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.

- Simple to use, three months long standby GPS Tracker.
- Track vehicle/motor/ lorry.
- Also for tracking children/the elderly/cycling.
- APP and Android Real time Tracking.
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.

<table>
<thead>
<tr>
<th>Content</th>
<th>Specs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim.</td>
<td>90mm x 72mm x 22mm (3.5”*2.8”*0.8”)</td>
</tr>
<tr>
<td>Weight</td>
<td>168g</td>
</tr>
<tr>
<td>Network</td>
<td>GSM/GPRS</td>
</tr>
<tr>
<td>Band</td>
<td>850/900/1800/1900Mhz</td>
</tr>
<tr>
<td>GPS sensitivity</td>
<td>-159dBm</td>
</tr>
<tr>
<td>GPS accuracy</td>
<td>5m</td>
</tr>
<tr>
<td>Wall charger</td>
<td>110-220V input 5V-1A output</td>
</tr>
<tr>
<td>Battery</td>
<td>Chargeable changeable 3.7V 5000mAh Li-ion battery</td>
</tr>
<tr>
<td>Stand by</td>
<td>90days</td>
</tr>
<tr>
<td>Time To First Fix</td>
<td>Cold status 45s Warm status 35s Hot status 1s</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Operation Temp.</td>
<td>-20°C to +55°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>5%-95% non-condensing</td>
</tr>
</tbody>
</table>
2. HARDWARE DESCRIPTION

1. USB port
2. Indicator light
3. SIM card slot
4. Lanyard hole
5. Strong Magnet

<table>
<thead>
<tr>
<th>INDICATOR LIGHT STATUS</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow light -Solid</td>
<td>No GPRS signal</td>
</tr>
<tr>
<td>Yellow light -Flash</td>
<td>GPRS connection</td>
</tr>
<tr>
<td>Blue light -Solid</td>
<td>No GPS signal</td>
</tr>
<tr>
<td>Blue light -Flash</td>
<td>GPS connection</td>
</tr>
</tbody>
</table>

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

![Image of SMS message]

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
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. Over-speed Alarm setting

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
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: noshow123456
Reply: noshow ok

4.5. 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.)

4.6. Terminal (local) Time Setting (factory setting GMT 0)
Command: timezone123456 local time zone
Reply: time ok
E.g:
timezone123456 +1
timezone123456 -1
timezone123456 0

4.7. Reset Hardware
Command: begin123456
Reply: begin ok
E.g:
5. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE

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 **“apn123456content”, “apnuser123456content”, “apnpasswd123456content”**, pls note the content is from SIM card carrier, there is small blank after 123456 in every command.

6.1. WEB ONLINE TRACKING

Platform:  mytkstar.net
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.

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

<table>
<thead>
<tr>
<th>INSTRUCTION</th>
<th>COMMAND</th>
<th>REPLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn on GPRS</td>
<td>gprs123456</td>
<td>gprs ok</td>
</tr>
<tr>
<td>Set APN (any existing will be replaced)</td>
<td>apn123456 apn\text{\text{content}}</td>
<td>apn ok</td>
</tr>
<tr>
<td>Set APN username</td>
<td>apnuser123456 \text{\text{content}}</td>
<td>apnuser ok</td>
</tr>
<tr>
<td>Set APN password</td>
<td>apnpasswd123456 \text{\text{content}}</td>
<td>apnpasswd ok</td>
</tr>
</tbody>
</table>
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 a pn 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)

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

<table>
<thead>
<tr>
<th>FAQ</th>
<th>Instructions/Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail to turn it on</td>
<td>Please check if battery is charged.</td>
</tr>
<tr>
<td>No GSM signal</td>
<td>♦ Please check if SIM card installed correctly.</td>
</tr>
<tr>
<td></td>
<td>♦ Please check if SIM card is GSM network.</td>
</tr>
<tr>
<td></td>
<td>♦ Don’t turn on the PIN code.</td>
</tr>
<tr>
<td></td>
<td>♦ No calls can be diverted.</td>
</tr>
<tr>
<td>No GPS</td>
<td>A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.</td>
</tr>
<tr>
<td>No reply to SMS command</td>
<td>Password wrong or the format is wrong.</td>
</tr>
<tr>
<td>No reply to calling &amp; No alarm message</td>
<td>Authorized / admin phone number is incorrect or has not setup.</td>
</tr>
<tr>
<td>Platform position is difference from the actual position.</td>
<td>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.</td>
</tr>
</tbody>
</table>