T360-101A User's Manual

For simple and cheap solution

2014-03-06

MENU

1.Product profile

Thank you for choosing T360-101A GPS tracker, please finish reading the following instructions before installation.

T360-101A satellite positioning system is easy-operating, full-featured, which provides location and tracking services to vehicles and other mobile object. It integrates anti-theft, positioning, tracking, SOS alarm, advertising and vehicle scheduling functions.

T360-101A fully supports the GPRS network data transmission function, GPRS platform can be combined with software to make it more widely used in large-scale cluster monitoring, emergency scheduling, location-based services, fleet management, traffic safety management and many other fields.
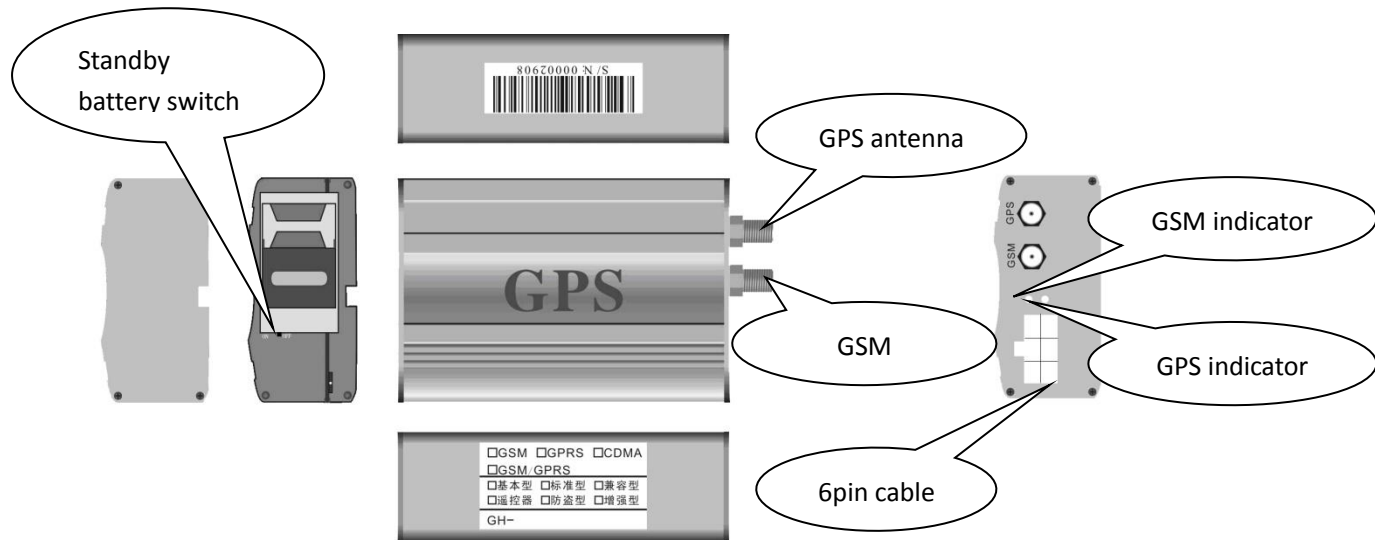
Product Features:
- TCP/UDP
- Track on Mobile
- Track on Demand
- Track via GPRS/SMS
- Setting via GPRS/SMS/USB
- Track by Time/Distance Interval
- SOS Alarm (optional)
- Speeding Alarm
- Geo-Fence Alarm
- Mileage Report
- Standby Battery
- Engine Cut (Engine Immobilization)
- OTA Updating
- Sleep Mode

Note:
- ✓ If an error or a write command to send messages of non-default number of instructions, this product will ignore it.
- ✓ All input commands must be uppercase letters in English, and need to use Standard English punctuation, must not use other input method instead of the English punctuation. And all SMS commands are no space character between the contents.
- ✓ This product is factory default password for 【1234】, convenience-oriented brochures to explain the following command operation for some of those involved in your password are the product's default password 【1234】
- ✓ This product is not waterproof, choose the dry location to install, and pay attention to water moisture.
- ✓ Please installed and use this product properly.

2.Product Overview

2.1 Main device

Standby battery switch

GPS antenna

GPS

GSM

GPS indicator

GSM indicator

6pin cable

☐GSM ☐GPRS ☐CDMA
☐GSM/GPRS
☐基本型 ☐标准型 ☐兼容型
☐遥控器 ☐防盗型 ☐增强型
GH—

2.2 Indicator Light Description

LED Light	Light On	Light Off	Description
Green	5 S	1 S	GPS Located
	1 S	1 S	GPS Unlocated
	0.5 S	0.5 S	Initialization
RED	1 S	1 S	Searching for GSM Network
	0.5 S	3 S	GSM Network Normal
	Blink Frequently		Transferring /Receive GPRS Data
	Light Off		Device Power Off or
			LED Indicator Light Error
	Light Always On		In Call or Dialing

3.Connection Diagram
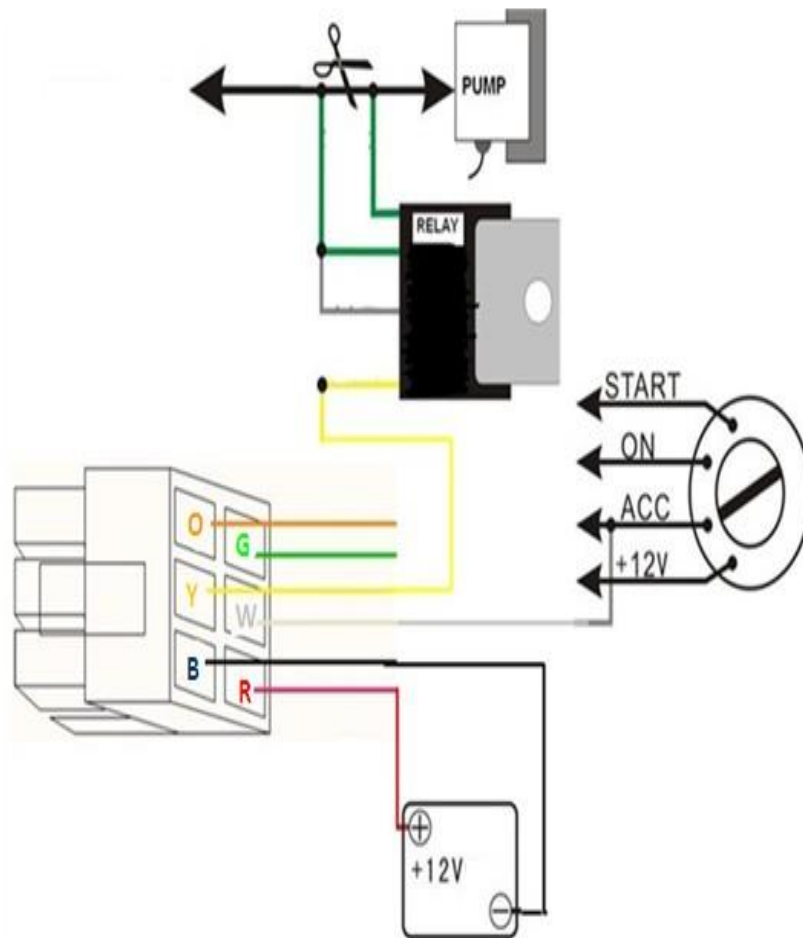
Note: for now Orange cable and Black cable are used for SOS button.

| Cable	Description
Red	Power(+)
Black	GND(-)
White	ACC
Yellow	Fuel-Cutting Control
Green	User-Defined High- Level Detection
Orange	User-Defined Low-Level Detection (Optional: SOS Alarm)

4.Product Initialization

After you get 101A product, please familiar with it and test it before you install it in a Car. Please test it according to the following steps.

4.1 Prepare works

✧ GPS product
✧ Local GPRS SIM card
✧ 12V DC power supplier

4.2 Setting steps

Step1. Insert SIM card into GPS device.
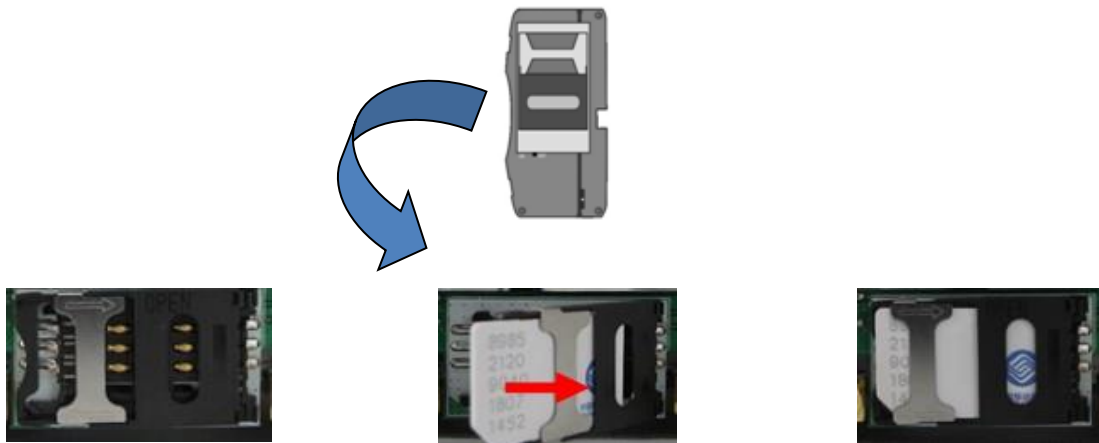
Unscrew and remove the side casing.
Insert a SIM card as the chip side facing to the connector on PCB.
If function of SMS para-setting/tracking is required , please make sure SMS/GPRS service is available.

Step2. Connect the antennas (GSM antenna and GPS antenna) to device

Step3. Connect the black wire (GND-) and the red wire(Power+) to a +12V power supply..

Step4. Send Commend to SIM card number by SMS: **"Set server" (No.1)**,"**Query Working State"(No.3)** to make sure device is normal (If receive the reply from the device). Then the devices need set up **APN (No.2)** to connect to server via GPRS. The following table shows commands for setting these parameters.

No.	Name	Command	Reply	Instruct
1	Set server IP/Port	**AS1234*269#1, 59.188.20.77,5500,0 #**	IPPO: 59.188.20.77 Port 5500 Type:0	Reply content is "IP" "Port", 0 means UDP, 1 is TCP without SOS button; 8 means UDP, 9 is TCP with SOS button;
2	Set APN	**AS1234APN:www.vodafone.net.nz#**	APN:www.vodafone.net.nz;OK	APN setting
3	Restart Device	AS1234RSGS#	GSM/restart; OK	Device restart
4	Query Working State	**AS1234STATE#**	IP:119.147.23.108 PORT:7777 ID:10600003 VER:T360-101E (YTJ)V2.7 May 31 2012 10:24:25 CSQ:22 CGREG:1 ms:3	VER: version; CSQ:22 GSM signal strength, 10~31 is normal for online; CGREG: 1 signed on the server; Ms:3 online, (0, 1 module initialization and read card, 2 send heartbeat packets, 3 online status, 4 network state, 5 sleep mode, 6 listening)
5	Position query1	AS1234WHERE1#	Address with city, street reply	
6	Position query2	AS1234WHERE2#	http://maps.google.com/maps?hl=en&q=+22.59303,+113.87110	
9	Cut fuel	AS1234ENGINE:OFF#	ENGINE:OFF;OK	
10	Restore fuel	AS1234ENGINE:ON#	ENGINE:ON;OK	

Note:

1) All the command Character must write correctly, include punctuation/super-case or lower-case, any incorrect input will cause command error.

2) The SIM card inserted in device must be activated and open SMS function, if not open will cause all the command do not receive and execute
3) Device default password is: 1234.
4) For Vodafone SIM card, APN command is AS1234APN:www.vodafone.net.nz#

5. Functions

5.1 Real-time positioning

Monitoring center can directly locate the specified vehicle terminal call view, in-car terminal will immediately return to the central monitoring platform details such as vehicle location data. Location information mainly include: time, longitude, latitude, speed, location, location signs, vehicles and terminal status.

5.2 Report by timing interval

Monitoring center can specify the car back to the terminal for data transmission interval timing settings, factory default upload interval of 30 seconds, adjustable range is 5-65535 seconds; if interval is set to less than "5 seconds ", the terminal device will automatically return to the "5 seconds."

5.3 Mileage statistics

The beginning of this equipment from loading automatically calculate mileage, and mileage statistics from time to time to report to center platform, the center can take advice on car mileage table stored data; also the centers can clear the vehicle mileage data stored by platform, or be derived in accordance with set time-related mileage statistics. Mileage statistics < "16000km".

5.4 Stop Engine (oil) / Recover Engine (oil)

Monitoring center can be personalized to the designated vehicle and a remote disconnect the circuit or to restore the circuit, when the vehicle terminal receives instruction on the oil line or restore the circuit to take down oil movements.

(**Note**: Equipment in the implementation of action off the oil when it is the first implementation of the three sub-batch 1 seconds off the oil 【off 15 seconds】 ---- restored to the 4th when completely cut off oil line)

5.5 Alarm functions

5.5.1 Over speed alarm

Traffic speed alarm refers to the device in accordance with the speed to allow the user to set the value of constantly monitoring the vehicle speed, when the vehicle speed exceeds preset allowable value, the device will send over speed alarm data reported to the Center, when the speed dropped to the default values that the abolition of alarm. Center received alarm data may confirm or cancel the alarm. Driving speed alarm set value in the 0-255 (km) range.

5.5.2 Terminal main power cut alarm

When the vehicle power supply was cut off the terminal will issued a power off warning in 3 seconds, at the same time start the backup battery power supply (can last around 4 hours), again automatically detect whether the alarm is canceled after 30 seconds, Center received alarm information could confirm and cancel alarm.

Note: The brown-out detection voltage threshold value <7V (DC).

5.5.3 Fatigue driving alarm

Overtime drive; also known as fatigue, driving is mainly a continuous monitoring of driver fatigue, driving out to bring the traffic safety problems. When the alarm function to open overtime driving, driving conditions to determine the state of ACC in the ON state duration beyond the default values, is central issue, when the ACC began to open the device time, when the preset value is exceeded, the device will be immediately sent to the Center of fatigue driving alert data, the user can confirm or cancel the alarm on demand.

5.5.4 Custom Sensor Alarm

The device with 2-way accustom test line (the test line of the definition and installation please refer to the section described in the previous installation of the 【Connection Diagram】) in order to meet specific customer needs. When the user needs to customize sensor alarm function can be defined according to their own needs the name of the line alarm. As defined by the test line before it is triggered, the device will immediately send a custom alarm to the central data center can be confirmed after the receipt of alarm information and cancel alarm.

5.5.5 SIM card removed alarm

There have an anti-remove switch beside the SIM card plate. If the plate been removed to get the SIM card, device will upload alarm information immediately. It is very important alarm and can only be send once (Can't send any information after SIM card being removed.).

6.Accessories

○ 101A-type vehicle terminal 1 sets (built-in battery)

○ 6 PIN control cable 1

○ GPRS communications antenna 1

○ GPS positioning antenna 1

○ Device fixed Ties 3

○ Mount Patch 2 pairs

○ Breaking the fuel Relay 1 (DC12V 40A) (If you need to 24V relay please advise in advance) **(Optional)**

○ MIC Phone **(Optional)**

○ SOS button **(Optional)**

7.Specifications

ITEM	Parameter
Gift Box Dimension	180mm × 128mm × 60mm
Color	Black
Working voltage	9V -- 30V DC
Working current	80 mA－110 mA（12V/DC）
Standby Battery Life	Up to 2 hours

Tracker size	84mm X 54mm X 24mm
Working temperature	-25℃ -- 65℃
Moisture	5% -- 95%（Non-water vapor condensation state）
GSM Chipset	U-BLOX / FIBOCOM
GSM Frequency	900MHz / 1800MHz
GPS Module	U-BLOX / Skylab
GPS Sensitivity	-159 Db
GPS Frequency	1575.42 MHz
Locating accuracy	< 5m （95％）
LED indicator light	Green / Red LED light shows the GPS / GSM status

8.Monitor System

8.1 Login system

Monitor System address: http://gps.soundtech.co.nz   Please ask for your user account and Password from product where you bought.
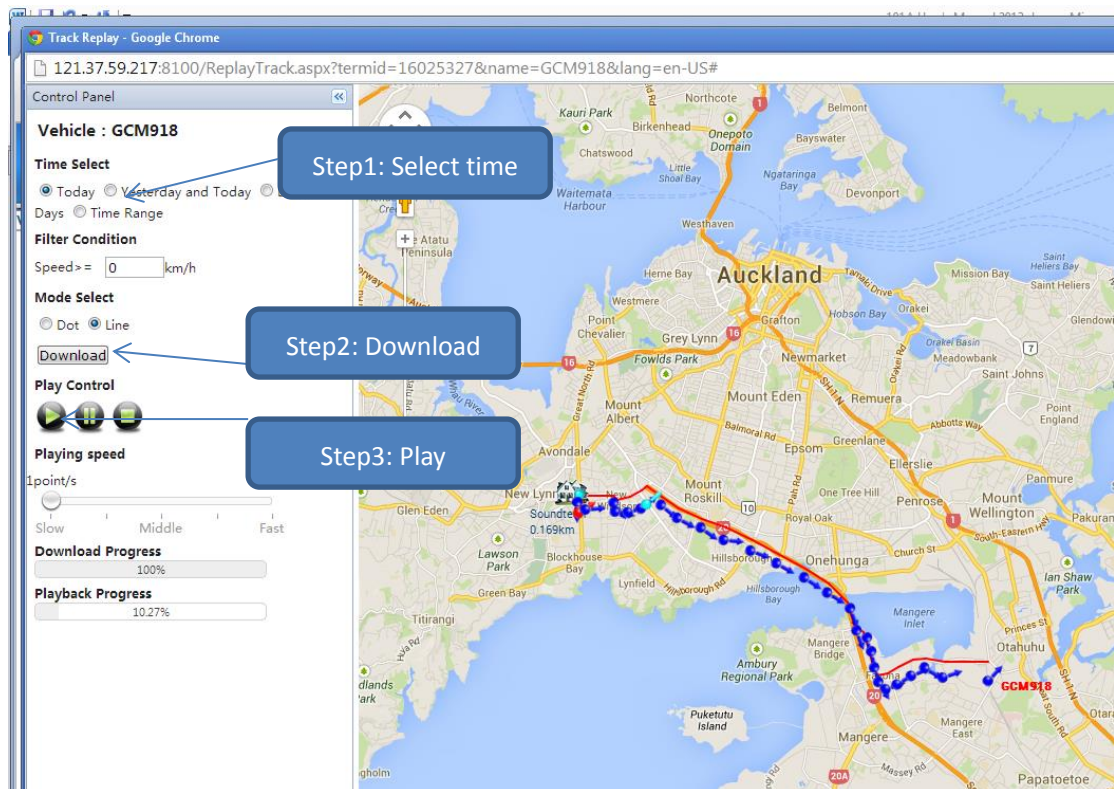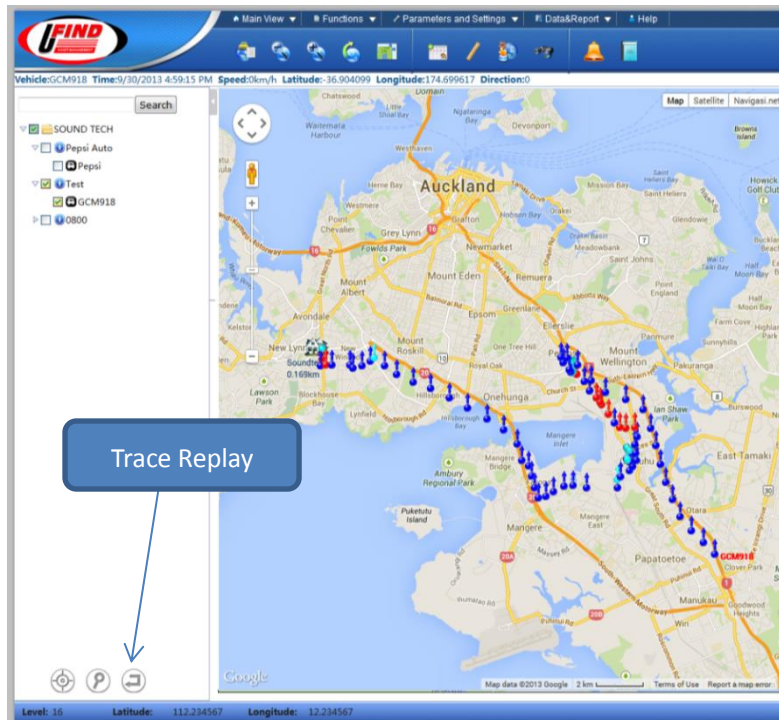
8.2 Find your car from the left
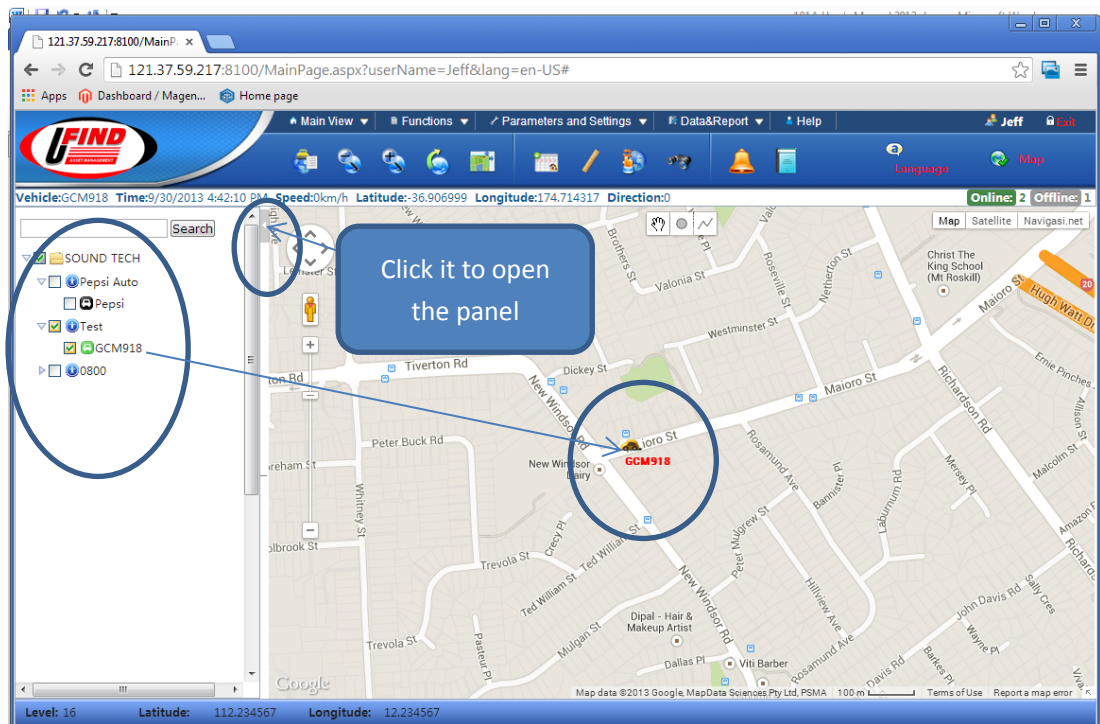
8.3 Tracking your car
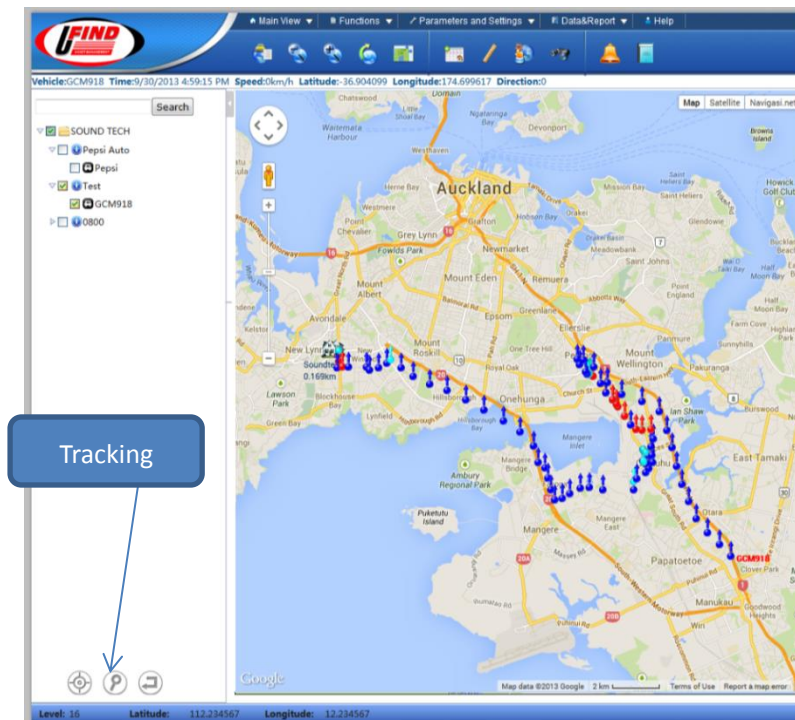
8.4 Trace Replay

Click Trace Replay button, choose time period and click download. Then using play control to view the trace replay of your car.

9. Cost of data (Vodafone SIM Card)

9.1 Usage of GPS Tracker

30MB-50MB Per month (GPRS)

9.2 Preparing for SIM Card

- Buy a prepay Vodafone SIM Card
- Call 777 or go to Vodafone shop to activate
- Top Up and buy a plan named "Mobile Internet 2 Go" (Find more details in Supa plan from Vodafone.co.nz).
  How to buy the plan: TXT 'BUY MI2GO' to 756 to buy or go to Vodafone shop (Please buy this addon after a month when installed GPS Tracker and it'll be charged $5 for changing plan.)

Mobile Internet 2 Go >

50MB of data to use on your phone

✔ Free for one month
✔ $6 per month (Incl GST)
✔ TXT 'BUY MI2GO' to 756 to buy this Add-On