

3G GPS Vehicle Tracker

(GPS+WCDMA+SMS)

User Manual

(Version 1.0)



This user manual has been specially designed to guide you through the functions and features of your GPS vehicle tracker.

1.Start Guide

1.1 Accessories:

- ◆ Device
- ◆ Power cord
- ◆ Relay (Optional)
- ◆ Microphone
- ◆ SOS alarm cable & button
- ◆ User Manual

1.2 Main Functions

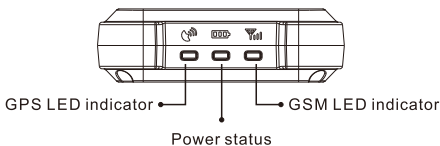
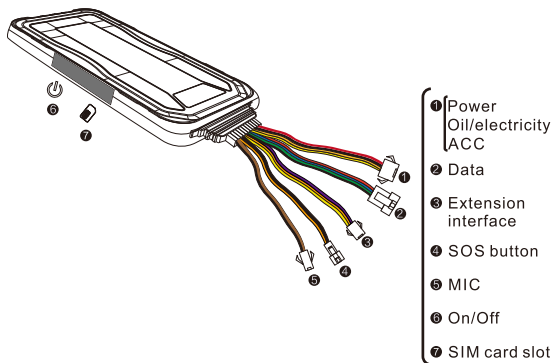
- ◆ Real-time tracking
- ◆ Vibration/Displacement/Low battery/Power off alert
- ◆ SOS
- ◆ ACC detection
- ◆ Geo-fence
- ◆ Mileage
- ◆ Air update
- ◆ AGPS locating
- ◆ Remotely control electricity/oil
- ◆ Analogue input
- ◆ Output control
- ◆ Digital input

1.3 Specifications

Frequency	WCDMA 850/900/1900/2100MHz
	GSM 850/900/1800/1900MHz
Networks	WCDMA/EDGE/GPRS
Operating Voltage	9-36VDC<300mA
Location Time	Cold Start: <35s
	Hot Start : <2s
Location Accuracy	<10 meters
Operating Temperature	-20°C — +70°C
Dimension	98.5(L) x 52(W) x 15(H) mm
Weight	80g

1.My device

2.1Appearance:



2.2 LED indicators:

GPS LED Indicator - Blue	
Flashing (interval 0.1s)	Searching GPS signal
Solid blue	GPS positioned
OFF	GPS sleep or off

GSM LED Indicator - Green	
Quick flashing (interval 0.1s)	GSM initializing
Slow flashing (flash 0.1s every 2s)	Receive GSM signal normally
Solid green	Connected to GPRS network
OFF	No GSM signal or SIM card

Power Status - Red	
Flashing (interval 0.1s)	Low battery
Slow flashing (interval 2s)	Full charge
Slow flashing (flash 0.1s off 2s)	Normal operating
Solid Red	Charging
OFF	Low battery/Power off

Note:

Defense Status

The device is in defense status if blue, red and green indicator flashed in a loop.

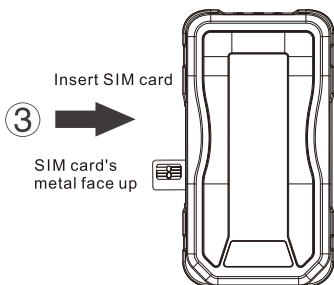
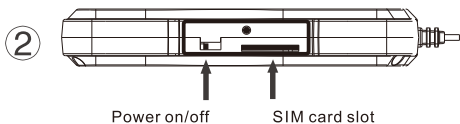
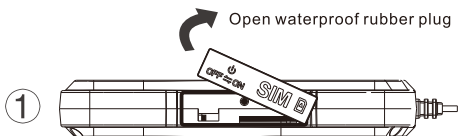
3. Installation

3.1 Install the SIM card:

Notice :

SIM should be inserted correctly.

SIM card should have GPRS service.



3.2 Device Wire Definition:

Picture 1

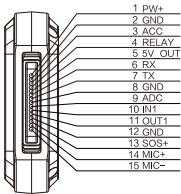


Table 1

Line	Color		Description	Definition
1	Red	PW+	12V/24V car battery positive	
2	Black	GND	12V/24V car battery negative	
3	Orange	ACC	ACC ignition	
4	Yellow	RELAY	Relay	
5	Red	5V-OUT	External power supply	
6	Blue	RX	Data receiving / backup interface	
7	Green	TX	Data sending/ backup interface	
8	Yellow	RELAY	Relay	
9	Purple	ADC	Extended Interface	
10	Orange	In1		
11	Yellow	OUT1		
12	Black	GND	SOS button	
13	Orange	SOS+		
14	Brown	MIC+	Microphone	
15	Black	MIC-		

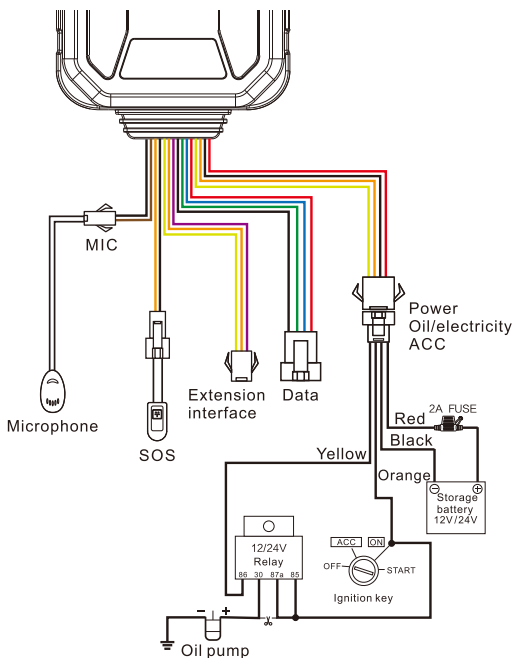
Relay wiring instruction :

Relay wiring way of oil pump open circuit: On each end of the wire is thin white line (85) and thin yellow line (86). Thin white line (85) connects to the positive side of battery (12V) while thin yellow line (86) connects to the device relay control. There is an oil pump in the vehicle. Cut off the positive line. The positive side of oil pump connects to the close-end of relay.(Thick green line 87a), and the other side connects to relay's common(green thick 30).

Notice :

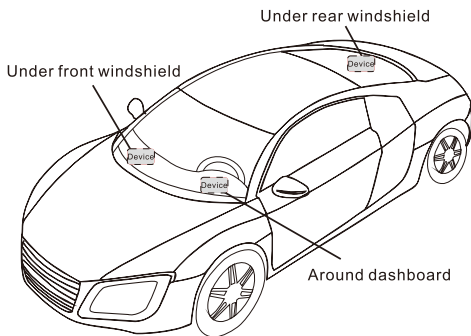
12V relay is standard. The device is suitable for vehicles with 12V battery. If the vehicle has 24V battery, then 24V relay is needed.

3.3 Device Wiring Way:



- 1)The standard power supply ranges from 9V to 36VDC. Please use the power cord manufactured by the original factory. Red line means positive side while black line means negative side. During installation, negative side should connect to the ground.
- 2)ACC line (orange) connects to vehicle's ACC, detecting ignition and flamout.
- 3)Device's oil and electricity control line (yellow) connects to relay's 86. (thin yellow line of relay socket)

3.4 Device Installation:



Note :

The device should face up to the sky

Metal thermal barrier or heating layer of the windshield affects the signal. Please change installation places to receive better signal.

4. Operation of device

Power on/ Power off

Power on: Once insert a valid SIM card and connect all the wires, turn on the device, then Power LED will flash first, During signal searching process, GSM LED and GPS(blue) LED will flash. Once Blue GPS LED keeps solid light, it means the device has been located and it starts to work.

Power off: Just turn off the power switch.

Notice:

When device is connected with external power, please turn on the battery switch. The battery will then connect with the device circuits and its built-in battery will be charged. If battery is OFF, battery can't be charged. The device will be power off if no external power supply.

5. Main Functions

5.1 SOS

In emergent case, press SOS for 3s to activate SOS alarm. Then the device will send SOS SMS to preset specific numbers and then dial the numbers in circles until the call is picked up.

5.2 Power cut-off alarm

When the electricity supply of device is cut off, it will activate cut-off alarm.

5.3 Low battery alarm

When battery is low, the device will send low battery alarm, which will also be uploaded to the platform.

5.4 Displacement alarm(default OFF)

When ACC is off, device will send displacement alarm if the vehicle moves out the pre-set distance.

5.5 Vibration alarm(default OFF)

When vehicle is in defense mode and it vibrates several times, the vibration alarm will be triggered. If no ignition after 3 minutes (ACC remain OFF), the device will send vibration alarm message immediately.

5.6 Voice monitoring

Use pre-set SOS number to dial the device, after 10 seconds, device changes to monitoring mode automatically. The caller can then hear the noise inside the vehicle. Device won't be in monitor mode when non-SOS number call in.

Notice:

- 1.Pre-set SOS number is necessary.
- 2.SIM card of device must have caller ID service.

5.7 Oil/Electricity cut-off

When vehicle is stolen, oil/electricity cutoff command can be sent by platform or APP.

Notice:

- 1.Make sure ACC is correctly connected.
- 2.For vehicle and passenger's safety, the device won't cut off oil/electricity until the vehicle's speed is less than 20KM/H or GPS is positioning while the vehicle keeps still. If there conditions are not met, the device will delay the command.

5.8 Restore oil/electricity

When alarm cancelled, user can send restor oil/electricity command by platform and APP and resume the vehicle power again.

5.9 Restart device

If GPRS is abnormal (device if offline even parameters are right,etc.), user can send SMS message command to restart the device.

6. Platform Operation

Just login the designated APP or service platform provided by the dealer, make device bound and you can easily search and set parameters.

6.1 Login service platform

Please login the designated service platform to set and operate the device.

6.2 Download APP

Please download and install the APP in designated website.

7. Common Command List

Edit SMS command in the right column to the device SIM number to achieve respective function as below:

1	Device status	STATUS#
2	Device coordinate	WHERE#
3	Location URL	URL#
4	Device address	POSITION
5	SOS setting	<p>1, Add SOS number: SOS,A, number 1, number 2, number 3#</p> <p>2, Delete subjected sequence of SOS number:SOS,D,number sequence 1, number sequence 2, number sequence 3# Example: SOS,D,1,2,3#</p> <p>3, Delete the SOS number : SOS,D, <phone number#</p> <p>4, Query SOS number : SOS#</p>
6	GPS data upload time interval	<p>TIMER,T1,T2#</p> <p>T1=5~18000 seconds ; ACC ON upload interval ; default value : 10</p> <p>T2=5~18000 seconds ; ACC OFF upload interval ; default value : (when GPS is not sleep)</p>
7	GPS data upload distance interval	<p>DISTANCE,D#</p> <p>D=0、50~10000 meter ;</p> <p>Distance interval ; default value : 300, unit : meter ;</p>
8	Delayed defense setting	<p>DEFENSE,A#</p> <p>A:1~60 minutes, set delayed defense, default value : 10 minutes</p>
9	Vibration alarm (default OFF)	<p>1, SENALM,ON#</p> <p>2, SENALM,OFF#</p>
10	Displacement alarm setting(default OFF)	<p>1, MOVING,ON,R,#</p> <p>R=100~1000; Displacement radius, unit: meter Example: MOVING,ON,200,#</p> <p>2, MOVING,OFF#</p>
11	Power/oil control	<p>RELAY,A#</p> <p>A=0/1 ; 0: power on, 1: cut off power ; default value : 0</p> <p>Example: RELAY,1#</p>
12	Restart	<p>RESET#</p> <p>Device restart 20 seconds after receiving this command</p>

8. Trouble shooting

If you are having trouble with your device, try these troubleshooting procedures before contacting a service professional.

Problems	Causes	Solutions
Poor signal	The signal waves unable to transmit when use the GPS tracker in the places that have poor signal reception, such as: tall building around or basement.	Using the GPS tracker in the places that have good signal condition.
Unable to boot	Low battery	Insert the GPS tracker into the vehicle OBD interface to charge.
Unable to connect to the network	Poor signal	Using the GPS tracker in the places that have good signal condition.
Unable to locate	Signal shielded or Poor signal	Change the installation place
No power off alarm	Built-in battery is off	Turn it on
Fail to start the car	Power cutoff / ACC abnormal	Restore power/Check ACC
Car stops driving	Abnormal power supply	Connect the device negative electrode to constant power
Offline/ Indicators off	Abnormal power supply/Indicators sleep	Check power supply/Press side key to activate indicators
No update of vehicle's location	No GPS positioning	Test the device again/ Change installation place

Warranty instructions and service

1. The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of original invoice indicating the date of purchase, model and serial No.of the product. We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer.
2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product itself.
3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.
4. Repair or replacement under the terms of this warranty does not provide right to extension or renewal of the warranty period.
5. The warranty is not applicable to cases other than defects in material, design and workmanship.

Maintenance Record

Date		Serviced by	
Product Model			
IMEI Number			
Fault Descriptions			
Comments			