

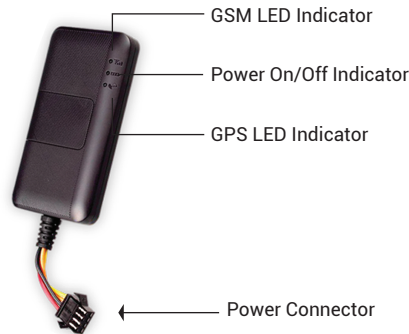


GECKRAM G-TRACK device layout, instructions and specifications.

Inside the Box

- Device
- Charging Cable
- Immobilizer
- User Manual

1. Overview



2. LED Indications

Power indicator (red)	Indication
Quick Flashing (flash 0.3s at interval of 0.3s)	Low battery
Solid red	Charging
Flashing (flash 1s at interval of 3s)	Full charge
OFF	Power off or low battery
Slow flashing (flash 0.1s at interval of 3s)	Working normal

GPS indicator (blue)	Indication
Flashing (ON:0.3S, OFF:0.3S)	Acquiring GPS signal
Slow flashing (flash 0.1s at interval of 3s)	GPS Signal OK
OFF	No GPS Signal

GSM indicator (green)	Indication
Quick Flashing (flash 0.3s at interval of 0.3s)	GSM initializing
Flashing (flash 1s at interval of 3s)	GSM Signal OK
Solid green	In communication with phone
OFF	No GSM signal or no SIM card
Slow flashing (flash 0.1s at interval of 3s)	GPRS connection OK

3. Specification

Dimension	78.0(L) x 41.0(W) x 13.0(H) mm
Weight	38g
Voltage range	9-90V
Backup Battery	270mAh / 3.7V

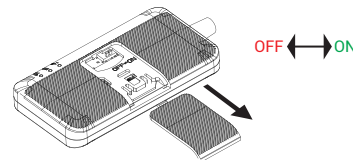
Operation Temperature	-20°C - 70°C
Humidity	20% - 80%
Standby Time	60 hours
GSM Frequencies	850/900/1800/1900 MHz
GPRS	Class 12, TCP/IP
GPS Channel	32
GPS Sensitivity	-162dBm
Acquisition Sensitivity	-148dBm
Position Accuracy	5m
TTFF (Open Sky)	Cold Start: <35s Hot Start: <1s
GSM/GPS Antenna	Built-in
LED Indicator	GSM-green, GPS-blue, Power-red
Data Transmit	TCP, SMS
Geo-fence Alarm	Alarms when it gets in or out of the specified area
Speeding Alarm	Reports when the speed exceeds the pre-set value
Low Power Alarm	Alarms when backup battery is running out
Non-movement Detection	Movement alarm based on built-in 3D motion sensor
Mileage Report	Track by time/distance interval
Immobilizer	Cut off petrol/electricity

4. Getting Started

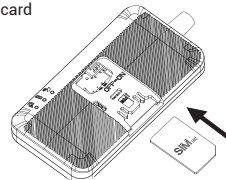
4.1 Switch on

Get started by assembling and setting up your device for its first use.

1. Open SIM Card cover

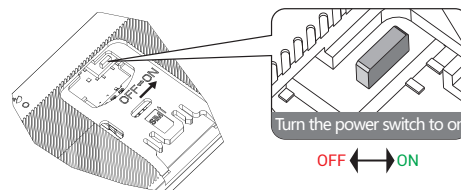


2. Insert SIM card

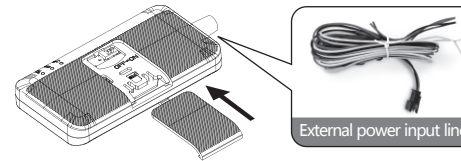


NOTE:
Unit is open line, works with post paid and pre paid SIM card.

3. Power on

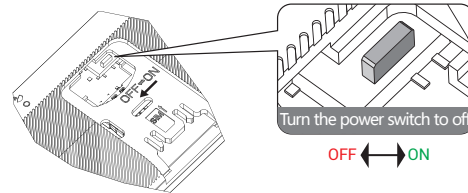


4. Close the SIM card cover and connect the device with the external power line which will be used to charge the terminal and built-in battery.

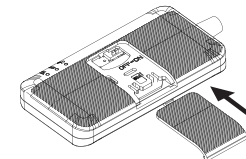


4.2 Switch off

1. Take the SIM card out and turn power off.

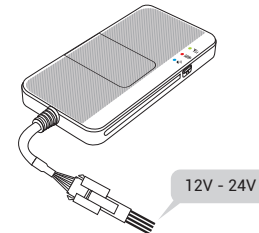


2. Close the SIM card cover and cut external power off.



4.3 Charge the device

Plug the device connector into a charging cable. The charging cable comes with 2A FUSE for short-circuit over current protection.



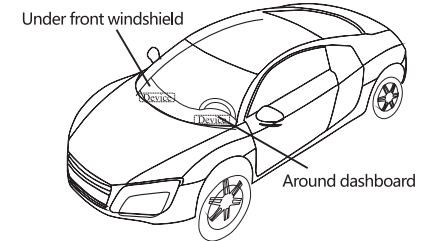
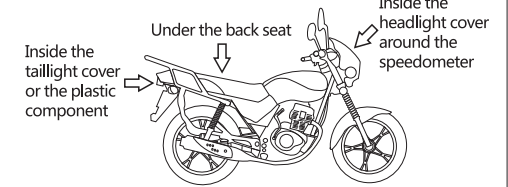
Improper connections of the charging cable can cause serious damage to the device. Any damages caused by misuse will not be covered by warranty.

4.4 Install the device

Find a place in your vehicle where it can't be easily found and have access to power in a dry safe place.

1. Your device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up; any high power devices such as reversing radar, anti-theft device or communication equipment would affect the signal of the device.
2. All metallic cases of the windshield will attenuate the signal on the tracking device. It's simply due to the shielding effects of the metal compound of the case.
3. The device should be fixed into position with cable ties or wide double-sided tape.

Installation please refer to pictures below.

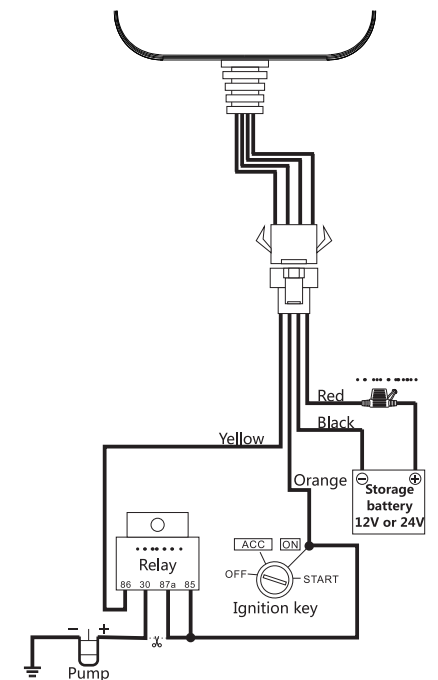


- Under the dash board below the front windshield;
- In the parcel shelf in the rear;
- In the front bumper (non-material face), make sure the device will not get wet
- Under the wiper version (non-metal), make sure the device will not get wet
- Non Covert Installation - fix the device on the dashboard below the windshield

Device Wiring

1. The standard voltage is 9V-36V, the red wire is the positive and the black wire is the negative.
2. Connect the black wire to ground.

4.5 Device wiring diagram



4.6 Power/ACC/Tele-cut off(petrol/electricity) control line (4 pin)

1. Your device comes with a power cord and is designed to use only manufacturer-specified original device. The red line is positive while the black one is negative (the side should not be connected with ground wire).
2. The ACC line (orange) connects to ACC switch of the vehicle. Please be sure to connect the ACC line; otherwise the device won't enter ignition detection status when disconnect the ACC line. If you don't need to anti-theft temporarily, just connect the ACC line to the positive side in parallel.
3. Tele-cut-off (petrol/ electricity) control line (yellow) is connected to pin 86 of the Tele-cut-off (petrol/electricity) relay (equal to the yellow line of the relay socket).

5. Quick Operation Instructions

To properly use the device, common parameters should be set before initial use. This can be done by using the parameter editor or by sending SMS commands to the device. (", "should be English comma and no space before and after the comma)

5.1 Add SOS number

SMS command to the device to add the SOS number.

SOS,A,No.1,No.2,No.3#

"A" means to add new numbers, for example:

SOS,A,09175556666,09174445555,09179993333#

It will reply

"OK! SOS1: 09175556666 SOS2: 09174445555 SOS3: 09179993333" after set up.

5.2 APN setting

To ensure GPRS is activated, please make sure APN is correct. You can send SMS command to set APN:APN command format:
APN,APN's Name# E.g: APN,internet# "(internet" is the APN of carrier)
The device will reply "OK" if successful.

Note: The APN of some countries have user name and password, you may need to send SMS commands as follows: **APN,APN name,user name,password#**

5.3 Set the center number (Owner Number)

If you want to cut off/restore electricity by SMS command, you have to send center number first. Only the center number can send the cut off/restore oil command to the device. You can set your own mobile number as center number.

The command for setting center number is:

CENTER,A,mobile number#

E.g. **CENTER,A,09178885555#**

If set successfully, there is an "OK" reply message.

NOTE:
Only the SOS number can be used to add or delete center number. There is only one center number that can be set.

5.4 Locator Data Interval

Users can modify GPRS uploading time interval via SMS.

TIMER,T1,T2#

T1 ranges 5~18000 or 0(seconds), upload interval when ACC ON, 0 means no upload, default is 20;

T2 ranges 5~18000 or 0(seconds), upload interval when ACC OFF, 0 means no upload, default is 20.

5.5 Arming time setting

Delay time for device entering arming state after the vehicle power is off and ACC is in low-level. In the arming state, if the vehicle vibrates for a few times, it will activate the vibration alarm system. If the vehicle battery is still not on (ACC is in low level) after 3 minutes, the device will start vibration alarm.

SMS format:

DEFENSE,TIME#

The time ranges from 1 to 60 minutes, default is 1.

5.6 Check parameter setting

You can check the parameter setting by command:

PARAM#

Example: **PARAM#**

Information replied:

IMEI:358735070292023; TIMER:20,20; SENDS:3; SOS:,;

Center Number;; Sensorset:10,3,5,1; Defense time:1;

TimeZone:E,8,0;

The replied information contains IMEI number, GPS data upload Interval, GPS working time, SOS number, center number, sensor time interval, defense time and time zone info.

5.7 Check GPRS parameters

SMS command format:

GPRSSET#

Example: **GPRSSET#**

Reply message:

GPRS:ON; Currently use APN:http.globe.com.ph,;; Server:0;

119.28.187.174,9010,0;

URL:http://maps.google.com/maps?q=;

6. Operation of device

6.1 Power on/ Power off

Power on: Once a valid SIM card is inserted and all the wires are connected, turn on the device. Power LED should flash. Once GPS LED keeps flashing slowly, it means the device has been located and will now work.

Power off: Just turn off the power switch

The device will upload its position in the server once a valid SIM card is inserted and the power is on. It will upload data to server every 10 seconds.

NOTE:
To turn it OFF/ON, please remove the back cover first and refer to **4. Getting Started.**

6.2 Check location

1. Via GECKRAM G-TRACK APP

Use your Geckram G-Track APP, Download for free in Google Play and APP Store.

2. Via SMS

1.1 Send **WHERE#** to the SIM number of the device. The device will send back a location message. You can get the coordinates. If the device could not acquire GPS location, it will send "No data."

Example:

Current position!

Lat:N22.577156,Lon:E113.916748,Course:131.99,Speed:0.

00Km/h,Date

Time:2013-10-08 17:35:32

1.2 Send **"URL#"** to the SIM number of the device. The device will send a Google Map link location. If the device could not acquire GPS location, it will send "No data."

Example:
<10-08
17:36>http://maps.google.com/maps?q=N22.577156,E113.916748

6.3 Wire cut-off alarm

When the power supply to the device is cut off, it will activate cut-off alarm. In this case, the device will send related SMS to the SOS nos. and dial the numbers in circles. If nobody answers, the call just keeps 3 loops at most. At the meantime, the device will upload power cut off alarm data to the server. And it will send:
Cut Power!<Date Time:13-06-17 14:53:06>
http://maps.google.com/maps?q=N22576713,E113.916585

NOTE:
The SOS numbers should be preset, please refer to **5.1.**

6.4 Low battery alarm

When the device is only working with battery, once the internal battery voltage is less than 3.7V, the device will send a low battery alarm SMS to SOS number and will alarm on application.

Low battery alarm SMS content

example:"Attention!!!Battery is too low, please charge."

Which means the battery is too low, inform user to charge the unit.

NOTE:
The SOS numbers should be preset, please refer to **5.1.**

6.5 Vibration alarm

The vibration alarm function is off by default. To activate this function, please send the following command:

SENALM, ON#

ACC OFF & in arming state

If 5 times (times can be set) of vibration detected in 10 seconds, 1) ACC OFF in the following 30 seconds, the device will send vibration alarm. 2) ACC ON in within 30 seconds, no vibration alarm will be triggered.

NOTE:
1. The SOS numbers should be preset.
2. Send **"SENALM, OFF#"** to turn off the vibration alarm if don't need.

6.6 Activate Immobilizer

Via SMS

First, you should set a center number. Please refer to **5.4**. Only center number can send the command to the device to cut off and restore electricity. The format is: **RELAY,1#**
After the command is carried out, it will reply "Cut off the fuel supply: Success! Speed:0 Km/h". If the command didn't carry out, it will reply the reason about fail to carry out.

NOTE:
To ensure the safety of the driver and the car, this command is valid only under two conditions: the GPS is located; the speed is less than 20km/h.

6.7 Deactivate Immobilizer

Via SMS

Only center number can send the command to the device to restore electricity. The format is: **RELAY,0#**
After the command is carried out, it will receive "Restore electricity supply: Success!"

6.8 Over Speed Alarm

When the car is moving over the speed limit in average within the specified time, then the device will send over speeding alarm SMS to user

SMS command:

SPEED,ON,Time,Limited speed,way of alarm#

Time range (Second) : 5-600s (default as 20s).

Limited speed range (km/h) : 1-255, default: 50.

Way of alarm: 0, GPRS only; 1, SMS+GPRS; default: 1.

Example: **SPEED,ON,10,120,1#**

Means when the car is moving over 50km/h in average within 10 seconds, the device will send over speed alarm to user.

6.9 Restore to factory setting

SMS command format: **"FACTORY#"** to set all parameter to default factory value. Once received "OK! The terminal will restart after 60s!", it succeeds.

6.10 Reboot device

When there is something wrong with the link of GPRS, e.g., the parameter setting of the device is correct, but you can't track the car on the platform. At this moment you can send a command to the device to reboot the device.

The format is: **RESET#**

After receiving this command, the device will reboot after 20 seconds

7. Troubleshooting

Problems	Causes	Solution
Red LED does not work when power is connected	Fuse busted	Replace fuse
Fail to connect network	Wrong installation of SIM card	Check SIM card installation (4.1 Install SIM card)
	Dirt on the SIM card iron surface.	Clean
	Damaged SIM	Contact Service Provider
	Improper installation	Check installation of device(4.4 Install the device)
Fail to charge	Out of GSM service area	Locate a good area with GSM signal
	Voltage not sufficient	Connect to sufficient power supply
	Improper connection	Check connection

GECKRAM G-TRACK User Manual

Scan to download Geckram G-Track App.



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