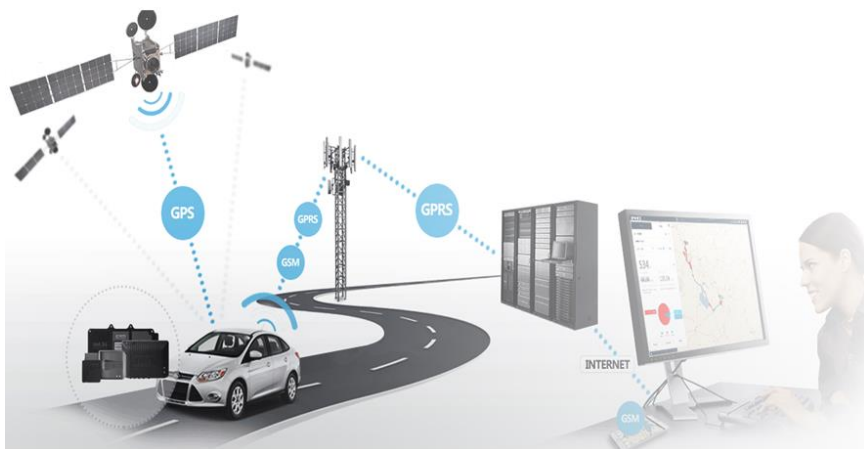


# **Car tracker anti-theft (Model:MT2V)**

# 1 Car tracker anti-theft Introduction

**MT2V** integrates GPS and 4G module, it can send car location to mobile and Internet by SMS or GPRS , easy to tracking car on map real time, view status on website, lock/unlock by SMS/website and mobile , kill engine remotely, find car in the car park by control horn, lock/unlock by mobile bluetooth



## 2 Product Description



### 2.1 Specification

**4G module: SIM7670G**

- LTE-FDD : B2/ B4/B5/B66

- Max RF Output: 33.0dBm $\pm$ 2dBm
- Dynamic Input Range: -15 ~ -102dBm

### **GPS module:**

- Frequency: L1, 1575.42 MHz
- Number of Channel: 20

### **Interface:**

- 2 extend R232 port
- 1 A/D Port
- general I/O Ports
- 1 Microphone interface

### **Battery:**

- Voltage:3.7V
- Charge:<4.2V
- Li-ion: 200~850mAh

**Input Voltage:** DC 9~36V

**Operating Temperature:**-45~65 ℃

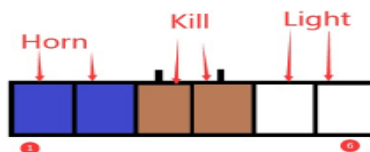
## **2.2Features:**

1. Real-time locating
2. Communicate with internet by 4G network
- 3.Lock/Unlock by SMS or bluetooth
4. Kill engine remotely
5. Control horn by SMS
6. E-fence/Over-speed Alarm
7. Compatible original anti-theft

## 3 Installation Instructions

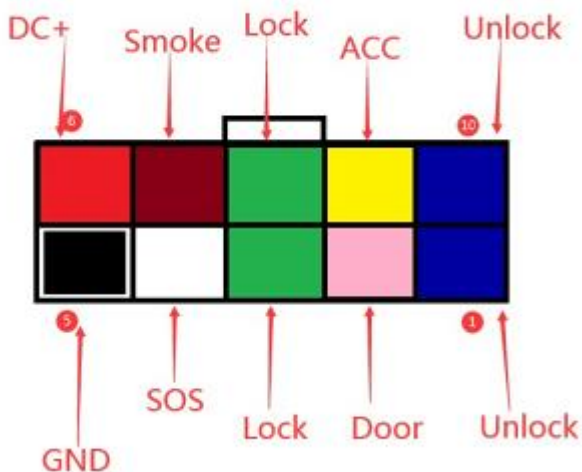
### 3.1 Interface

Interface 1 (Output ports):



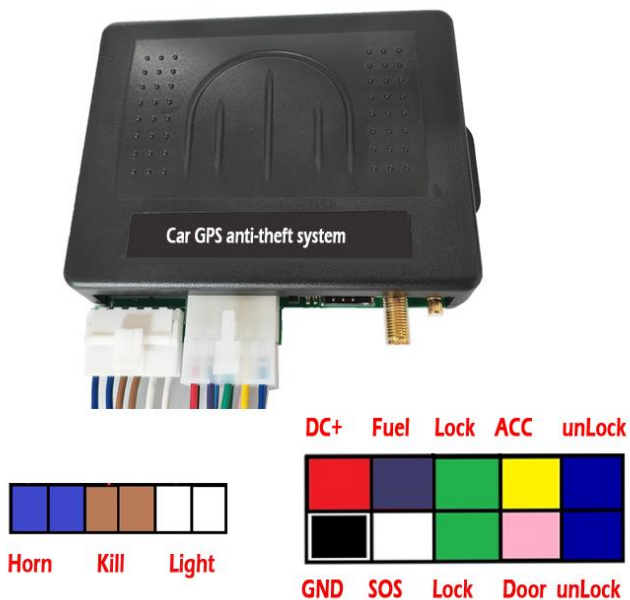
1-Horn in    2-Horn out  
3. Kill in    4-Kill out  
5 light in    6-Light out

Interface2



| No. | Description       | No. | Description |
|-----|-------------------|-----|-------------|
| 1   | DC+ (9~36V)       | 6   | GND         |
| 2   | Analog input port | 7   | SOS(hook)   |
| 3   | Lock in           | 8   | Lock out    |
| 4   | ACC               | 9   | Door        |
| 5   | Unlock in         | 10  | Unlock out  |

## 3.2 Installation Figure



### 3.3 Installation and Test:

Please test after installation. If you don't need some functions, you can disconnect corresponding interface. Please make sure ACC, DC, GND installed correctly. Otherwise, the device cannot work. Please check the device status through signal light after power on:

- LED1 is off which indicates there is no power.
- LED2 flashes for one second which indicates LTE registers successfully.
- LED2 flashes three seconds once which indicates GPS is obtaining orientation
- LED2 is on which indicates work successfully that LTE has registered and GPS has obtained the orientation.
- If LED 2 is on 0.1 second then off 0.1 second for more than 3 minutes, please make sure SIM card inserts well. Without SIM card, the device cannot work.

## 4 SMS Operation Instruction

SMS Format: A\*\*\*\*\*,cmd,param1,param2...

1. \*\*\*\*\*is the password, Initial Password is 000000
2. cmd is the command ID.

3. Param is the command parameter. Different cmd use different parameters. All the parameters must use half-angle symbol. Wrong SMS format or wrong password, it will not respond.

### 4.1 Location Enquiry (000)

Message format: A\*\*\*\*\*,000

e.g. A000000,000

Reply: <http://maps.google.com/maps?q=22.54079,113.93923>

09-10-20 17:38:30 Speed:20

you can use the website to Enquiry on google Map

## 4.2 Change Password (001)

Message format: A\*\*\*\*\*,001,New Password

e.g. A000000,001,123456

Note:000000 is the old password ,123456 is the new password.

Reply: **Set Password OK!**

## 4.3 Real-time return setting (002)

Message format: A\*\*\*\*\*,002, XXX

XXX=0 is for STOP, value of XXX is within [15~64800] seconds.

e.g. A000000,002,30

Message replied after successful setting: **Set time interval (30) OK!**Message contains position information will be sent in every 30 seconds after successful setting.

## 4.4 Alarm/Listen Number setting

Message format: A\*\*\*\*\*,003,P, TelNumber

P=1 is for SOS and listen

P=2 or 3 is the second\ the third listen number.

e.g. A000000,003,1,136xxxxxxxx

Message replied after successful setting: **Set Telephone OK!**

## 4.5 Over-speed Alarm Setting (005)

Message format: A\*\*\*\*\*,005,XXX

XXX=[000,200] (unit: km/h)XXX=00 is close the function.

e.g. **A000000,005,020**

Message replied after successful setting: **Set Over speed (20) KM OK!**

If the vehicle is over speed you set, it will send alarm SMS to SOS mobile number. 20 KM/H Over speed!

## 4.6 Geo-Fence Setting(006)

Message format: A\*\*\*\*\*,006,XX

XX=[00-50] (Unit:100m) .

When XX=0, e-Fence is OFF. And the maximum limited value of XX is 50\*100=5000m. e.g. **A000000,006,10**

Reply: **Set Distance (1000)M OK!**When user is out of the bound region (e.g. 1020m), a prompt message will be sent to the user: **1020m is further than 1000m!**

## 4.7 Engine Cut-off Setting (007)

Message format: A\*\*\*\*\*,007,n,x

**Note:**

**N=1,2,3,4    1-kill   2-horn   3-Lock   4-unlock**

**X=1    cut off engine , x=0 resume engine,**

e.g. **A000000,007,1,1    -- cut off engine**

**A000000,007,1,0    -- resume engine**

## **4.8 Open/close bluetooth (008)**

Message format: A\*\*\*\*\*, 008, X

X=1 open Bluetooth

X=0 Close the bluetooth

## **4.9 Restart tracker(099)**

Message format: A000000,099,RESETSYSTEM

## **5.1 Set the IP and Port of Gprs\_Server**

Message format: A\*\*\*\*\*,010,IP,PORT

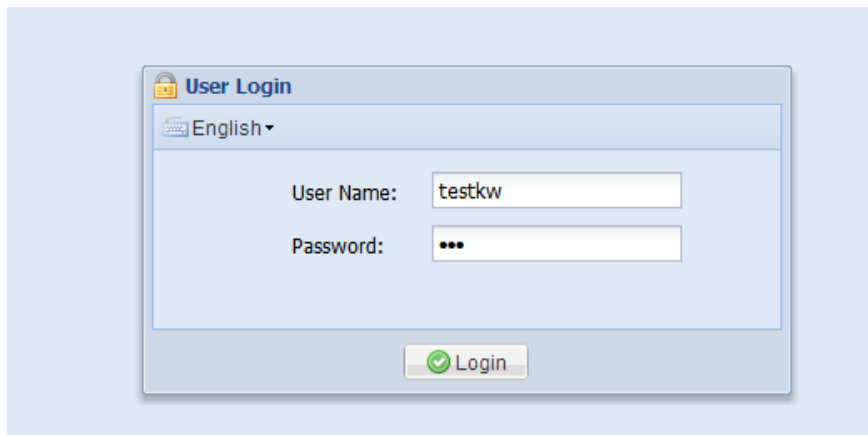
e.g. A000000,010,121.37.58.10,6903

121.37.58.10 is the IP of GPRS\_server, 6903 is the port of GPRS\_Server application (be in communication with GPS camera tracker)

## **5 GPS tracking system on website**

### **6.1 User Login**

Web-based tracking system can support multiple languages. It can change language for local language by itself.



## 6.2 Vehicle real-time tracking

1 choose vehicle → 2 map mode → 3.vehicle state, Google map have 3 model: map mode ,satellitic mode and Hybrid mode

## Car tracker anti-theft (model:MT2V)

System Manager Settings Report Scheduling Assistant Image View Exit

Vehicle Realtime Monitor Vehicle Tracking Trace Playback

Vehicle List: 41

Collapsed Expanded Refresh All

- 2NCORPORATE (2)
  - NR09G35659
  - NR09G35662
- allmotive test (2)
  - PTP345
  - Sgn123
- Alimou (1)
  - MOTO
- Andytest (2)
  - 602210130067
  - 602210130068
- Anthony test (2)
  - NR09G37586
  - NR09G37587
- Arianny test (1)
  - NR09B33992
- Baya (1)
  - HT837AA
- Diane (1)
  - M Diane
- Hazali test (1)
  - KDG 588A
- Hua Lik Transport (1)
  - QSY 506
- ECM (5)
  - AKU 104 SF
  - ABH
  - ABG
  - ABI
  - AJK
- InterbusPvt (1)

Input number,plate Search

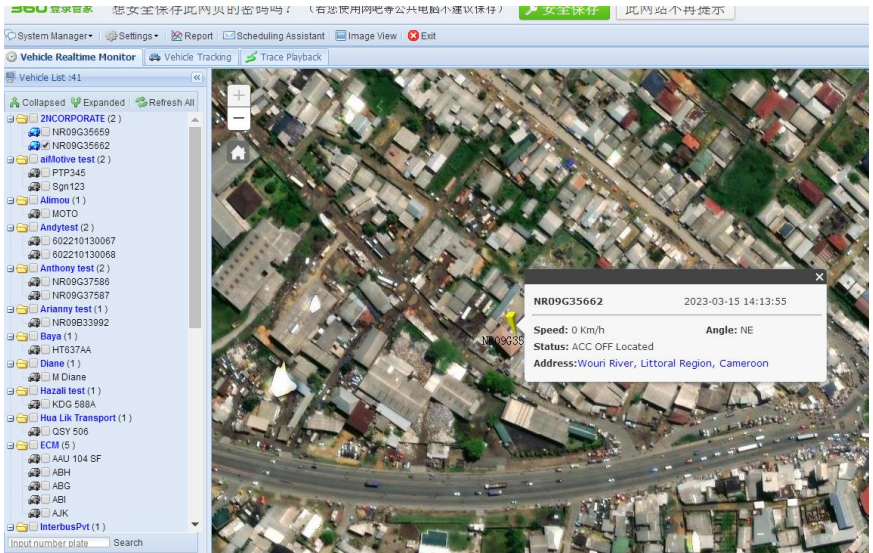
Map showing location of NR09G35662. A popup window displays the following information:

**NR09G35662** 2023-03-15 14:13:55

Speed: 0 Km/h Angle: NE  
 Status: ACC OFF Located  
 Address:Woun River, Littoral Region, Cameroon

Message List

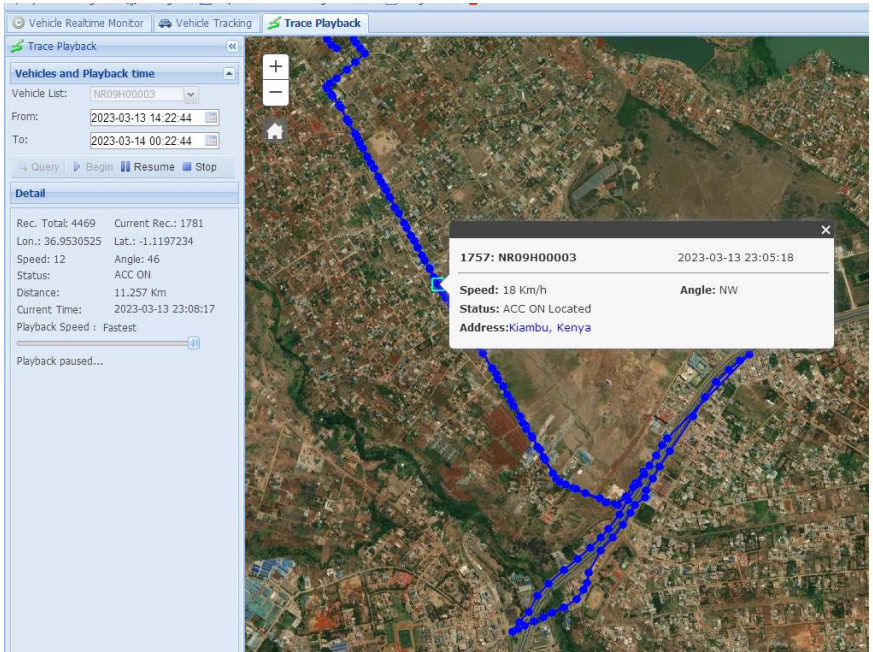
| Content  | Car Plate NO. | Dev ID     | Lon.       | Lat.      | Speed | Angle | Locate  | Time                | Status      |
|----------|---------------|------------|------------|-----------|-------|-------|---------|---------------------|-------------|
| realTime | ET-03-804542  | NR09G26170 | 38.7657810 | 8.9210630 | 0     | 202   | Located | 2023-03-15 14:15:18 | Located ACC |
| realTime | NR09G35662    | NR09G35662 | 9.6443790  | 4.0953030 | 0     | 48    | Located | 2023-03-15 14:13:55 | ACC OFF     |
| realTime | ET-03-804542  | NR09G26170 | 38.7658460 | 8.9211540 | 0     | 210   | Located | 2023-03-15 14:14:28 | Located ACC |



## 6.3 Vehicle history record playback

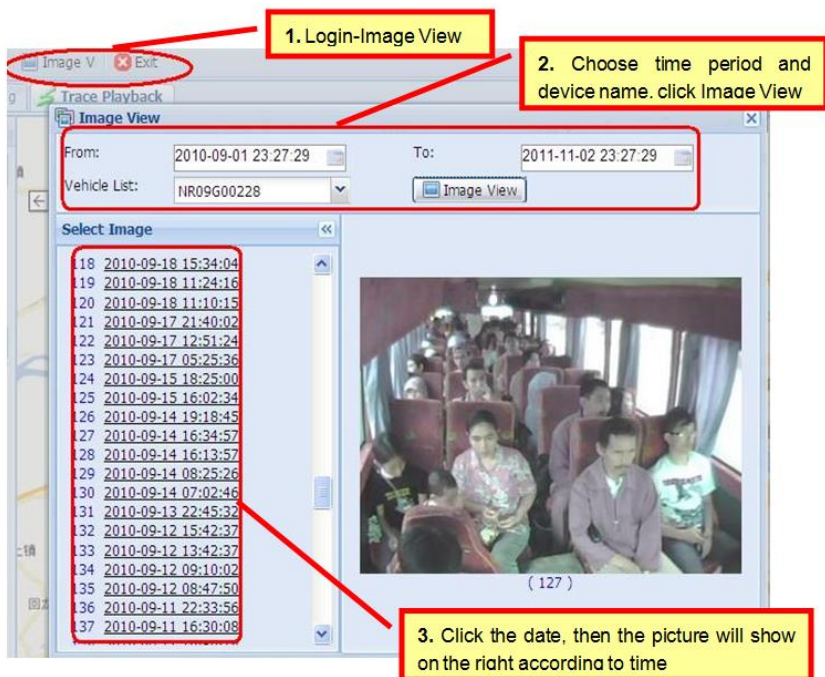
Please point run history review page

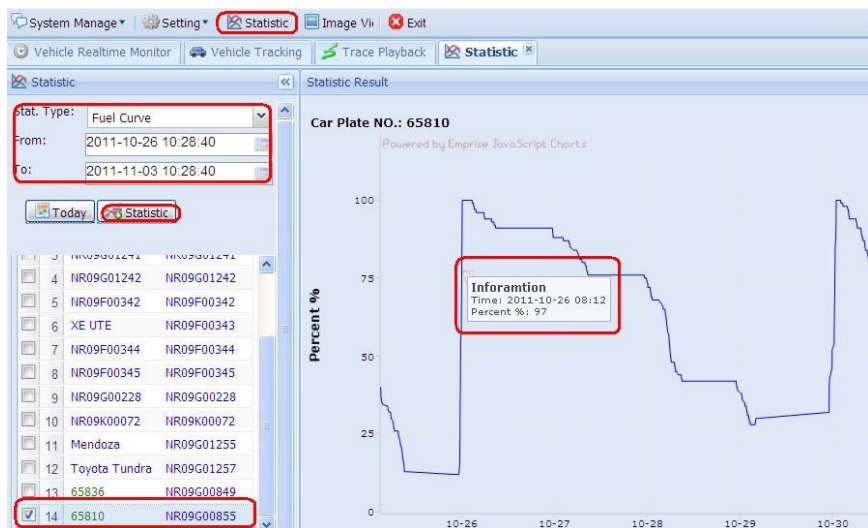
1 choose vehicle → 2 start time → 3 inquire time → 4. setup review speed → 5 start review process you can know that time date , speed , way and distance sum.



## 6.4 View image

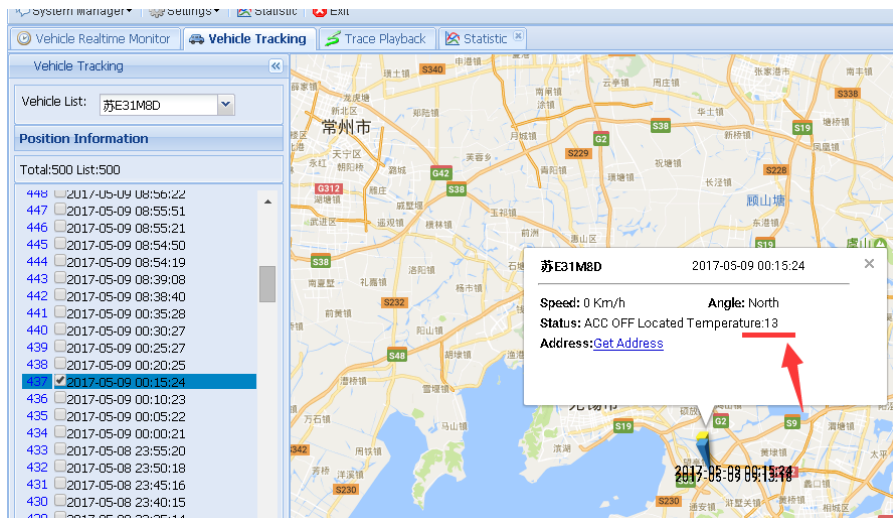
1 Select date range→2Select Vehicle→3View Image →4Click the time link to display image →5Image



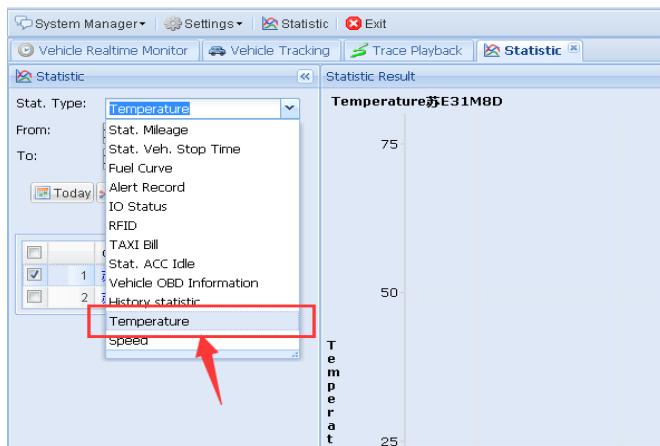


## 6.5 Temperature monitoring

Real time temperature on map and temperature curve of history



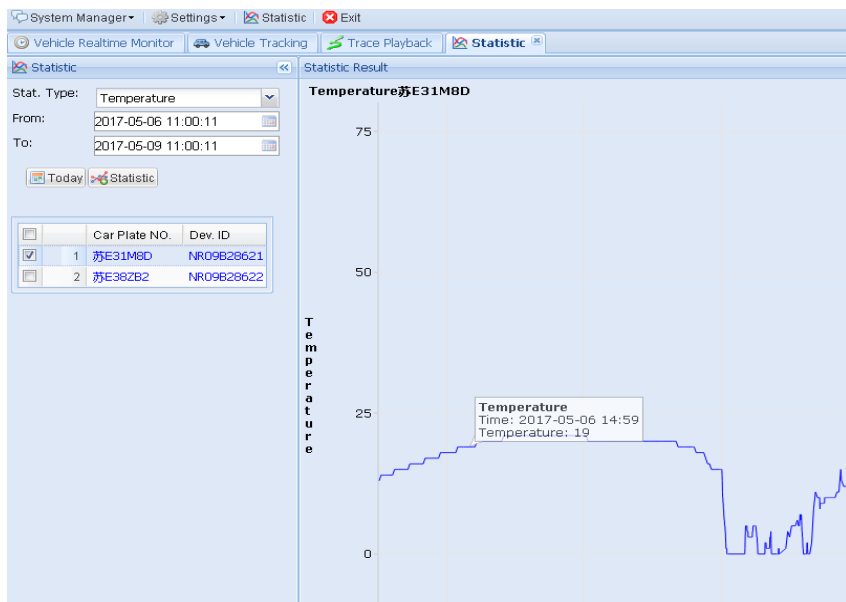
Step3: select [statistic]→ Temperature



Step4:select

vehicle → Date&time[from → to] → click [statistic]

move the mouse on the fuel curve, it will show time/percent



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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** 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.
- 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 & your body.