

TK-STAR 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.

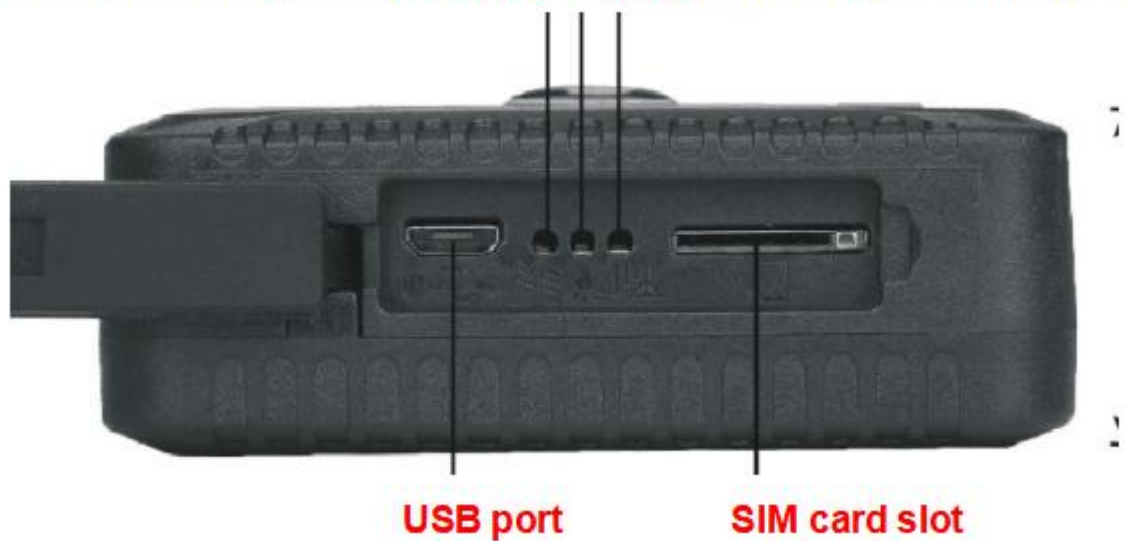
1 SUMMARY

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.

Content	Specs.
Dim.	112*77*27mm
Weight	300g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS accuracy	5m
Charging input	DC 5V==1.0A
Battery	Chargeable 3.7V 10000mAh Li-ion battery
Stand by	180days
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

Blue light: GPS signal Red light: charge light Yellow light: GPRS signal



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



Normal SIM



Micro SIM



Nano SIM

3.TURN ON THE DEVICE

- Open the rubber cover, insert the SIM card(chip up) to the slot.
- The indicator light is on when SIM card is inserted.
- 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 is removed.

4.SMS TRACKING

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:

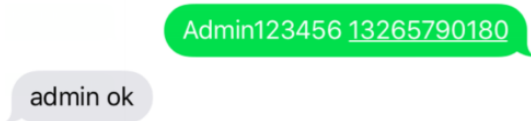


4.2. Admin number setting (After admin number setting, all SMS operations to the device are under this number only.)

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`



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

Admin number Canceling:

Command : `noadmin123456`

Reply: `noadmin ok`

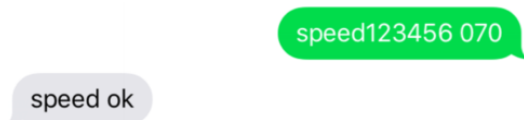
4.3. Over-speed Alarm setting (It works only in continuous positioning mode.)

Over-speed Alarm setting:

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

Reply: `speed ok`

E.g:



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`

4.4. Shake Alarm setting

Command: `shock123456`

Message Reply: `shock ok`

E.g:



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 when the unit get shocked.

Shake alarm Canceling:

Command: `noshock123456`

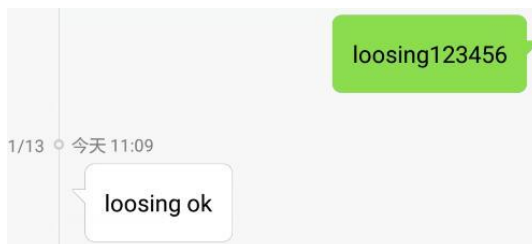
Reply: `noshock ok`

4.5. Loosing Alarm setting

Command: `loosing123456`

Message Reply: `loosing ok`

E.g:



Note: 设备背面带有防拆除感应传感器，如果感应传感器被遮挡后再不被遮挡，设备会产生报警"Loosing alarm!"发短信给中心号码和 SOS 号码。（出厂默认打开）

Loosing Alarm Canceling:

Command: `noloosing123456`

Reply: `noloosing ok`

4.6. Device working mode setting

Sleep by time mode setting:

Command: `sleep123456 time`

Reply: `sleep time ok`

E.g:



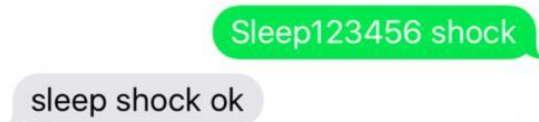
(Tracker only works for 5 minutes after being waked up, and back to sleep mode, GPS shut off, GSM works in low consumption mode. SMS command, calling tracker can wake up the tracker.)

Sleep by shock sensor mode setting: (Factory setting is "Sleep by shock mode")

Command: `sleep123456 shock`

Reply: `sleep shock ok`

E.g:



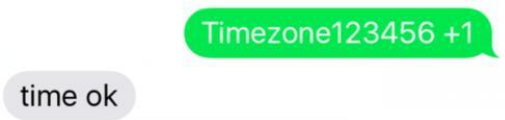
(No shock for 5 minutes, the tracker will work in "sleep by shock" mode, GPS shut off, GSM works in low consumption. Vibration, SMS, calling can wake up the tracker.)

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`



4.8 Reset Hardware

Command: `begin123456`

Reply: `begin ok`

E.g:



5. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE

A screenshot of an SMS message with the following text:
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)

A screenshot of an SMS message with the following text:
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: 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 START ONLINE 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](#)” ,“[apnpasswd123456 content](#)” pls note the content is from SIM card carrier , there is small blank after 123456 in every command.

6.1 WEBSITE TRACKING

Platform : www.mytkstar.net

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

IMEI No. : on the back side of cover

Password: 123456

6.2 APPLICATIONS FOR ANDROID/IOS

Search “TKSTAR GPS“ in the Apple App Store/Google Play Store or Scan the QR Code to install the applications on your cell phone.



TKSTAR GPS
li yi

Select "Log in by IMEI" on the bottom of screen

Server: www.mytkstar.net

IMEI : on the back side of cover

Password: 123456

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)	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

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. apn123456 prepay.tesco-mobile.com
3. apnuser123456 tescowap (no need to set if without apnuser)
4. apnpasswd123456 password (no need to set if without password)



7. 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.

8. FAQ and processing methods.

FAQ	Instructions/Solutions
Fail to turn it on	Please check if battery is charged
No GSM signal	<ul style="list-style-type: none"> ● 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
SMS position OK, cannot use the APP and web platform	Pls check if APN is correctly set. And pls find out the correct APN content of the SIM card. (Pls refer to 6.3 setting.)

<p>Platform position is difference from the actual position.</p>	<p>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.</p>
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