Smart GPS Tracking System

www.freeroadgps.com

Safe,Simple and Efficient

Available at Android Market

Coming Soon on App Store

Diimport/Diedar:BEYOND TRADING SDN.BHD.
Address:No.37-39-41-43,Jalan Kasuarina 5/KS 7,Bandar Botanic,41200 Klang,
Selangor Darul Ehsan, West Malaysia.
Tel:+603-3325 2255(hunting line) Fax:+603-3325 1155
Email:betrading2003@yahoo.com Website:www.beyond.com.my

Free Road *by Debezt*

CM SIRIM SIRIM APPROVED

Smart GPS Tracking System

User's Manual i–288 M3

One-Key Smart Monitor & Control

www.freeroadgps.com

Table of contents

1. Product' s features.....1

2. Product' s overview.....1

3. Product components.....2

4.Operation.....2

5. Device's socket connection diagram 7

6. Using the web base enquiry portal for positioning and enquiry..... 8

7. Guideline on the services fee for the device' s SIM card.....16

8. Matters for attention.....16

9. Technical data.....16

GPS Tracking System

1. Product' s features

GPS Tracking System is a multi-function tracking device, having functions such as positioning and Anti-theft.

Please read carefully this operating manual for maximising the usage of the product. Please keep this manual in safe custody for future use.

2. Product's overview

3.Product components

Main unit of the GPS Positioning device

Socket connection wires

Sealing plug

Screw Driver

4.Operation

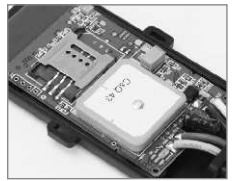
4.1 Installing the SIM card

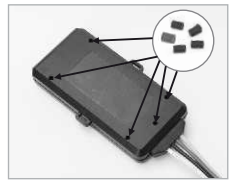
The SIM card must be able to send and receive SMS text message, with caller display function enabled and be able connecting to GPRS.

A. Loosen back cover of the device with the screw driver,the SIM card slot can be found in the PCB board.

B. Insert the SIM card inside the SIM card slot and lock it up(note the direction of SIM card),then tighten the screw to the back cover.

C. Plug the 4 screw holes with the supported sealing plug(if the equipment is installed out of the vehicle,it must be sealed with a screw plug screw holes will be plugged, or the device won't have the waterproof funciton).





4.2 Status of Indicators

A. GSM Indicator (Blue): Indicator for telecommunication signal. Once connected to the GSM network, the indicator should flash twice in every 3 seconds.

B. GPS Indicator (Green): The flashing green light indicates that GPS is receiving satellite signals. Light will stay green when satellite signals is settled

4.3 Setting the monitoring mobile phone

The monitoring mobile phone will be used to set up and modify the system setting. The monitoring mobile phone will receive SMS text message warning alert being sent from the GPS device. Before setting up the system's monitoring functions, the user must register one monitoring mobile phone numbers .Write a SMS text message to the device's SIM card phone number through the phone number.

The device's SIM card phone number is the recipient of the following SMS text message.

Setting the monitoring mobile phone number: It is suggested that the primary mobile phone number be the usual driver of the vehicle.

SMS text Format: **100, mobile phone number**

Example: **100,0163322888**

Returned SMS text message: **Monitoring mobile phone settings success**

Remark: The input mode must be in English for entering the full content of the SMS text message, otherwise, the set up will not be successful. The same apply to all the other system settings.

4.4 Actively query

It is convenient for the owner to wake up the query and positioning the monitored vehicle at any time.Send the SIM card's phone number through the monitoring mobile phone number a SMS text message to enquiry the device's status.

Send the SMS text message: **700**

Returned SMS text messages: **The current latitude, longitude, speed, direction,**

temperature, voltage. **(**If the device can not be located, the return message: **Unpositioning, temperature, voltage**)
Send the SMS text message: **600**
Returned SMS text messages:**The current specific address.(**If the device can not be located, the return message: **Unpositioning, temperature, voltage**)
Remark:The enquiry must be made through the monitoring mobile phone number. The other registered mobile phone numbers have no right to make such enquiry.

4.5 Activate/Deactivate the Anti-Theft function

Activation/Deactivation by sending SMS text message.
Activation: Send to the SIM card phone number through the primary mobile phone number a SMS text message.
Sent the SMS text message: **111**
Returned SMS text message: **System activated**
Deactivation: Send to the SIM card phone number through the primary mobile phone number a SMS text message.
Sent the SMS text message: **112**
Returned SMS text message: **System deactivated**

4.6 Anti-theft warning alert by SMS/GPRS

The device will release alert message for the events of unlawful ACC ignition start and abnormal vehicle movement. If any one of these events is detected, the device will release warning alert to themonitoring mobile phone number a SMS text message and GPRS signal to the web base enquiry portal.

A. Alert for unlawful ACC ignition start

When the device is activated (the device is properly connected to the ACC ignition device), in the case when unlawful ACC ignition start is detected, the device will send to the primary mobile phone number two SMS text messages: **Alert! Abnormal start detected**.**the latitude and longitude.** The device will also send the same message to the web base enquiry portal by GPRS signal.If device is not positioned then you will receive a text message: **Alert! Abnormal start detected,unpositioning**.

B. Abnormal vehicle movement

When system is in anti-theft mode**,** if there is a 10m/s of movement detected on the monitored vehicle**,** car owner will receive a warning text message**: Anti–theft**

alarm, **vehicle has been detected abnormal movement! Longitude, latitude.** meanwhile, system will report the abnormal movement of the vehicle to the monitoring platform.

4.7 Region-fencing warning

The setting for region-fencing must be done through marking the pre-determined region at the online map integrated with the web base enquiry portal. Once the region is determined and the vehicle is driving in/out of the pre-determined region, the device will send to the monitoring telephone number a SMS text message:**Vehicle moved in/out the monitoring region**. **the latitude , longitude .** The device will also send the send message to the web base enquiry portal by GPRS signal.
Remark: The region-fencing can only be determined or cancelled through the web base enquiry portal. Region-fencing will remain function until it is being deactivated. (Please deactivate the function if region-fencing is not required, this will help save the SIM card's SMS text message cost).

4.8 Speeding alert

The speeding limit can be determined through the web base enquiry portal. When the vehicle is travelling above the pre-determined speed limit, the device will send to the monitoring mobile phone number a SMS text message: **Vehicles Speeding! the latitude, longitude** . The device will also send the same message to the web base enquiry portal by GPRS signal.
Remark: The speeding alert can only be activated/deactivated through the web base enquiry portal. Speeding alert will remain function until it is being deactivated. (Please deactivate the function if speed alert is not required, this will help save the SIM card's SMS text message cost.)

4.9 Email Alarm Function

After the users setting the email alarm function on monitoring platform throught computer,all the alarm message from the device will sent to the appointment email address(Please reference the operation manual page14,email alarm setting)

4.10 Function of Remote Flameout

When a vehicle is abnormal and gives an alarm, the user can start the function of remote flameout for the vehicle by monitoring platform, and the vehicle will automatically shut down engine.

Flameout Settings: In the operation menu of platform, click “Engine Flameout” to pop up the settings interface. After entering password and confirming, click the Enable key to start the remote flameout for the vehicles. After that, the vehicle will automatically shut down engine (After setting successfully, the platform will display the information of Remote Flameout Has Been Set for Vehicle).At the same time, system will send an alert text message to car owner's monitor phone number:**Engine cut off started. the current latitude, longitude, speed, direction.**

Cancel Flameout: In the operation menu of platform, click “Cancel Engine Flameout” to pop up the settings interface,input the password of device and confirm this operation.At the same time, system will send an alert text message to car owner's monitor phone number:**Engine cut off disable. the current latitude, longitude, speed, direction.**

Remark:

1. **Vehicles must be connected to the ACC wire group can be achieved remotely turn off features**.
2. **After user activate flameout function, vehicles will start up flameout in 1 minute, it make the oil-circuit flameout or power control flameout for a moving vehicle, it will likely lead to vehicles can not normal safe driving, to ensure the safety of vehicles traveling, we strongly recommend that users turn off their engines after parking the vehicle**

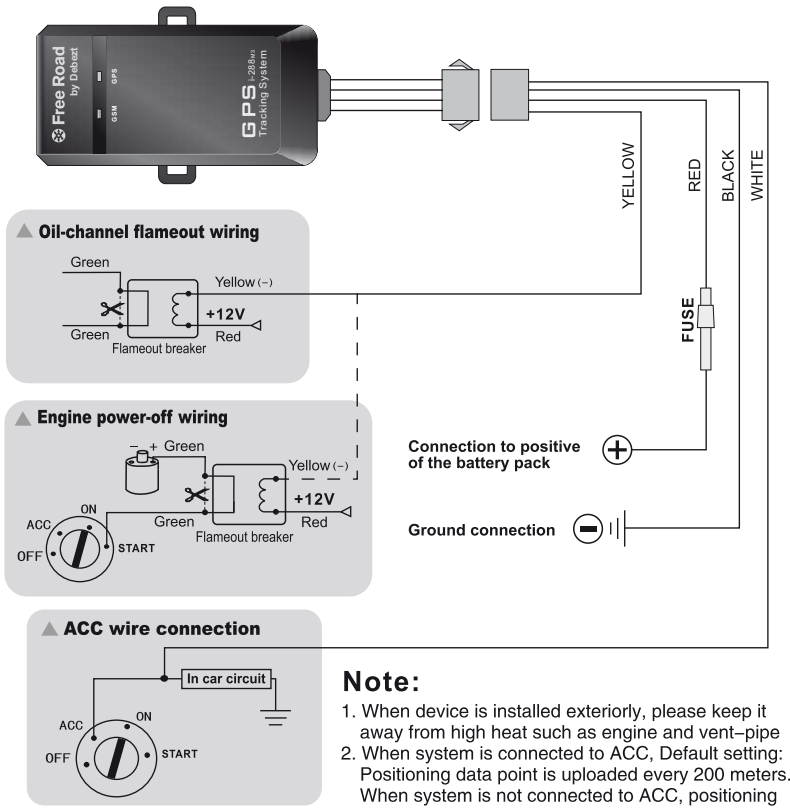
Special Note:

If there is any security problems and accidents because of using the FLAMEOUT function, it has nothing to do with the company.

4.11 Data Uploading

GPS device Device will upload data at specified times (Every 200 meters as default setting).user can modify the distance or time interval of data uploaded on the platform action bar of the "tracking".

5. Device’s socket connection diagram



Note:

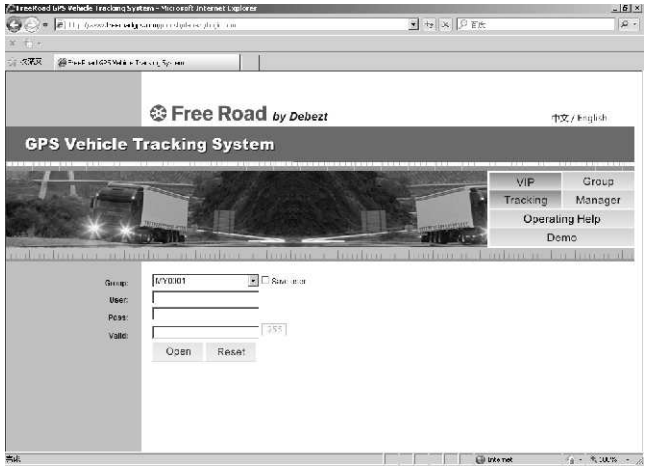
1. When device is installed exteriorly, please keep it away from high heat such as engine and vent–pipe
2. When system is connected to ACC, Default setting: Positioning data point is uploaded every 200 meters. When system is not connected to ACC, positioning data point will be uploaded every 10 minutes when device is static, or will be uploaded every 200 meters if vehicle is moving.

6.Using the web base enquiry portal for positioning and enquiry

6.1 Logging into the server

Logging into the web site, **www.freeroadgps.com**, the interface for signing into the GPS vehicle enquiry management device will pop up, fill in group name, user name, sign-in password and the security code. Once properly done, the interface for positioning enquiry and monitoring will then be signed in.

Remark: Individual user should select "VIP" user. If the portal is not in use for more than one hour, the device will log-off automatically. User must log-in again for accessing the portal.



6.2 Operating the function interface

User can use different functions at the service platform for operation or inquiry about information. If the user is unfamiliar with operation, he or she may consult the operation illustration at the control platform.

GPS vehicle monitoring and management portal is a free open platform. User can use it free of charge. The weather condition and external environmental factors could have impact on the actual location of the vehicle against the co-ordinate as shown on the monitoring map, or the driving track against the actual road map. It is also possible that the portal has not received accurate map data at any given time. User could also find discrepancy on the actual location of buildings, road condition and other relevance information against the data that you may obtain from the map. User will solely held responsible for liability of any kind caused by the use of data or information obtained from using the map provided by Google. Google will not be liable for any claim or damages, whether directly or indirectly, caused by the inaccurate data/information.

6.3 Operation illustration at the control platform

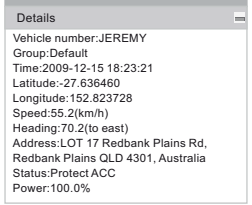
First page of the web site

When login to the website, www.freeroadgps.com, please fill in group ID, user ID, password & security code correctly for successful login.

Vehicles List

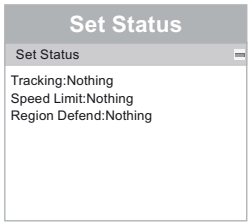
Select the vehicle that you like to make the enquiry from the list of registered vehicles.

Details



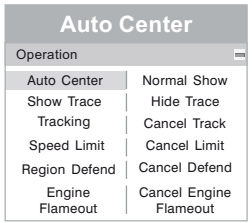
This column shows vehicle's license plate number, group, time of record uploaded, Longitude, latitude, Speed, Direction, Address, status, Signal of GPS and GSM, Battery Volume.

Set Status



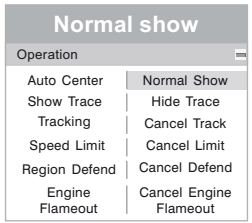
This box displays the setup status of continuous positions, speed limits and zone arming.

Auto Center



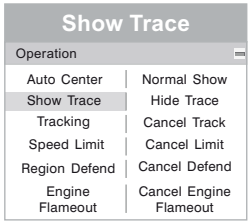
Information/status of the selected vehicle will then be locked up and displayed at the map.

Normal show



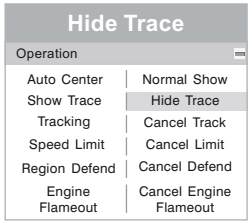
Once the vehicle lock up is released, the system will then be returned to the normal mode.

Show Trace



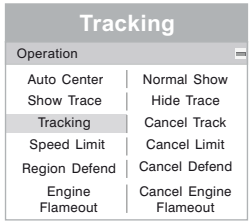
Displaying the real time tracking in which the vehicle is being travelled.

Hide Trace



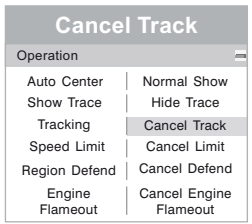
The real time tracking in which the vehicle is being travelled will be hided.

Tracking



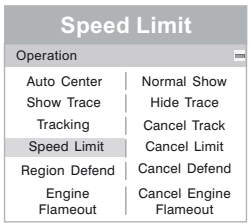
The positioned equipment is subject to continuous positioning according the distance or interval set for the equipment.

Cancel Track



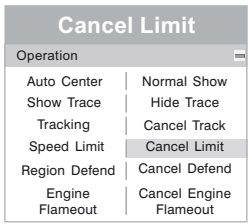
Continuous positioning function will be terminated.

Speed Limit



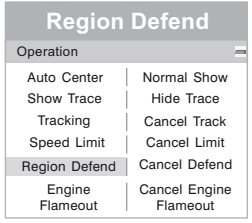
Setting up the speed limit in which the vehicle can travel. The system will send warning alert SMS text message to the user if it has been travelled above the speed limit.

Cancel Limit



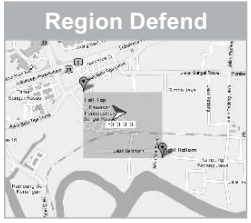
Cancelling the setting for speed limitation and the system will stop sending alert message to the user.

Region Defend



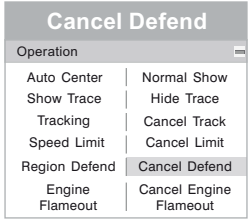
Once the function for region-fencing is activated, the system will send alert message whenever the vehicle is driving in or out of the determined region/area.

Region Defend



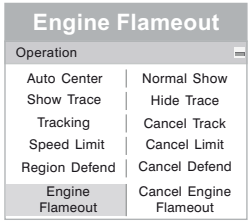
Under the region defend, an area selection window will pop out, click on the area button above the map, and point the cursor on two positions and click out an rectangular region, then confirm the drawn region by click on set tab to complete the geo-fencing process.

Cancel Defend



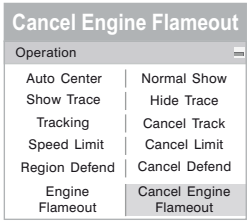
Deactivating all the settings that have been done previously.

Engine Flameout



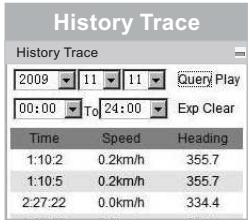
Click “Engine Flameout” to pop up the settings interface. After entering password and confirming, click the Enable key to start the remote flameout for the vehicles. About 1 minute after apply the setting, information bar will show “Engine Flameout” to signal.

Cancel Engine Flameout



Click “Cancel Engine Flameout” to pop up the settings interface, input the password of device and confirm this operation.About 1 minute after apply the setting; the “Engine Flameout” signal will be cancelled.

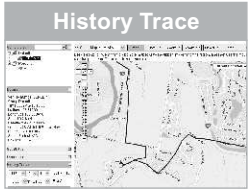
History Trace



Select the date and time required for inquiry.

Click “Inquire”,the historical tracks of vehicles traveling at this time section will be displayed on the map, and meanwhile, data about the longitude and latitude at places of vehicles in this time section will be displayed on the list.

History Trace

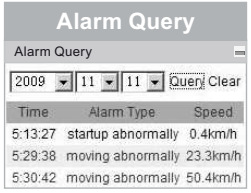


Click “Play” ,the historical tracks of the vehicles inquired about on the map will be played back by frames.

Click “Export”, the detailed historical track data about the vehicles inquired about will be opened or saved in the Excel file format.

Click “Clear”, the data inquired, played back and exported as previously selected will be all deactivated.

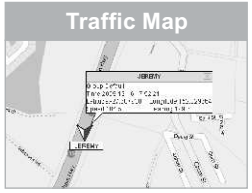
Alarm Query



Select the year, month and date required for inquiry about, and then click on Inquire, and the alarm data on this vehicle given on a designated date will be displayed at the lower part of the Inquire box.

Click "Clean" to be able to close the alarm data list.

Traffic Map

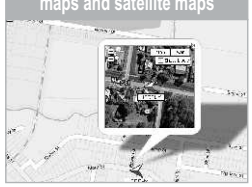


The blue icon in the Google traffic map shows the vehicle’s location. When device has not uploaded positioning data in 10 minutes, icon will turn grey. When device uploads alarm information, icon will turn red. When replaying the historic trace, icon will turn green.

Satellite Map

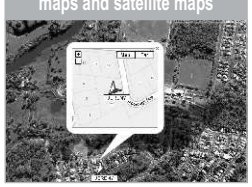
The blue icon in the Google satellite map shows the vehicle’s location. When device has not uploaded positioning data in 10 minutes, icon will turn grey. When device uploads alarm information, icon will turn red. When replaying the historic trace, icon will turn green.

Real-time contrast of the traffic maps and satellite maps



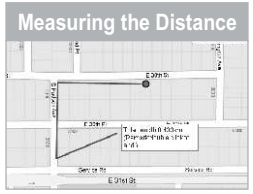
Under the traffic map, click at the target place will show the satellite map window for comparison.

Real-time contrast of the traffic maps and satellite maps



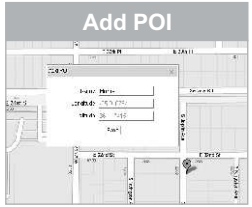
Under the satellite map, click at the target place will show the traffic map window for comparison.

Measuring the Distance



The travelled distance can be measured on the Map.click "Measure",then click the position that will be measured on the map, double-click to end.

Add POI



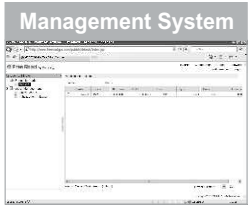
User can mark down customized place on Google map.

Click “Add POI”, window for entering place of interest will pop up, an icon will also appear on the center of the map.

Drag the icon to location where you need to add the name of interest on the map, then enter words, click “Save” to show the added location.

Click the added location, then press “Delete” on the pop-out window, and confirm to delete added location.

Management System

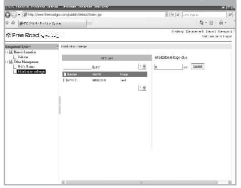


Click on “management system”, go to Vehicle Management System, click on “vehicle”, select corresponding vehicle's license plate number to go to management interface and change vehicle's information.

Unit's Status

Click on “Unit’s Status”, Select corresponding license plate number to the latest uploaded record, such as Longitude, Latitude, Speed, battery volume and others.

Initialization mileage



Click on “Initialization mileage”, select corresponding license plate number, enter the value of mileage, then click on “Submit” to set up initial mileage.

Email alarm setting

Enter the alarm receiving E-mails (up to 3 E-mails available) in the “E-mail 1,2,3” in vehicle’s information management, also TICK behind the square box. Click SAVE to apply E-mail alarm function.

Online Analysis

Click on “Report”, go to Report window. Click on “Online”, select Type and Days, click on “Query” to check out online and offline devices.

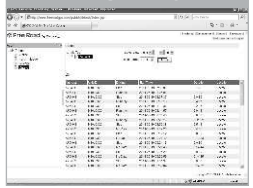
Total mileage

Click on “Enquire Total Mileage”, select license plate number to enquire vehicle's initial mileage and total mileage.

Mileage

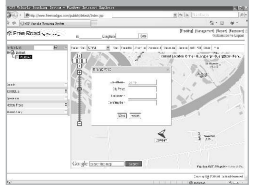
Click “Mileage”, select vehicle, date, output format (Html or Excel), then click “Submit” to check the driving distance of specific vehicle.

Driving Analysis



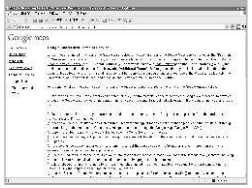
Click “Driving”, select Date and Output Format (Html or Excel) on the pop–out window,click “Submit” to check vehicle’s stopping location and driving location.

Change Password



Click “Password ”, the password modification interface will pop out on the screen. After the new and old passwords are filled in and confirmed, click “Save” to finish password modification.

Term of Use



By clicking the lower right hand corner of the window, the “Term of use” interface will be popped-up which show all the terms and conditions applicable for using the Web base enquiry portal.

Print

Click “Print”, the window's content will be printed.

7. Guideline on the service fees for the device's SIM card

The SIM card inserted into the device is the mean of communication between the device and the user. There will be charges for ″SMS text message″ and ″GPRS data uploading″, and the charges could be varied in accordance with the user's preference and the setting for data uploading. The user will have to pay their own charges to the respective telecom carriers.

A. The SIM card must be able to send and receive SMS text message, with caller display function enabled and be able connecting to GPRS.
B. In order to have the device functioned properly, please ensure that you have paid the charges for the SIM card inserted into the device on time.

8.Matters for atention

We are not liable for any claim against the Company if the device is failed to receive GPS signal due to the following circumstances:

A. Geographical reasons (e.g. the vehicle is located at a basin, remote mountain area, etc).
B. Surrounding environment (where the vehicle is surrounding with high rise buildings or the vehicle is travelling inside a tunnel).
C. Building or construction, such as Power Station or Power Pole, which could interfering the receipt of GPS signal.
D. Bad weather.
E. If medal heat insulating window film and heat-insulation course are applied to the vehicle's glass window, it will affect and reduce the GPS reception of signal, also GPS may be unable to function properly. If GPS is unable to locate, please change the installed position of GPS.

9.Technical data

Air interface: GSM/GPRS/GPS
Supported frequencies: GSM850/900/1800/1900 MHz, GPS 1575.42 MHz
GPS sensitivity: -147dbm ~ - 159dbm
Ambient temperature: -35℃ to 80℃
Working environment: Area with GSM/GPRS network coverage
Product size: 90 x45x14mm
Product weight: 50g