TK-STAR STICK GPS TRACKER USER MANUAL

PREFACE

Thank you for purchasing TKSTAR GPS tracker. This manual shows how to operate the device smoothly and correctly in details, please make sure to read this manual carefully before using the device. Please 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.

TECHNICAL SPECIFICATIONS	
Dimensions	70mm x 25mm x 15mm (2.7"x0.98"x0.60 ")
Weight	32 grams
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	~159dBm
GPS accuracy	5 meters
Time To First Fix*	Cold: 45 seconds | Warm: 35 seconds | Hot status: 1 second
Car charger	Input: 12—24V | Output: 5V
Wall charger	Input: 110—220V | Output: 5V
Battery	Rechargeable 3.7V 420mAh Li-ion battery
Standby	100 hours
Storage Temp.	–40°C to +85°C
Operation Temp.	–20°C to +55°C
Humidity	5% - 95% non-condensing

*Time To First Fix (TTFF) is a measure of the time required for a GPS receiver to acquire satellite signals and navigation data. As well as calculating a position solution (called a fix).
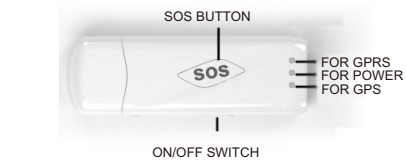
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1 SUMMARY

Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS, APP and Internet. It adopts the most advanced technology of GPS and AGPS dual positioning.
This device can directly connect with the computer for charging, as well as the car USB port, power bank. Under this case, you can use it while charging to avoid running out of the battery.

. 2.

SOS BUTTON

FOR GPRS
FOR POWER
FOR GPS

ON/OFF SWITCH

LED INDICATOR STATUS	MEANING
Yellow-Solid	No GPRS signal.
Yellow-Flashing	GPRS communication established.
Center-RED-Not lit	Fully charged.
Center-RED-Solid red	Charging.
BLUE-Solid	Searching for GPS signal.
BLUE-Flashing	GPS location successful.

Note: SMS tracking works in Yellow-Solid mode and Yellow-Flashing mode, online tracking only works in Yellow-Flashing mode, turn on Yellow-Flashing mode by sending command "gprs123456" and set APN for the tracker.
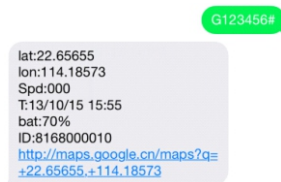
2. INSTALLATION

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Please pull the lid and insert the mobile phone SIM card, and please pay attention to the direction, as shown in the shell icon.
Note: Insert SIM card before boot. If the SIM card is already installed when the device is on, please reboot the device.

3. TURN ON THE DEVICE

♦ Insert the SIM card and press the "on/off" button until the indicator is on.
♦ Activate the GPRS function after booting in 30seconds. (please refer to 6.3 settings)
♦ After shutdown, This device will automatically start to work while charging.
♦ This device automatically locates with GPS positioning when there is GPS signal, but locates with LBS positioning when there is no GPS signal.

4. SMS TRACKING

4.1Send message "G123456#" to the device SIM card phone number, or call the SIM card phone number, you will receive a

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

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4.2Send message "sos123456 phone number" to the device phone number to set the SOS number.
Press the SOS button for 3 seconds, the device will send "help alarm! " message to the SOS number.

Sos123456 13265790180

sos number ok

help alarm!
lat:22.63948
lon:114.17214
Spd:000
T:13/10/15 10:18
bat:100%
ID:8168000010
http://maps.google.com/maps?q=+22.63948,+114.17214

5. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE

Call the device phone number, it will automatically hang up and reply the positioning message. (positioning by APP or platform can save message fee.)

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

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

PicI   PicII

PicI : Replied real-time tracking information under GPS satellites signal.
♦ lat:22.63952 lon:114.17122:Positioning of the latitude and longitude values.
♦ Speed: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.

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♦ 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 II : Replied real-time 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 means the device last received a GPS signal.
♦ Google Link:This means the device last saved google map link by GPS signal.
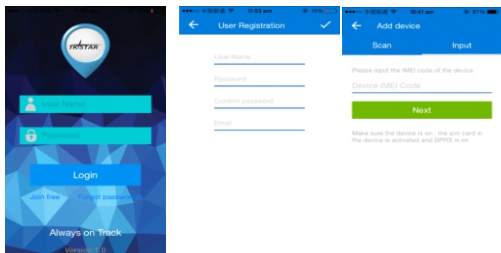
6. APP TRACKING

6.1 Scan QR code to install the application on cell phone.

6.2 Register and add account

Enter into the TKSTAR application, please click "Join free" and register your account.
User's registration: please remember your register email while register your account in case of forgetting the password.
Log in with your registered account and add the device with its back IMEI number to your account.

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6.4 Log in the device

1.Logging in the APP with account, it shows the positioning interface.

📞 : Call the device phone number.
🎧 : Device number calls the master number.
🗺 : Transformation of satellites map and 2D map.
📱 : Position transformation of device location and cell phone location.
🔋 : Battery
:GPRS signal
:GPS signal.

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.

Gprs123456

gprs ok

INSTRUCTION	COMMAND	REPLY
Set new APN (any existing will be replaced)	apn+123456+space+apn content	apn ok
Set APN username	apnuser+123456+space+content	apnuser ok
Set APN password	apnpasswd+123456+space+content	apnpasswd ok
Set data upload interval (default:3600 seconds)	Upload+123456+space+30	upload ok

Note: '+space+' means press the space key 1 time
The APN must be setup for the device to be able to upload data over the internet. Also, after setting the APN, the tracker must be set to Data mode. Ask your mobile provider for the correct APN settings. This can also be generally found in the FAQ online.
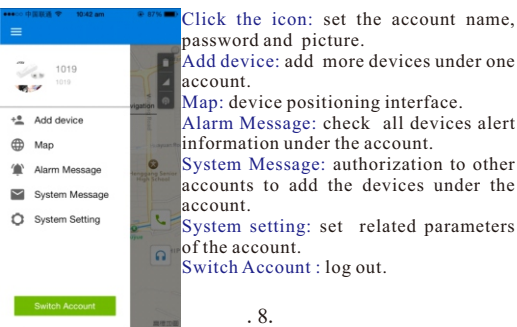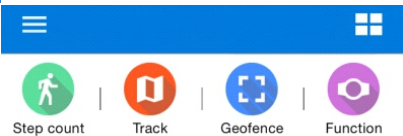
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📱 : Device name, Location, time, Positioning mode, Automatic navigation to the devicelocation.

☰ :Related information to the account.

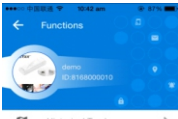**Click the icon:** set the account name, password and picture.
Add device: add more devices under one account.
Map: device positioning interface.
Alarm Message: check all devices alert information under the account.
System Message: authorization to other accounts to add the devices under the account.
System setting: set related parameters of the account.
Switch Account : log out.

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▦ :Device related functions and settings.

Step count | Track | Geofence | Function

Step count: account walking steps of the device in a day.
Track: view all route history of the device.
Geofence: set Geo fence to alarm.
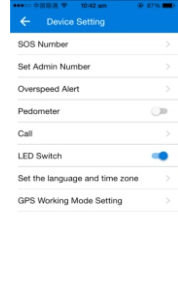**Function:** set functions.

More functions:

Click 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: checking device alert information.
QR Code: share the device to other accounts to add.
Device Setting: set related parameters of the device.
Guardian List: check the Binding account.
Unbind: lift the binding of device and account.

Related parameters to set the device:

Note: Function works when it is set in working mode. You can call the device number to wake it up and set parameters in 5 minutes.

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SOS number: press the SOS button for a while, it will send"help" to the SOS number.
Set Admin number: all alarm information except the SOS alarm will be sent to the master number.
Overspeed alarm: when device's speed is over the set speed, it will send alarm information to SOS number and master number. (It works in real-time tracking mode.)
Pedometer: Turn on/off the steps switch. (The default steps switch is off.)
Call: the device can call-out any phone numbers.
LED Switch: Turn on/off the LED light. (The default LED light is on.)
Set the language and time zone: choose the language and time zone.

GPS Working Mode setting(GPS Updating FREQ): 4 modes can be chose.

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

12 hrs (Standby mode): upload positioning data every 12 hours, this is the longest mode while using.
01 hrs (Extremely Power Saving): upload positioning data every one hour.
30 mins(Power Saving track): upload positioning data every 30 minutes.
10 secs (Real-time track): device continuously positioning. This is the shortest mode while using.
Suggestion: please choose standby mode if it's not in emergency situations.

6.5 Positioning in emergency

If you want to position in emergency but device is in sleeping mode, you can call the device number. Later you will receive a positioning message and it will be uploaded to the platform and APP. Or you can send "upload123456 10" to the device number to star real-time tracking. (Please be noted that it costs much in power)

Upload123456 10

upload ok

. 10.

6.6TRACKING BY PLATFORM

1.Enter into the website www.tkstargps.net and choose English.
2.Log in your account registered in APP.

7. Notices:

♦ GPS tracking can be worked outdoor. Only outdoor it has GPS signal.
♦ Please make sure the SIM card supports making calls, sending messages, GPRS network.
♦ Please make sure the SIM card is with sufficient balance.
♦ Please make sure the SIM card has opened the call shows and turned off the call transfer.
♦ Please insert the GSM phone card correctly.
♦ Do not assembly and disassembly device at will.
♦ Please charge the device with 5V output charger or USB.

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8. FAQ and processing methods.

FAQ	Instructions/Solutions
Cannot boot the device.	Pls check the battery if it is full.
Called the device but no message replied.	If you send "G123456#" to the device but no any reply, it may be regarded as spam and blocked. Please try to track it by APP or platform.
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.
Replied two positioning message	Last means the last position history without GPS signal. Once it received GPS signal, it will send the position message later. (Pic 1)

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