



Shenzhen Qianfeng Communication Equipment Co., Limited

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Vehicle GPS Tracker

Instruction Manual

Product model: QS119

Version number: V1.0



Please read this instruction manual carefully before using the product and keep it in a safe place.



Warning

1. Please pay attention to be waterproof for electronic products. Do not contact the equipment with the liquid, or operate with wet hands.

2.  Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer or service operator where the product was purchased. They can take this product for environmental safe recycling.

3.

Part Name	Hazardous Substances or element					
	Pb	Hg	Cd	CR(VI)	PBB	PBDE
Cabinet assembly	○	○	○	○	○	○
Cable assembly	○	○	○	○	○	○
Lithium battery	×	○	○	○	○	○
Plastic and polymer	○	○	○	○	○	○
Metal part	○	○	○	○	○	○

O: It indicates that content of toxic and hazardous substance in all homogeneous material are less than specified limit by Directive2011/65/EU (RoHS).

×: It indicates that at least one content of toxic and hazardous substance in all homogeneous material is beyond specified.

This table shows the toxic and hazardous substance when manufacture this device, hazardous substance information is based on information from supplier as well as internal inspection. In some part, hazardous substance cannot be replaced with current technologies, but Qianfeng is always doing its best to improve the quality of the product.



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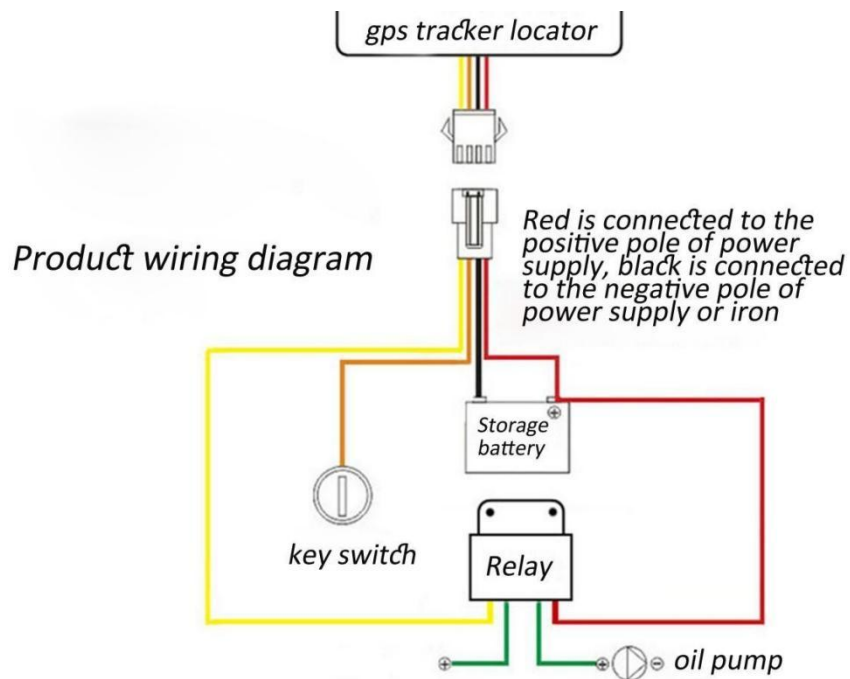


I. Product appearance



QS119

II. Product structure description





III. Product parameters

	Item	Function description	
Electricity Character	Power supply	battery power supply	
	Operating voltage	DC 9V - 95V	
	Working current	12V/ average 40mA	
	Hibernation current	12V/ less than 10mA	
	Built-in battery capacity	140 mAh (3.7V) polymer battery optional	
Environmental characteristics	Work Temp	-20℃ - 75℃	
	Storage Temp	-30℃ - 80℃	
	Work Humidity	10%-85% RH non-condensing	
Communication features	GSM module	SIMCOM 7670SA	
	Frequency band	LTE/4G	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66
		GSM/2G	850/900/1800/1900MHz
	SIM Card	Standard SIM Card	
	Communication antenna	built-in antenna	
GPS/BD Location Character	GPS Chip	Zhongke Micro AT6558R	
	Positioning method	Beidou+GPS	
	Cold start	Average 32 seconds	
	Hot start	Average 1 seconds	
	Tracking Sensitivity	-162 dBm	
	Positioning antenna	Built-in antenna	
	Antenna specifications	25mm * 25mm * 4mm	
	GPS frequency	L1: 1575.42±1.023MHz	
	Beidou frequency	B1: 1561.098±2.046MHz	
	Satellite channels	32	
	Positioning accuracy	<10m (1σ)	
	Timing accuracy	<30ns (1σ)	
	Speed measurement accuracy	<0.1m/s (1σ)	
	Maximum acceleration	4g	
	Maximum speed	515m/s	
	Maximum height	18000m	
External interface	Cut off oil and electricity	Optional features	
	ACC detection input		
Shape	Device size	90.6mm * 34mm * 20mm	
	Shape material	ABS plastic	
	IP protection level	IP67	
	Device weight	68g	



IV. Basic product functions

Content	Function	Explain
Locate function	4G all Netcom	Support 4G network, efficient transmission in 1 second, faster and more accurate.
	Regular tracking	Positioning information such as latitude and longitude according to the set interval time.
	Street view map	360 ° No dead corner HD map
	Over-speed alarm	When speeding, the locator will send an alarm to your phone
	Shock alarm	Built-in vibration sensor, the vehicle has continuous vibration, the equipment immediately sends an alarm prompt
	Electronic fence	If the car travels beyond the prescribed area, an alarm information will be sent to the platform
	Historical trajectory	You can play back 365 driving days, replay the speed at that time, direction stay time and other content
	Displace alarm	When the vehicle encounters illegal operation or theft, it can be remotely cut off through the computer or mobile phone APP
	Fleet management	One phone can manage multiple devices, or one device for multiple phones

Indicator light description

Yellow light-GSM indicator light

light status	
Flash once in 2 seconds	GSM initialization
Always on	GSM communication is normal
not bright	GSM sleep/shutdown

Blue light-GPS indicator light

light status	
Flash once in 2 seconds	Searching for satellite signal
Always on	positioned
not bright	Sleeps



V. Common problem analysis and exclusion

This product shows that the yellow and blue lights always on without flash as normal online positioning. If flashing, please analyze the fault according to the following steps.

Fault phenomenon	Fault analysis	Processing method
Blue lights flash slowly	Determine whether devices are used in areas with poor GPS signals, such as near tall buildings or underground parking lots	Drive the vehicle to a good signal position using the terminal
	Determine whether the vehicle front windshield has a metal insulation film affecting the signal reception	If there is a film, change the equipment to other vehicles to test whether the blue lights are often on. If it is fine on other membrane vehicles, it is caused by the film
	Determine whether there is a shield or a signal distractor on or around the car	If there is a shield or interference source, remove the shield or interference source and attempt to reinstall it
Blue lights flash	Chip failure	Return to the factory for maintenance
The yellow lights flash	Determine whether the SIM card is well installed	Check for the SIM card in place
	Determine whether the SIM card metal surface has dirt or poor contact	Wipe the metal chip surface with a clean cloth or plug the card several times



The yellow light flashed slowly	Determine whether the vehicle is in a mobile network such as an underground parking lot	Please drive the vehicle to places where the network signal is good and try to reinstall it
	Determine whether the server background is normal	Ask if the background management platform server is normal
	Determine whether the SIM card status is normal	Check whether the status of the card is normal through the SIM card query platform
	Determine whether there is a shield or a signal distractor on or around the car	If there is a shield or interference source, remove the shield or interference source

VI. SMS Commands

The user uses the mobile phone to send SMS command to the SIM card number of GPS device (note SIM card should be activated the text message function).

The comma in below SMS command format is in English input format, and the letters are upper and lower case according to the requirements of the instruction.

Common query functions	SMS command	Reply
Device status query	STATUS#	Reply: acc:1,sf:0,gsm:6-31,gps:1-17
Query parameter settings	PARAM#	Reply: id:863019171376959 ip:WW9006.gpsog.com 9006 apn:cmnet-user- password,phone:18201982253- ,time:10-300-300
Longitude and latitude link query	WHERE#	Google address link
restart command	RESET#	Reply: RESET OK
APN query	APN#	Reply: APN:cmnet,,
APN setting	apn123456 cmnet	
Server parameter settings	SERVER,1,domain name,port,0# SERVER,0,IP,port,0#	SET OK



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Model: QS119

Manufacturer: Shenzhen Qianfeng Communication Equipment Co., Limited

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District Shenzhen 518101

Certification: CE

Country of Origin: Made in China