



WhatsGPS

4G GPS Tracker

Model:R12L



User Manual

Statement

Thank you very much for using the R12L vehicle terminal (mobile user terminal) product. Please read this manual carefully before use. Please pay attention to all the cautions and warnings mentioned in the manual. Please keep this manual properly for reference.

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1.Product Introduction

R12L positioning terminal is feature rich a positioning terminal, wide application range. Equipment adopts AT6558R chip, support the GPS and beidou satellite system.

Equipment in addition to supporting satellite positioning, also supports single base station and base station positioning. The expansion of the rich function, can refer to the following related description about extended functionality.

Integrated with independent research and development of the hardware control circuit, makes the equipment long-term reliable and stable work, can automatically when abnormal return.

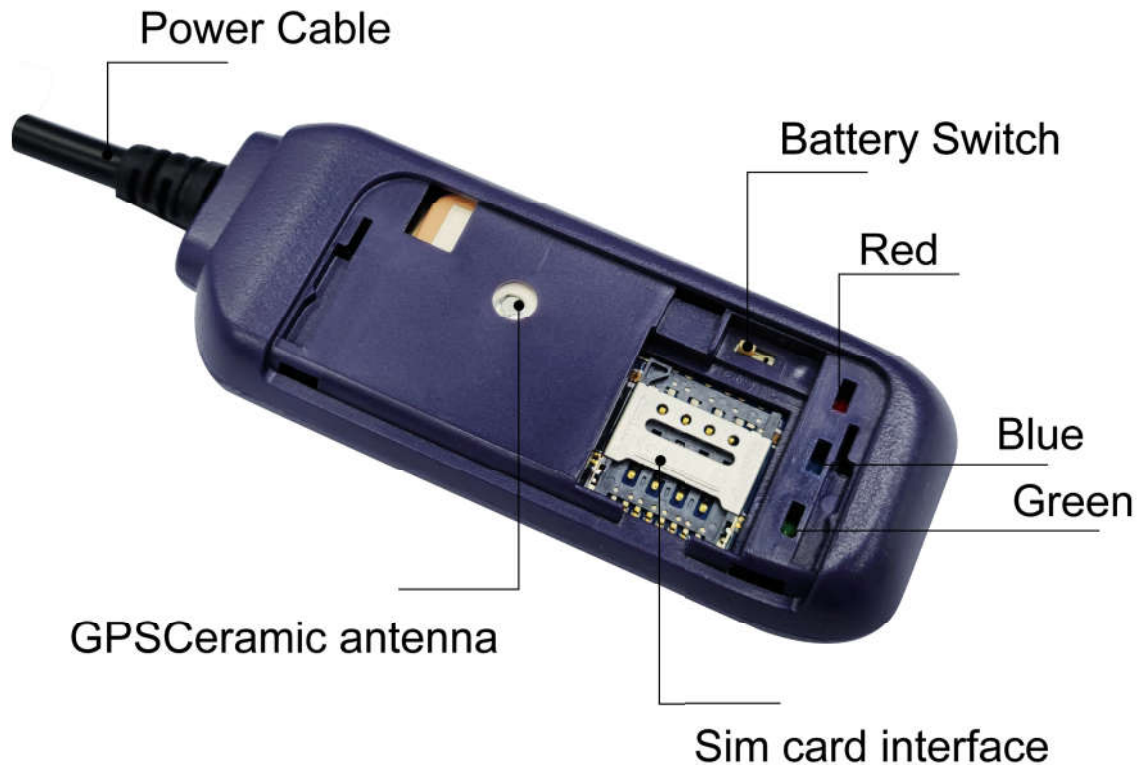
2. Main Function

- GSM quad-frequency, built-in GSM/GPS antenna;
- Chip Specification: 4G Cat1, Support 2&4G
- Support all delayed and soon to be operational global navigation satellite system GPD, Beidou
- Support global multi-base station and stallite positioning mode
- Low Voltage Input: 9-100v
- Built-in high-power surge protection circuit;
- The use of high temperature resistant safety explosion-proof type rechargeable lithium cobalt acid battey
- Built-in high-power surge protection circuit;
- Built-in hardware monitoring circuit, abnormal state automatic recovery
- Remotely oil control
- ACC Detection
- Power off Alarm
- Vibration Alarm
- Movement Alarm
- Over-the Air (OTA)
- Waterproof IP65

3. Specification

Items	Specifications	Remark
Working Voltage	DC9V-100V	
Working current	50ma @12V (static current 5mA)	Not charging
Device size	L82mm *W35mm*H14mm	
Position model	GPS+BD+LBS	
Positioning accuracy	<5 Meters	
communication network	GPRS	
LTE-FDD LTE-TDD	C: B1/B3/B5/B8/B34/B38/B39/B40/B41 EU: B1/B3/B5/B7/B8/B20 SA: B1/B2/B3/B4/B5/B7/B8/B28/B66	
GSM	850/900/1800/1900MHz	
GPRS	TCP	
Working Temperature	-20°C~ +70°C	
Working Humidity	5% ~ 95%	
Working Time	0.5h	
Warranty	1 year	

4.Appearance Diagram

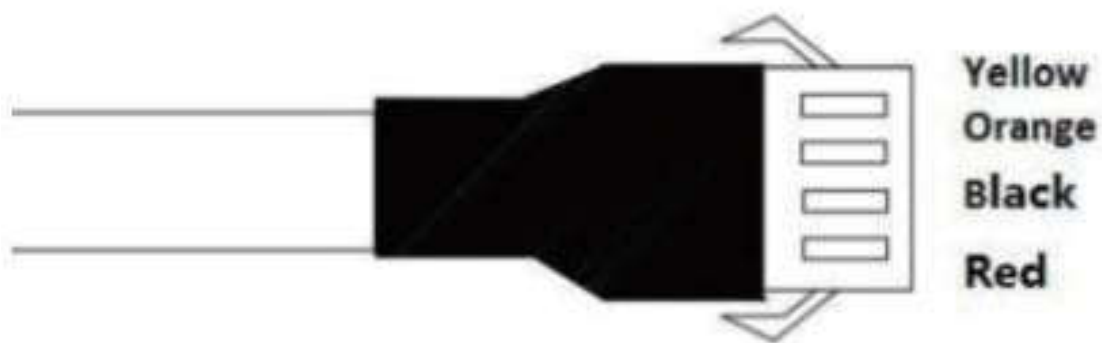


By viewing the status indicator light can understand the performance of the equipment light condition stated below:

LED Models	LED Light Status	Meaning
Blue	Fast flash	GSM initialization
	Slow flash	GSM receiving signal is normal
	Normally on	GSM/GPRS online
	Not Bright	No GSM signal received/ no card inserted
Green	Fast flash	BD/GPS signal search
	Normally on	BD/GPS Successful positioning
	Not Bright	GPS is dormant/not working
Red	Normally on	Switch on the external power supply
	Not Bright	Disconnect the external power supply

5.Install Statement

5.1.Wiring definition



End tht Difinition	Color	Instruction
MOTOR	Yellow	Cut oil wire
ACC	Orange	ACC wire
V-	Black	12V/24V Connect to Powe of 12V/24V
V+	Red	

Relay Connection Matters Needing Attention

Pump relay connection: For castor oil joints at the ends of the line (85) and thin yellow line (86). White line (85) is connected to the vehicle power supply (12 v). Yellow lines relay control line is connected to the equipment. Cut off the positive cable of the pump. Then series connected to the relay normally closed contacts (87 a) green thick line, the other end is connected to the relay COM contact (green thick line 30).

6.Setting Common Command List

6.1.Setting Common Command List

1	SERVER,8520,IP,PORT#	T: primary server IP port,F: vice server port, *: interval operator (IP forwarding only master server data)
2	TIMER,T1#	T1:ACCON Back interval

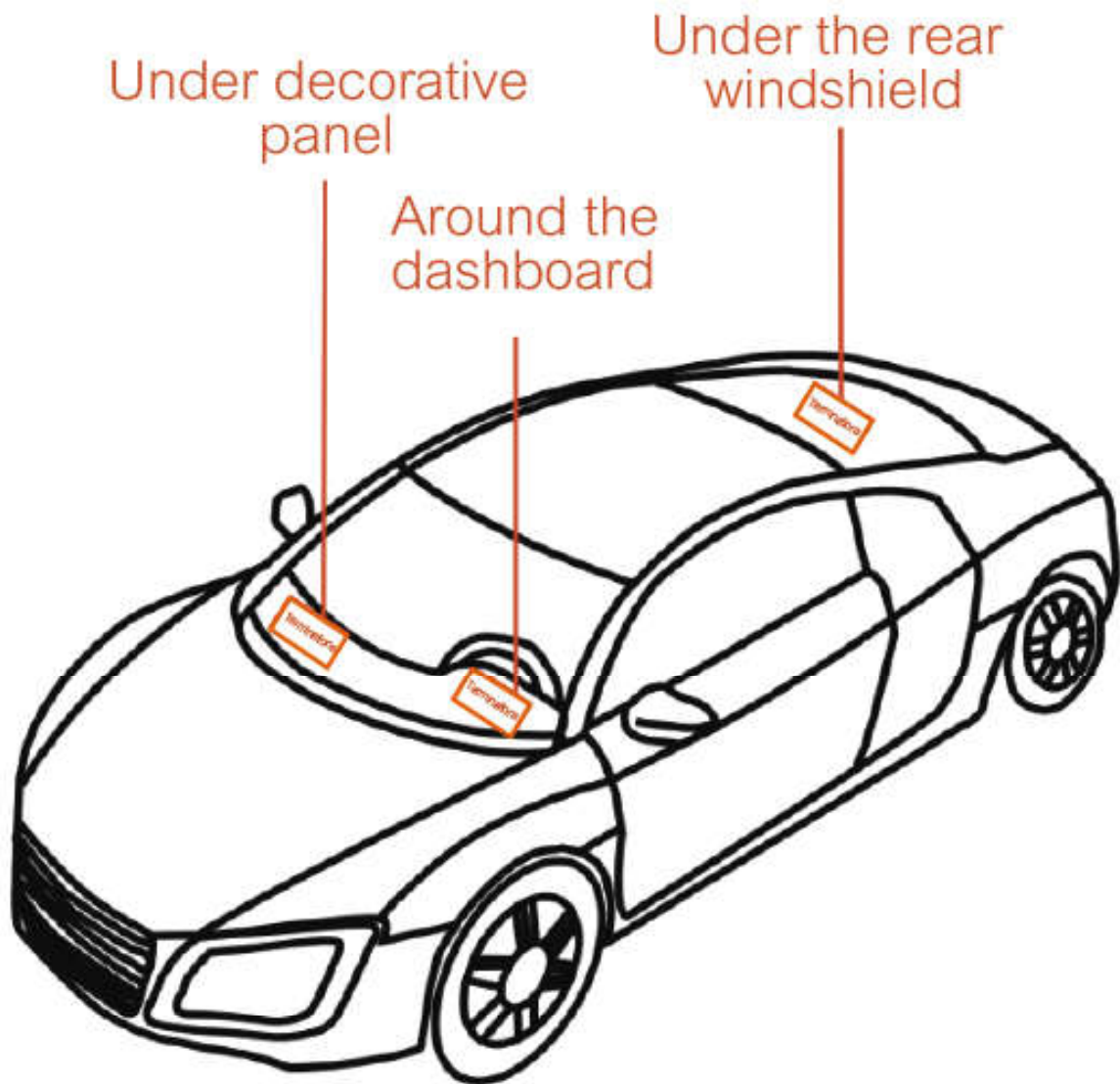
6.2. Setting Common Command List

1	STATUS#	Query Status
2	FACTORY#	Restore Factory
3	RESET#	Restart Device

6.3.Remotely cut off oil & power

1	Remotely cut off oil	RELAY,1#	When the car speed down to 20 km/H, the instruction execution success
2	Recovery oil	RELAY,0#	Recovery oil

7.Installation Instruction



8.Trouble shooting

In the operation of the terminal, if feel equipment is not normal, please refer to the following problems and solutions. If still cannot solve the problem, please contact seller or service provider.

Common Problem	Reason	Solution
Poor Reception	When terminals are used in areas with poor reception, such as near tall building or basements, radio waves cannot be transmitted effectively	Use terminal in the signal of good position
Unable to connect to the network	SIM card is not installed	Check the SIM card
	SIM card metal surface dirt	Wipe with a clean cloth
	SIM card is invalid	Contact your network service provider
	Beyond the GSM service area	Please move to the network service provider service area

Common Problem	Reason	Solution
Unable to connect to the network	Weak signal	Please move to a place with strong signal and try again
Power Off	Please confirm the equipment whether to turn on the switch	Open the battery switch equipment
	Please check the SIM is installed	Please insert the SIM card
	Poor contact	Check whether the plug is connected well

Warranty card

Maintenance record	
Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
IMEI number	
Maintenance person	

Maintenance record	
Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
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Maintenance person	

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.