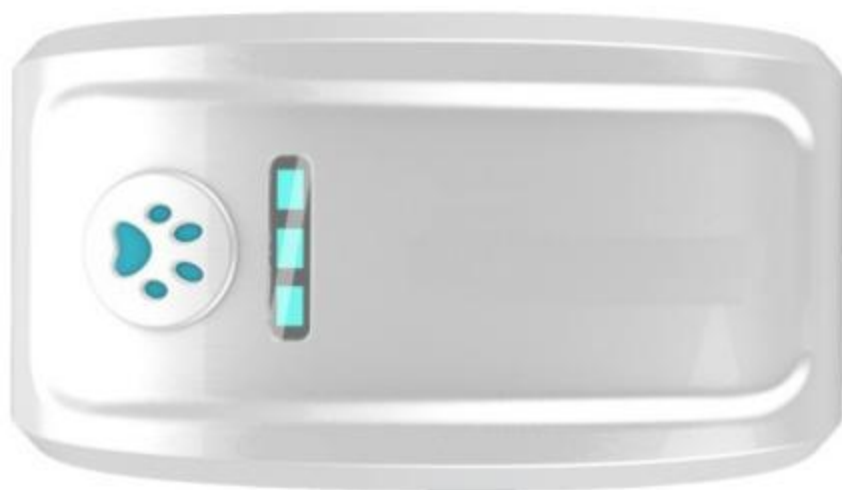# GPS TRACKER USER MANUAL

PREFACE

Thank you for purchasing WINNES 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 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.

TK909-4G/2G

1.SUMMARY

Working based on existing GSM/GPRS/LTE 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.	70mm x 37mm x20mm(2.7″*1.4″*0.78″)
Weight	44g
Network	GSM/GPRS/LTE
Band (4G)	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66 GSM:850/900/1800/1900MHz
Band (2G)	GSM:850/900/1800/1900MHz
GPS sensitivity	-159dBm
GPS accuracy	5m
Charging input	DC 5V⎓1.0A
Battery	1000mAh Li-ion battery
Stand by	6 days(4G) / 10days(2G)
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

1.SOS button   2.GPS signal indicator light
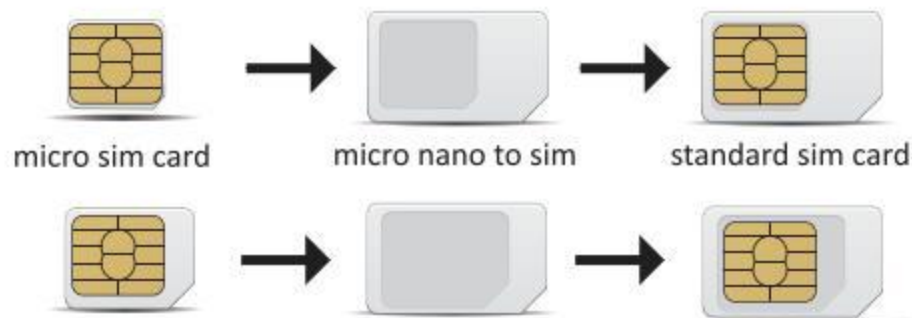3.GPRS signal Indicator light   4. SIM card slot   5.USB port

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

Buy a Normal SIM card(Standard SIM card), register the SIM card and top up with credit

nano sim card   nano to sim   standard sim card

micro sim card   micro nano to sim   standard sim card

NOTE:
IF you have bought a Nano/Micro SIM card, you will need to use an adaptor to fit in.

.3.

3.TURN ON THE DEVICE

- Turn on the unit outdoors by insert sim card.
- In 10 or 40 seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals. The indicator will keep flashing every 3 seconds when the unit has received the signals.
- Turn off the unit by removing the SIM card.

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 .
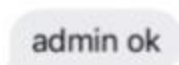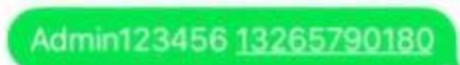
E.g:

> 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 ▮ 004986XXXXX

> 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 function setting
SOS number setting
Command: sos123456 phone numer (This phone number is your own mobile phone number , not the SIM card number in tracker .)
Reply: sos number ok
After you setting the SOS number, press the SOS button for 3 seconds, then the device will send SMS"help alarm!"to the SOS number.)

Sos123456 13265790180

sos number ok

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/maps?q=
+22.91505,+114.07875

SOS number canceling
Command: nosos123456
Reply: nosos number ok

4.4. 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

4.5. 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

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

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 ID 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. START ONLINE TRACKING

6.1. Set the APN for the tracker, then its online tracking by APP and platform works.

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

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.

COMMAND INSTRUCTION TO SET APN

INSTRUCTION	COMMAND	REPLY
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 vodafone mobile SIM card in Germany, we got APN information below.
APN name:web.vodafone.de
APN username:vodafone
APN password:vodafone

Send SMS to set apn below:
1. apn123456 web.vodafone.de
2. apnuser123456 vodafone   (no need to set if without apnuser)
3. apnpasswd123456 vodafone (no need to set if without password)

6.2. WEBSITE TRACKING
Website: www.mytkstar.net
Select "Log in by IMEI/ID" on the bottom of screen
IMEI/ID No. : on the back side of cover.
Password: 123456

6.3. APPLICATIONS FOR ANDROID/IOS
Search "WINNES GPS" in the Apple App Store/Google Play Store or Scan
the QR Code to install the applications on your cell phone.

WINNES GPS
Utilities

6.3.1. Login by IMEI/ID (Only one tracker)
Select "Log in by IMEI/ID" on the bottom of screen
Server: www.mytkstar.net
IMEI/ID No. . : on the back side of cover.
Password: 123456

6.3.2. login by username
Note: If you have two tracking devices or more, you need to contact the seller customer service first to create an account for your devices. You can login by username when you get a username and password.

Select "Log in by username" on the bottom of screen
Server: www.mytkstar.net
username: contact the seller customer service to create it
Password: 123456

6.3.3. Real-time tracking
Real-time tracking not only can track the position of the device, but also can track the position of smart phone
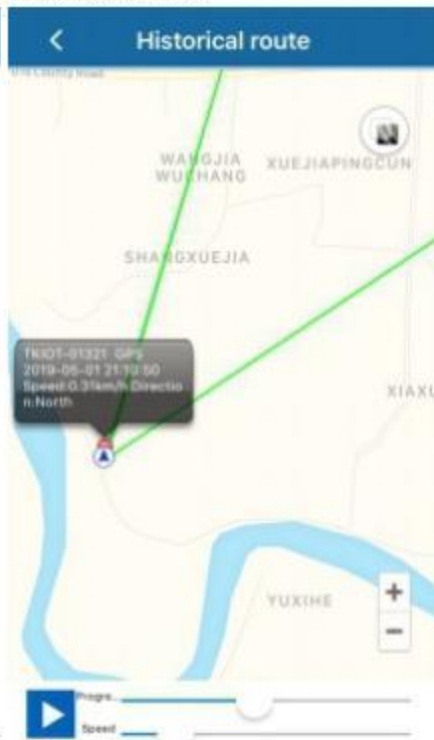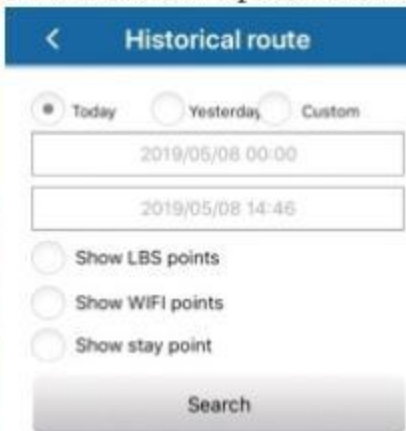On map click "+" and "-" to zoom in and zoom out the map.
Click' ⊕ " to view different location between smart phone and device, and click " ⓝ " to change the map vision between 2D/3D.
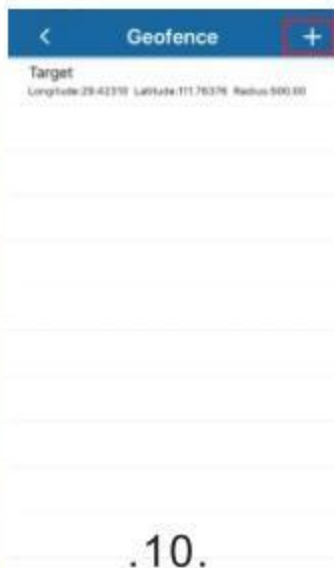
6.3.4. Historical track playback
Historical track could find the route map for nearly six months.

6.3.5. Geo-fence Setting
Click on the upper right corner "+"under main menu for setup geo-fence. The device will lock device's present position as center automatically, then adjust the radius distance by "+", " - " on map (default radius is 100 meters, recommended radius is 500 meters) .Save settings by clicking the upper right corner. The device will send alarm information when the device is out of the range.

.10.

Delete Geo fence : Long press the Geo fence name (eg. "Target") to delete it.

EXPLANATION OF OTHER ICONS IN APP:

Iusse: Issue commands to the device.
Device info: The information of device.
Device message: The alert message generated by the device.
User Info: The information of account.
Alarm setting: Turn on/off the different alarm types for the device.

7.FAQ and processing methods.

1.Fail to turn it on:
- Please check if battery is charged.

2.No SIM signal:
- Please check if SIM card installed correctly.
- Please check if SIM card is Support the device's band network.
- Don't turn on the PIN code.
- No calls can be diverted.

3.No GPS signal:
- A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.

4.No reply to SMS command:
- The command format is wrong or insufficient SIM card balance.
- Please make sure SIM card has sufficient balance, and supports making calls, sending messages, GPRS network,and has opened the call shows and turned off the call transfer.

5.SMS position OK, cannot use the APP and web platform:
- Please check if APN is correctly set. And find out the correct APN content of the SIM card. (Pls refer to 6.1 setting.)

6.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.

ELECTROMAGNETIC COMPATIBILITY

Very strong magnetic fields (e.g. transformers) should always be avoided as this may result in variations in the transmission. Failure to follow these instructions may lead to malfunctions or damage to your Winnes GPS device.

RISKS FOR CHILDREN AND PEOPLE IN NEED OF CARE

The use of this device is not intended for people (including children) with limited physical, sensory or mental abilities or lack of experience and/or lack of knowledge, unless they are supervised by a person responsible for their safety or have been instructed on the use of the device.

Note: Some countries, states or regions have laws related to location based tracking of people, animals and objects. It's the sole responsibility of the owner and user to abide by the law and rules in the area the Winnes GPS device is used. Please switch off the Winnes GPS tracker before boarding a plane.

SAFETY ADVICE

A faulty electrical installation or an excessive mains voltage may cause an electric shock.

• Before use, adjust the mains voltage of the socket with the information on the type plate.

• Before use, make sure that the mains voltage of the socket corresponds with the information on the type plate.

• To be able to disconnect the charging cable from the mains as quickly as possible in the event of a failure, connect the power supply unit where it is easily accessible.

• If you notice any visible damage to your GPS tracker or charging cable, do not use it.

• Do not open the housing of the GPS tracker. Leave the repair to qualified specialists. However, if you carry out repairs yourself, connect the GPS tracker incorrectly or operate it incorrectly, liability and warranty claims are excluded.