Quick Installation User Guideline

(Version V3.0)

Thank you for using the GPS TRACKER, The user guideline explains how to correctly operate this product in details. In order to get correct operating methods, please fully read this guideline. There won't be extra notice when parts of functions and inner structure are changed, please take the actual product as the standard. The manufacturer does not assume any legal responsibility for the faults and omissions in the user guideline.

1. Product Functions & Parameters

1.1 Product Functions

Geo-Fence, Lower Power Alarm, Vibration Alarm, Displacement Alarm, Location Query,

Historical Traces Playback and more.

1.2 Product Parameters

GSM Features	Communication Chip	●		ARS 1603	
	Communication Band	●	LTE/4G	LTE-FDD:B1/B3/B5/B8	
				LTE-TDD:B34/B38/B39/B40/B41	
			GSM/EDGE/2G	900/1800 MHz	
	SIM Card	●		Standard SIM Card	
GPS/BD Positioning Features	Positioning Chip	●		ZKMicro	
	Positioning Method	●		BD+GPS	
	Cold Start	●		Average. 30 Seconds	
	Hot Start	●		Average. 1 Second	
	Tracking Sensitivity	●		-162 dBm	
	Capture Sensitivity			-158 dBm	
	Positioning Antenna	●		Built-in Antenna	
	GPS Bands	●		L1: 1575.42±1.023MHz	
	Beidou Bands	●		B1: 1561.098±2.046MHz	
	Satellites Channels	●		136	
	Accuracy	●		Precise Positioning ＜ 5m	
	Timing Accuracy	●		20ns	

Speed Accuracy	●		0.1m/s CEP
Maximum Acceleration	●		4g
Maximum Speed	●		515m/s
Maximum Height	●		18000m

Important note: This product only supports installation and use within the voltage tolerance range. All consequences caused by illegal installation and use outside the voltage tolerance range shall be borne by the user!

2. Product Accessories & LED Indicator

2.1 Product Accessories:

Standard: Tracking Device / Charging Cable / Quick User Guideline

2.2 LED Working Status

2.2.1 Yellow LED (GSM Signal Status)

LED Status	Description
Slowly Flickering	GSM Initialization
Fast Flickering	Failed Reading Card
On	GPRS Communication is normal/has been online
Off	GSM Sleeping / Disconnect with power

2.2.2 Blue LED (GPS Signal Status)

LED Status	Description
Slowly Flickering	GPS Searching Signal
Fast Flickering	GPS Chip doesn't work
On	GPS Positioned
Off	GPS Sleep/ Disconnect with Power

2.2.3 Red LED (Charging Signal Status)

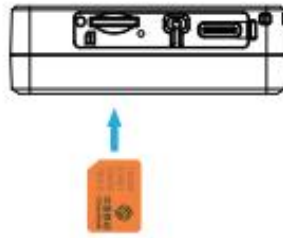| LED Status	Description
On	Charging
Off	Charging Complete

3. Installation Description

3.1 Preparations Before Installation:

① Open the box and check if the device model is correct and the accessories are complete,

otherwise please contact your dealer.

② SIM card selection, the terminal needs to insert a GSM SIM card. (GSM network

is universal)

③ To install the SIM card, insert the SIM card with the missing corner of the SIM

card facing inward and the chip facing the USB port.

Notes：(1) Before installing or removing the SIM card, please cut off the power supply of

the terminal;

(2) The terminal SIM card needs to activate the GPRS function;

SIM Card Installation Picture

> Device Faces Up
> Unfold Rubber Plug
> Chip of Card Faces Down
> The notch of the card faces
the device

3.2 Installation

The terminal installation method is recommended to be hidden installation, and the hidden

installation of terminal equipment is recommended to be installed by a professional

organization designated by the dealer. Note the following:

① Concealed installation, pay attention to waterproof.

②Avoid placing it with emission sources, such as reversing radar, anti-theft devices and

other vehicle-mounted communication equipment.

③The device has a built-in GSM antenna and GPRS antenna. When installing, make

sure that the GPS receiving surface (the surface without a label is the GPS antenna

surface) is upward (toward the sky), and there is no metal shielding above it.

Suggested Installation Location:

⑴ The hidden place in the decorative frame under the front windshield of the car;

⑵ Hidden places around the front dashboard of the car (the skin is non-metallic);⑶ Under

the trim panel under the rear windshield of the car;

⑷ Inside the car door or center pillar;

⑸ A hidden place in the dashboard of an electric car/motorcycle or under the rear seat.

Car Installation Diagram:

Optimum mounting position
Under the front windshield, under the steering wheel, above the glove box, please make sure the front is facing up

Optimum mounting position
Please make sure that the rear windshield is installed with the plastic plate facing up

Alternate installation location
Trunk (not recommended) , please note the front side up

Steps for the correct use of the product: installation→startup→setting→registration

Installation：When installing, make the GPS antenna face the sky, and the place above the installation location must be covered by materials that do not absorb electromagnetic waves (such as metal, explosion-proof insulation film).

Power On：Install the SIM card in the correct direction, connect the line according to the terminal wiring diagram, and then turn the power switch to turn on.

Registration：The registration method depends on the dealer's platform, and the registration method is also different. Please consult the dealer.

4. SMS Instruction Description and Usage Method:

When using a mobile phone to send a short message code to the SIM card number of the GPS vehicle communication terminal, the space bar is the space bar. The comma in the following SMS command format is the English input status format, and the letters are case-sensitive according to the command requirements.

Functions	SMS Command Format	Command Reply	Command Error reply
Equipment query equery	sta	PRO[JT808]VER[TA100_TEST_20210826_133242]IMEI[866248053048375]ICCID[89860040191623719956]CSQ[21]NET[1]GPS[1]RF[0]IP[103.44.239.151:8018＞FIP[183.44.239.151:8018]GPS[on]	
Vibration Alarm Switch	Fortify SMS Command： 111# Disarm SMS command： 000# SMS Command： DEFMODE#	Set Vib Alarm Manual OK! Set Vib Alarm Manual OK! DEFMODE,0#	
Upload interval settings	SMS Command： FREQ,30,180# Query Command：FREQ#	FREQ,30,180#=Success! FREQ,30,180#	FREQ,30,180#=Err!
Fuel and electricity	SMS Command： RELAY,1#	Set relay ok !	

settings	Query Command ： RELAY#		
Restore oil and electricity settings	SMS Command： RELAY,0# Query Communication： RELAY#	Clr relay ok!	
APN setting/query	SMS Command：APN， CMMTM# Query Command：APN#	APN,CMMTM#=Success! APN,cmnet,,#	APN=cmmtm #=Err!
Overspeed Alarm	SMS Comand：SPEED,80# Query Sommni：SPEED#	SPEED,80#=Success!	SPEED,80#=E rr!
IP Setting	Main IP SMS Command： IP,103.44.239.151,8018# 2nd IP SMS COOD¥： FIP,103.44.239.151,8018# Query location： SMS Command：IP#、FIP#	IP,103.44.239.151,8018＝Success ! FIP,8.135.143.12,5075=Success! IP,8.135.143.12,5075,0# 、 FIP,8.135.143.12,5075,0#	IP,103.44.239. 151,8018=Err! FIP,8.135.143. 12,5075=Err!
Restart	SMS Command：RESET#	RESET#=Success!	RESET#=Err!
Restore Factory Settings	SMS Command： FACTORYALL#	FACTORYALL#=Success!	FACTORYALL #=Err!

5. Device application operation

① Log in to the location service platform

Users can log in to the global positioning service platform provided by the dealer to check the location and status of the vehicle, and perform corresponding operations. For the service platform website, please consult your dealer.

② Download mobile client application to query

6. Troubleshooting

6.1　After the terminal is installed for the first time, it has been unable to connect to the background server, and the background display is not online. Please check the terminal installation:

When operating the terminal, if you feel abnormal, please refer to the following problems and solutions; if you still cannot solve the problem, please contact the dealer.

Common Issues	Problems	Solution
Poor signal reception	When using terminals in areas with poor reception, such as near high-rise buildings or underground parking lots, radio waves cannot be effectively transmitted	Use the terminal in a location with good signal
The first installation platform shows that it is not enabled	Is the main power cord wiring correct?	Do not install on the car's internal control line
	SIM card is not well installed	Check SIM
	LED indicators status	Check if the indicator light is flashing or always on
	The SIM card has not activated the GPRS function	Please contact the service provider to activate GPRS
The location of the platform map is incorrect	GPS has not been located	Please go to an open outdoor place for positioning
	The vehicle is stationary after the terminal is installed	Drive the car on the road for a few laps

	Is the ACC line connected?	Connect the terminal and insert the car key to open the ACC
The platform shows that the main power is disconnected	Poor contact of the power cord	Check if the power cord of the device is properly connected
Platform shows offline status	SIM card arrears or GPRS cancelled	Please check the SIM card status
	Weak signal in dropped areas	Please go to a place with strong signal and try again

Warranty Card

Special statement:

1. If there are any technical changes to this product in the future, we will not notify you otherwise.

2. If the appearance and color of the product are changed, the actual product shall prevail.

3. The warranty card is only applicable to the three-guarantee service of the IMEI number machine listed below.

4. Please keep this maintenance card in a safe place. Please show this card and the original purchase receipt during the warranty period.

5. Please refer to the table below for specific warranty coverage.

This card is the basic certificate of warranty, please fill in this card carefully and keep it properly.

User Name		Phone Number	
Address			
Product Model		IMEI Number	
Purchase Date		Invoice Number	
Distributor Name			
Distributor Address			
Distributor Number			
1. Since the date of purchase, non-man-made damage is guaranteed for one year; **In one of the following situations, it is not covered by the warranty but can be repaired for a fee;** **(1) Exceeding the warranty period.** **(2) Damage caused by disassembly or repair without authorization of our company.** **(3) Soaking in water and burning the circuit board.** **(4) Damage caused by improper installation, use, maintenance and storage.**			

(5) Product shell damage caused during use.

(6) The IMEI number inside the product has been torn out or blurred.

(7) The warranty certificate does not match the product model or the warranty certificate is altered.

(8) Damage caused by force majeure.