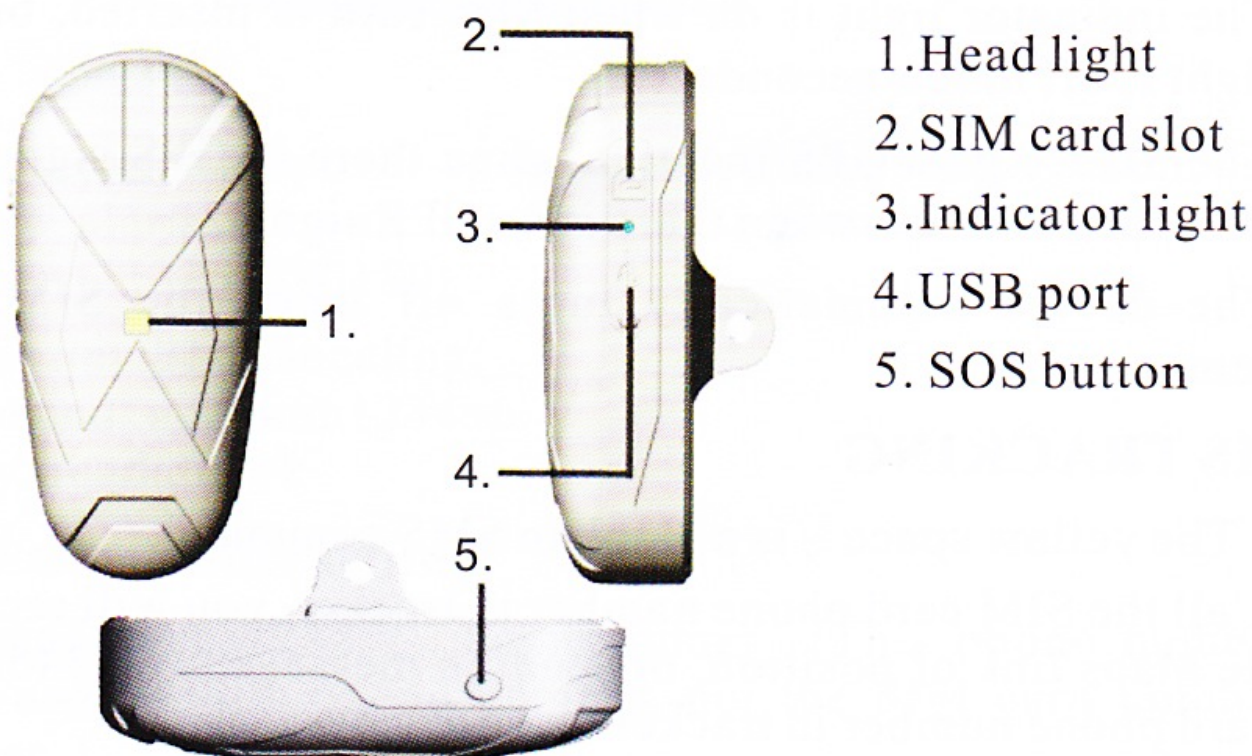
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1.SUMMARY

Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any movable equipment by SMS, APP and Internet. It has the newest advanced technology of GPS and AGPS dual positioning.

Content	Specs.
Dim.	40mm x 85mm x 28mm(1.5"*3.3"*0.7")
Weight	80g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS accuracy	5m
Wall charger	110—220V input 5V-1A output
Battery	Chargeable changeable 3.7V 1800mAh Li-ion battery
Stand by	25days
Time To First Fix	Cold status 45s Warm status 35s Hot status 1s
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

2. HARDWARE DESCRIPTION



INDICATOR LIGHT STATUS	MEANING
Yellow light -Solid	No GPRS signal
Yellow light -Flash	GPRS connection
Blue light -Solid	No GPS signal
Blue light -Flash	GPS connection

Note:GSM SIM CARD INSTALLATION GUIDE:Only GSM SIM card works in this model.

Note: The light below red housing:Head light.
The light in sim card slot:Indicator light.
Head light factory setting is off . (Pls refer to the 4.6)

3. TURN ON THE DEVICE

- The indicator light is on when SIM card is inserted, but the light is off in few seconds .
- The device gets GPS location when there is GPS signal and gets LBS location when there is no GPS signal.
- The device automatically turns off when the SIM card removed.

4. SMS TRACKING

Note : The yellow space  is a blank in SMS command.

4.1. Call the SIM card phone number in tracker, you will receive a Google Maps link of position, or sending message “G123456#” to SIM card phone number in tracker .

E.g:

G123456#

```
lat:22.65655  
lon:114.18573  
Spd:000  
T:13/10/15 15:55  
bat:70%  
ID:8168000010  
http://maps.google.cn/maps?q=+22.65655,+114.18573
```

4.2. Admin number setting (After admin number set, all SMS operations to the device are under this number only.)

Command:admin123456 phone number (This phone number is your own mobile phone number, not the SIM card number in tracker .)

Reply:admin ok

E.g:

admin123456  13265790180

.5.

Admin123456 13265790180

admin ok

When the unit is in over-speed alarm, Shake sensor alarm, or low battery alarm, it will send alarm information to the admin number. (13265790180)

Admin number Canceling:

Command :noadmin123456

Reply:noadmin ok

4.3. SOS number setting

Command : sos123456 phone number (This phone number is your own mobile phone number, not the SIM card number in tracker.)

Reply:sos number ok

E.g:

sos123456 13058018661

sos number ok

(After you set the SOS number, pls press the SOS button for 3 seconds, then the device will send “help alarm!” to the SOS number.)

E.g:

help alarm!

Lac:27e3 774e

T:12/04/16 04:54

Bat:70%

ID:9081001189

Last:T:12/04/16 03:31

[http://maps.google.com/](http://maps.google.com/maps?q=+22.91505,+114.07875)

[maps?q=](http://maps.google.com/maps?q=+22.91505,+114.07875)

[+22.91505,+114.07875](http://maps.google.com/maps?q=+22.91505,+114.07875)

SOS number canceling:

Command:nosos123456

Reply:nosos number ok

4.4. Over-speed Alarm setting (It works only in continuous positioning mode.)

Over-speed Alarm setting:

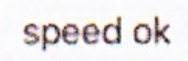
Command :speed123456 070 (Suppose speed is 70km/h)

Reply:speed ok

E.g:



speed123456 070



speed ok

When the unit speed is over 70km/h, it will send message “speed alarm!” to the admin number every 5 minutes.

Over-speed Alarm canceling:

Command:nospeed123456

Reply:nospeed ok

4.5. Shake sensor setting

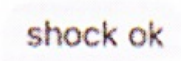
Command:shock123456

Message Reply:shock ok

E.g:



Shock123456



shock ok

Note:Pls keep the tracker being stationary for 5 minutes, this function will work.

The tracker will send SMS “sensor alarm!” to the admin number and the sos number when the unit get shaken.

Shake alarm Canceling:

Command:sleep123456 time

Reply:sleep time ok

E.g:

sleep123456 time

sleep time ok

4.6. Head light status setting

Set the head light on:

Command:LED123456 on

Reply:led on ok

E.g:

Led123456 on

LED on ok

The head light will keep on and flash all the time.

Set the head light on by shock sensor:

Command:LED123456 shock

Reply:led shock ok

E.g:

Led123456 shock

LED shock ok

When the device shocked, the head light flashes. And when it was stopped in 5 seconds, the LED light turns off automatically.

Set the head light off:

Command:LED123456 off

Reply:led off ok

E.g:

Led123456 off

LED off ok

The LED light will be off all the time.

Note:the tracker consuming much battery when the LED light flashing,pls choose the working mode according to your demand.

4.7. Terminal (local) Time Setting(factory setting GMT 0)

Command:timezone123456 local time zone

Reply:time ok!

E.g:

timezone123456 +1

timezone123456 -1

timezone123456 0

Timezone123456 +1

time ok

4.8. Reset Hardware

Command:begin123456

Reply:begin ok

E.g:

begin123456

begin ok

5. 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](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)

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:000** This refers to the device moving speed. The unit 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 alarms.
- ◆ **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 alarms.
- ◆ **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 gps signal appeared.

6.0 APP TRACKING

Pls activate GPRS by sending command "gprs123456" when the tracker is on, and set APN by following steps.

Every sim card carrier has own APN content, we have two methods to find out apn content : check sim card carrier on internet or put sim card into cell phone to find out APN.

Two steps to set apn:

1), Turn on gprs function by sending command "gprs123456".

2), Set apn by sending command "apn123456 content", "apnuser123456 content", "apnpassword123456 content", pls note the content is from SIM card carrier, there is small blank after 123456 in every command.

6.1. Search "TKSTAR" in the Apple App Store/Google Play Store or Scan the QR Code to install the applications into your cell phone.



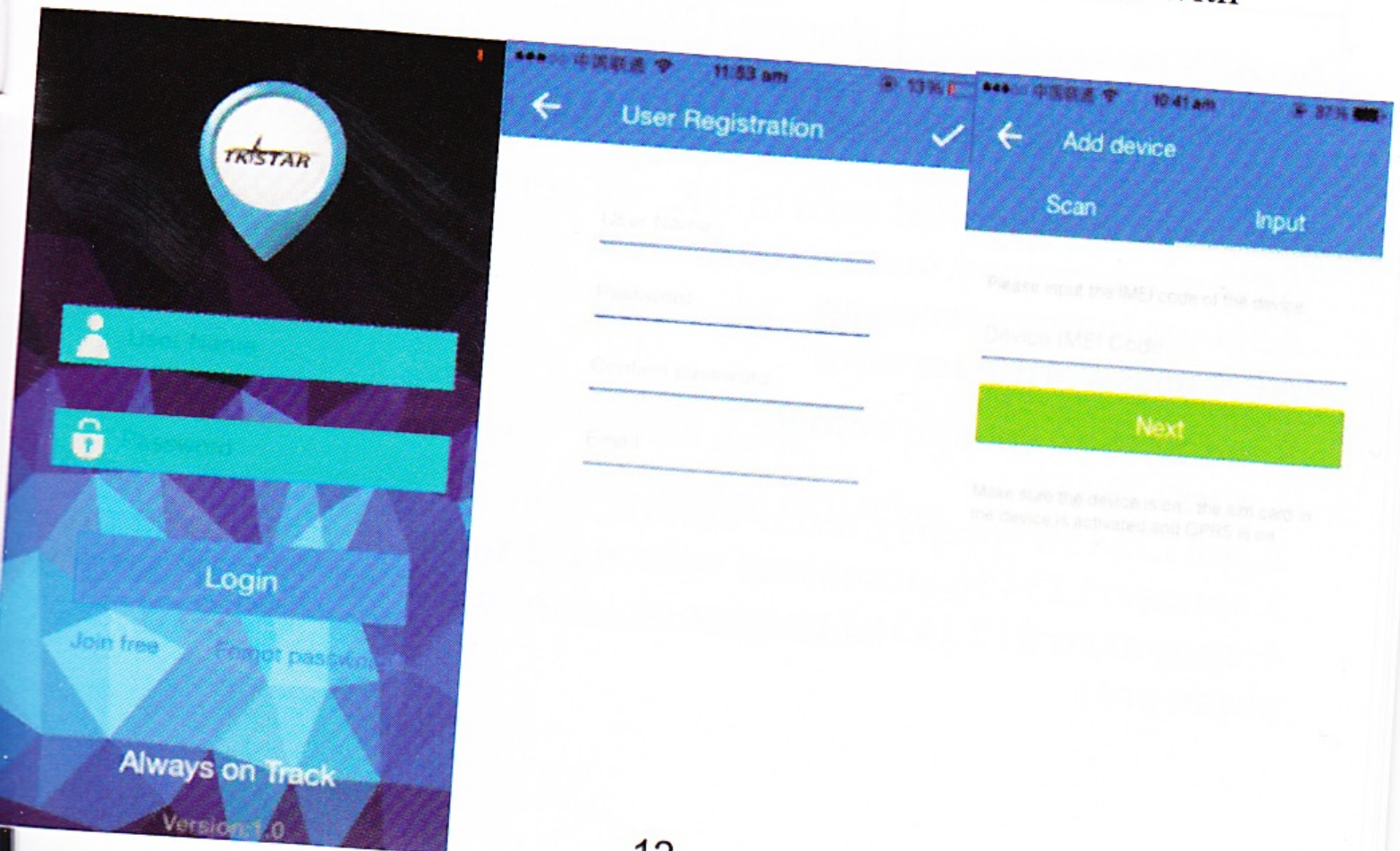
TKSTAR
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6.2. Register and add IMEI

Enter into TKSTAR application, please click “Join free” and register account.

User's registration: please remember your email while registering your account in case of forgetting the password.

Log into app with your registered account and add the device with IMEI number.



6.3. Turn on GPRS function by sending command “GPRS123456” to the tracker, and set the APN for the tracker, then its online tracking by APP and platform works. (if you did it already in 6.0, no need to it one more time)

COMMAND INSTRUCTION TO SET APN

INSTRUCTION	COMMAND	REPLY
Turn on GPRS	gprs123456	gprs ok
Set APN (any existing will be replaced)	apn123456 apn content	apn ok
Set APN username	apnuser123456 content	apnuser ok
Set APN password	apnpasswd123456 content	apnpasswd ok

E.g:

For tesco mobile SIM card in UK, we got APN information below.
APN name:prepay.tesco-mobile.com

APN username:tescowap

APN password:password

Send SMS to set apn below

1.gprs123456

2.apn123456prepay.tesco-mobile.com

3.apnuser123456tescowap (no need to set if without apnuser)

4.apnpasswd123456password (no need to set if without password)

gprs ok

gprs123456

apnuser ok

apnuser123456 tescowap

apn ok

apn123456 prepay.tesco-
mobile.com

apnpasswd ok

apnpasswd123456
password

6.4. Log into APP / tracking platform

1. Log into APP by your account, you can see options below:

-  : Call phone number in tracker.
-  : Tracker call admin phone number.
-  : Changing maps from satellites map to 2D map.
-  : The distance from tracker location to cell phone location.
-  : Battery.
-  : GPRS signal.
-  : GPS signal.

demo

 Navigation

: Device name.

 2015-10-27 10:41  LBS

: Navigation to tracker.

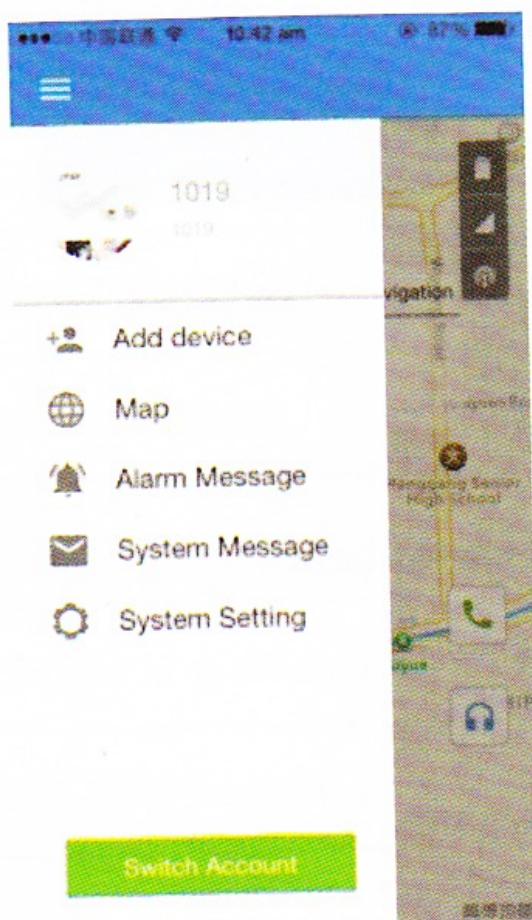
No. 165 Shenzhu West Road

: Location time.

: Positioning mode.



:related information on account.



Touch the icon: set the account name, password and picture.

Add device: add more devices under one account.

Map: device positioning interface.

Alarm Message: check all devices alert information under the account.

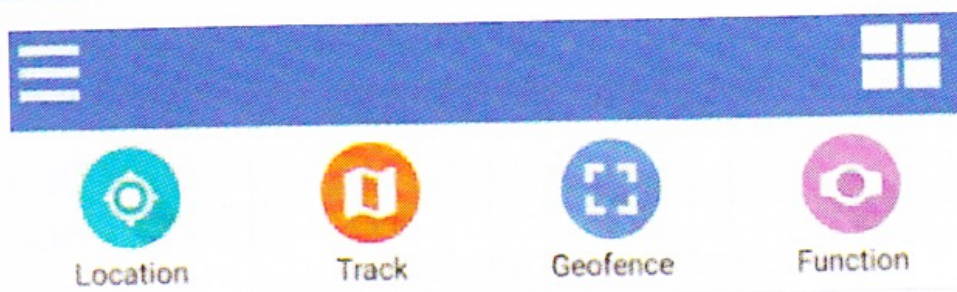
System Message: authorization to other accounts to add the devices under the account.

System setting: set related parameters of the account.

Switch Account: log out.



:Related functions.



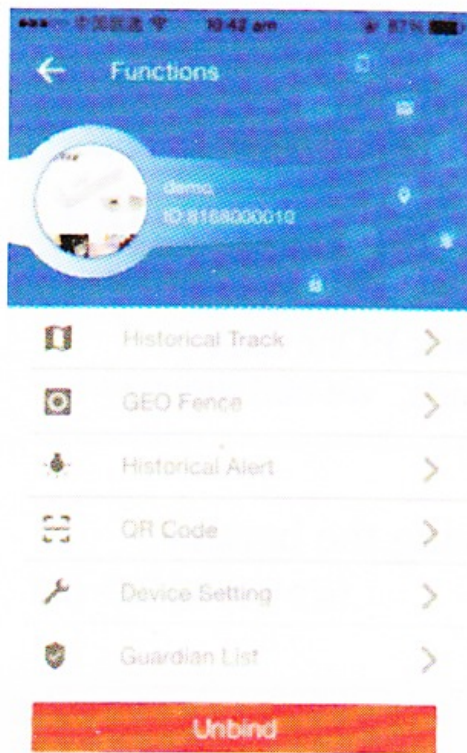
Location: Touch once to get the latest position.

Track: View history route of tracker.

Geofence: Set Geo fence alarm.

Function: Set other functions.

More functions:



Touch the icon: set the device name, SIM number and picture.

Historical Track: view all route history of the device.

GEO Fence: set Geo fence to alarm.

Historical Alert: check device alert information.

QR Code: share the device to be added into other account.

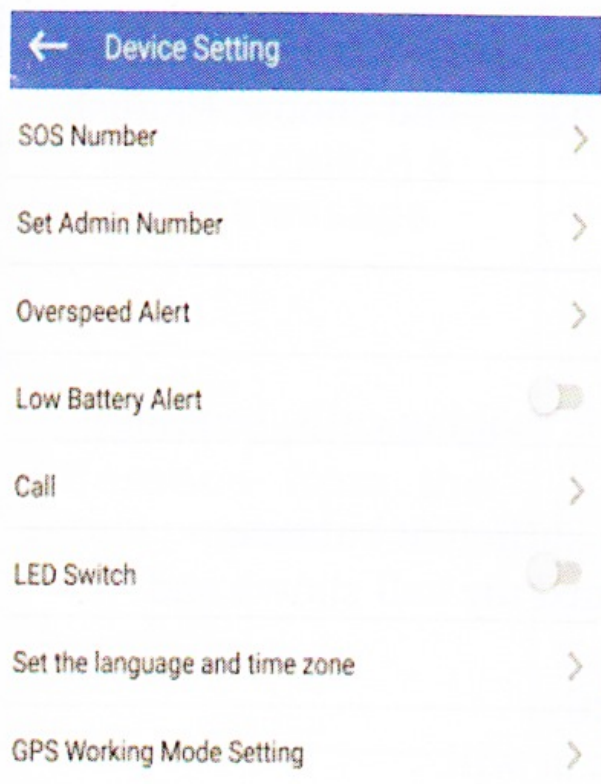
Device Setting: set related parameters of the device.

Guardian List: check the Binding account.

Unbind: lift the binding of device and account.



Device Setting



Related parameters to set the device .

SOS number: all alarm information will be sent to the SOS number.

> **Set admin number:** all alarm information (but SOS) will be sent to the master number.

> **Overspeed Alert:** when device's speed is over the setting speed, it will send alarm to SOS number and master number.

> **Low Battery Alert:** On/Off low battery alert (factory setting is on)

> **Call:** the device can call-out to any phone numbers.

> **LED Switch:** On/Off the head light. (factory setting is off)

> **Set the language and time zone:** Choosing the language and time zone.

GPS Working Mode Setting

- ☐ 12 hrs (Standby Power Saving)
- ☐ 01 hrs (Extremely Power Saving)
- ☐ 30 mins(Power Saving track)
- ☒ 10 secs (Real-time track)

Cancel

Confirm

GPS Working Mode setting (GPS Updating FREQ): 4 modes

12 hrs (Standby mode):One data uploading per 12 hours (Standby mode)

01 hrs (Extremely Power Saving):One data uploading per hour

30 mins(Power Saving track):One data uploading per 30 minutes

10 secs (Real-time track):One data uploading per 10 seconds, we call device continuously tracking

Suggestion: please choose standby mode for saving the battery.

6.5. Emergency Tracking



Touch **Location** “Location” once, APP will show you the latest position, or call the phone number in tracker, you will get the Google link in SMS.

7.PLATFORM TRACKING

- 1.Enter into the website www.tkstargps.net, and choose English.
- 2.Log into your account.

8. Notices:

- 1.GPS tracking can be worked outdoor.
- 2.Please make sure GSM SIM card supports making calls, sending messages, GPRS network.
- 3.Please make sure GSM SIM card is with sufficient balance.
- 4.Please make sure the GSM card has opened the call shows and turned off the call transfer.
- 5.Please insert the GSM phone card correctly.
- 6.Do not assembly and disassembly device at will.

9. FAQ and processing methods

FAQ	Instructions/Solutions
Fail to turn it on	Please check if battery is charged.
No GSM signal	◆ Please check if SIM card installed correctly. ◆ Please check if SIM card is GSM network. ◆ Don't turn on the PIN code. ◆ no calls can be diverted.
No GPS	A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.
No reply to SMS command	Password wrong or the format is wrong.
No reply to calling & No alarm message	Authorized / admin phone number is incorrect or has not setup.
Platform position is difference from the actual position.	No uploading position time or no GPS signal: call the device phone number and receive the position message. If it shows like Pic 2, it means no GPS signal. The position is the last GPS positioning location; If it shows like Pic 1, it means the device doesn't reach the uploading time. You can send "upload123456 10" to star real-time tracking.



GSM/GPRS GPS TRACKER