

## **3 years standby GPS Tracker**



### **Note:**

In order to be able to quickly set up and use, please read this manual carefully before using. The appearance & color, are subject to the actual product. If any update in the product and its accessories, the company is subject to change without notice.

## **I Product overview**

TK-110 is a long time standby GPS tracking device with small size, used in asset monitoring and management. Mainly used for leasing, credit vehicles, valuable storage and transportation, heavy machinery and equipment rentals, cattle grazing management, automobile, motorcycle electric vehicles and specific goods monitoring.

GPS and GSM modules used a stable industrial grade module, completely built-in GPS and GSM antennas. TCP/IP protocol implementation complete, wireless network communications are more fast and reliable.

## **II Feature**

### **1. Regular boot and set intervals:**

The factory default setting is upload GPS or LBS data to server every 24 hours, A-GPS technology allows the product locate quickly in a shortest time. After the data transfer completed, the product goes into sleep mode immediately. According to your demand, the wakeup interval is adjustable (between 5-1440 minutes).

### **2. Lowest power consumption in standby mode 1UA:**

The standby power consumption of traditional GPS Locator is 20-50MA, it reduces 2-50000 times.

### 3. **LBS&GPS dual positioning:**

TK-110 uses the fourth generation technology, accuracy about 5-10 meter. GPS positioning priority, LBS for a secondary location. For the place cannot receive GPS signals, it will converted to LBS (base station) location automatically, (Such as underground garage, tunnels), the device can search a base station information around, the middle point is the locating datum.

4. **Portable. Anti-jamming:** Small size enhances its covert use, sparse sent, avoid GSM signal detector.

### III (Technical Parameters)

Dimension	3.54"*2.36"*0.86" (90 * 60* 22)mm
Working voltage	DC10.8V
GPRS	Class 12, TCP/IP
Battery power	6000mah
Weight	85g
Operation Temp.	-20°C -- 70°C
Storage Temp.	-20°C -- 70°C
Operation Humidity	10% -- 95% (Non-water vapor condensation state)
GSM Band	900MHz / 1800 MHz /850MHz / 1900 MHz
GPS Accuracy	10 meter
GPS Chip	UBLOX-G7020
GPS module	SIMCOM
Power consumption	Sleep mode: 3mA      Peak state: 50mA
Time To First Fix	Reacquisition time≤1S
	Hot status 1s
	Cold status ≤ 23s

### IV LED Light Status description

<b>LED Inducator</b>	<b>LED Status</b>	<b>Meaning</b>
Red,Blue	on	working
Red	slow flashing	connect to network
Blue	continuously on	GPS Fixed
Red	quick flashing	start transmit GPRS data
Red,Blue	off	positioning end

## V Work schedule

Standby	6-7 days	2 months	9 months	18 months	3 years
Locate interval	5 minutes	1 hour	6 hours	12 hours	24 hours

## VI SMS Command

### 1. Modify time

SMS Format: timepassword HHMMinterval

Interval: upload interval time. (Unit: minutes, interval 0005-1440m)

For example:

Upload data per 1440 minutes at 12:30 o'clock, send SMS command:

Time123456 12301440. **Default password: 123456**

A. **Factory default setting: daily report data after power on, if you need to change the report time and upload interval, please send before power on. Once the device receive the message, it will reply "OK" to take effect.**

B. Secondary preset intervals for time and location will take effect next time you wake up.

### 2. SMS Tracking:

SMS reply:

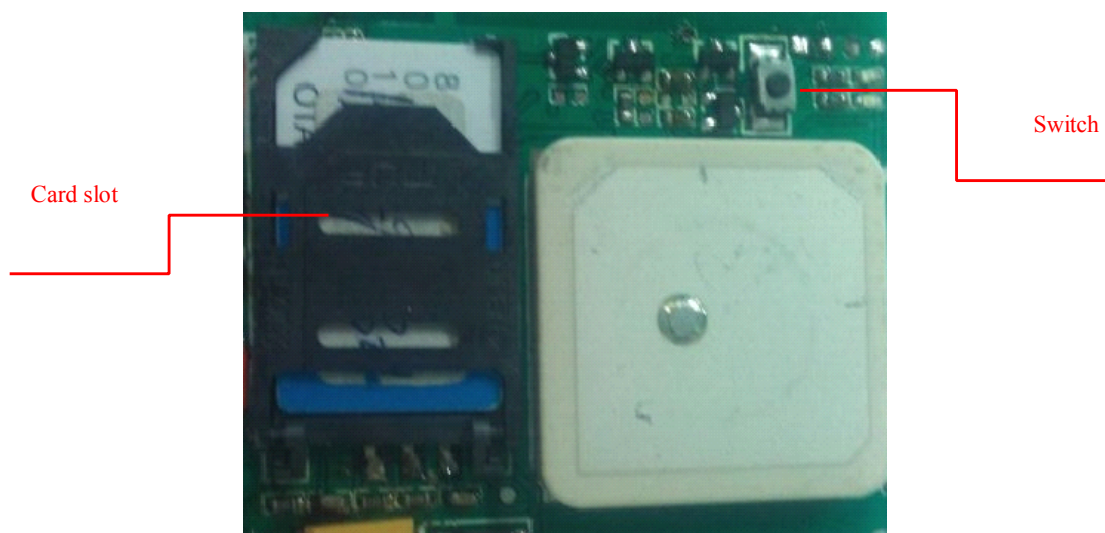
[2014.11.14 16:06:00 000Km/hhttp://maps.google.com/maps?q=N22.761481,E113.911898](http://maps.google.com/maps?q=N22.761481,E113.911898)

Please check other SMS command list at the last page.

## VII Battery replacement

Our standard battery is 3pcs 3.6v the 5<sup>th</sup> battery, continue using 3 years (locate 24 hours per time), must be replaced with same type battery when expire, this battery is disposable, cannot charging again.

## VIII Installation guide



1. Open the rear cover, put into the SIM card, please pay attention to the orientation of the card and the GPRS function is activated;
2. Press the switch to turn on the device, check whether the light is turn on or not, if the LEDs on, the device is working.
3. You can install it after test the the function properly.
4. Installation of equipment must be facing up, so that it will be able to receive satellite signals, the best installation location is: vehicle's cab, it may affect positioning performance if install under engine cover or under the vehicle.

### **IX Best location to install device:**

- 1) Front of the passenger seat glove box: turn down the screw, glove box off, and then adhesive to device with 3M tape, hands stretched upwards, glued to the instrument panel of the device, this installation method is the best.
- 2) Car inside door panel armrest shelve or under your seat.
- 3) Front of pilot: Pull apart the insurance cover under the steering wheel, stretch your hand, adhesive to the bezel on the inclined plane device, the device front must face up, otherwise, affect GPS positioning performance.
- 4) Elsewhere, it is best to test first, and then select the best installation location.

### **X Question and Answer**

1. If My car is parked in an underground garage, you can locate it?

Answer: Yes, GPS has been converted to a base station location at this time, not accurate location, estimated at 300 meters range is normal.

2. Can I wake up the GPS device at any time?

Answer: in Hibernate standby mode cannot be awakened. The GPS device usually in standby in order to save power, only wake up and launch location as setting time.

( if you need to reset interval time urgently, you can turn on the switch to take effect).

3. Can i change the locating interval time?

Answer: Yes, you can send SMS command, device will receive the message and change the time as your request once it wake up; Attention: if the interval time shorter, the battery lifespan shorter accordingly.

4. In order to save the battery power, can i set the interval time much longer than a day, for example, upload data 10 days per time?

Answer: No. Now the maximum interval is one day at a time. More than one day cannot be set.

5. If I set interval time 1 hour, after 2 month, i cannot find the location information, what shall I do?

Answer: The battery use up, you should replace the military batteries, enabling a new military battery, military battery can not charge.

6. Can I replace ordinary rechargeable batteries?

Answer: No. Firstly, you should pay attention to the voltage level, voltage now 10.8V; Secondly, rechargeable batteries cannot use three years, even cannot use 1 year.

## XI SMS Command

FUNCTION	SMS	SMSREPLY
Change password	password123456 666888	Change password ok, your new password is 666888
Resume password	resumepassword	resume password,password is 123456
Add in number	admin123456 13511113333	admin ok
Delete number	noadmin123456 13511113333	no admin ok
Add number	number13500001111	set number ok
GPRS setting	Ip121.37.43.203port8011	set ip address and port ok
Set APN	apn123456 cmnet	set APN ok
Set APN user name and password	user123456 cmnet cmnet	Set apn user name and password ok
Set time zone	zone123456 0	Set zone ok
URL track	tracking	<a href="http://maps.google.com/maps?q=">http://maps.google.com/maps?q=</a>
IMEI	imei123456	IMEI: