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**TLT-2H**  
**User Manual**

**GPS/GSM Vehicle Tracker**

**V 500**

## **1 Prelude**

### **1.1 Brief Introduction**

The TLT-2H GPS/GSM Vehicle Tracker combines GSM & GPS technology perfectly, owns compact size and elegant appearance, and carries top technology style. It is the typical model of the combination of communication products and GPS/GSM Vehicle Tracker.

This product shows advanced technology strength in GSM & GPS field. As a professional security and locating company, we will provide you more and better products and service.

Before you use it, please spend some time to read this guide to know the operation details, so as to get better service.

### **1.2 Caution**

1.2.1 Please read this handbook carefully and operate in right way, to avoid anything wrong;

1.2.2 You need to choose a safe place to install your product, some dangerous places such as car airbag, and somewhere easy to hit driver or passengers when there is an accident, are all unsuitable to place products. Besides, please don't operate it when driving, to avoid unnecessary accidents.

1.2.3 The introduction in this book is just for your reference, if some of the content or operating procedures are different from the real products, please follow the products. If you have any questions please visit our Web site.

## **2 About the device**

The TLT-2H GPS/GSM Tracker is a vehicle remote position device with build-in GPS and GSM/GPRS modules. It is a small size, high accuracy remote location tracking device. Based on GPS satellite, it provides accurate position information under dynamic conditions. Personal remote position device transmit the longitude and latitude coordinate to authorized cell phone.

### **Applications**

z TLT-2H GPS/GSM vehicle tracker mainly uses for motorcycle, electric golf cars, and ordinary car. The devices built in antenna, integrative machine and easy to assemble.

- z You can use these features for a security purpose and other purpose which needs remote positioning such as asset protection and tracking.

## 2.1 Components



## 2.2 Features

1. Support GSM 850/900/1800/1900 MHz. Works worldwide!
2. High sensitivity, JRC low power GPS chipset!
3. Excellent for fixing the position even at a weak signal status, work well even in areas with limited sky view like urban canyons
4. Fast Signal Acquisition
5. Support single location and continuous tracking
6. Support alarm, have 3 preset phone number
7. Support check location and real-time and historical trajectory by SMS or Internet
8. SOS button send out exact location for immediate rescue/action.
9. Support cut-off electricity and oil function and recovery command
10. High reliability circuit design, in line with the automotive electronics industry standards

## 2.3 Specification

GSM module	MTK program, GSM 900/1800/850/1900 dual-band or quad-band Support the TCP protocol
------------	------------------------------------------------------------------------------------

GPS Chipset	JRC chipset
-------------	-------------

GPS sensitivity	-164dB
C/A Code	1.023MHz chip rate
Channels	210 channel all-in-view tracking
GPS frequency	L1,1575.42MHz
GPS Position Accuracy	2.5 meters, CEP
GSM Position Accuracy	Later will realize
Velocity Accuracy	0.1m/s
Time Accuracy	Synchronized to GPS time
Cold Start	35sec.,average
Hot Start	1sec.,average
Warm Start	30sec.,average
Altitude Limit	18,000 meters (60,000feet) max.
Velocity Limit	515 meters/second (1000knots) max.
Acceleration Limit	Less than 4g

## 2.4 Others

Operating temperature	-20°C E 65°C
Humidity	5% To 95% Non-condensing
Dimension	88mm×46mm×18mm
Voltage	12V
Average Current When stand-by	<84mA
LED	Green/ Blue/ Red LED showing GPS a GSM and power status
Out set SOS Key	One SOS emergency key: for urgent call

## 2.5 LED State Description

Blue LED--- indicate the GSM signal state

**State**

**Means**

--	--



constant Lighting	no SIM card or not GSM net
flashlight once interval 8s	GSM receiver work well and standby
flash quickly	voice calls or in GSM connection

Red LED---indicate charge sate

State	Means
constant Lighting	charging
No light	charging was completed

Green LED--- indicate the GPS signal state

State	Means
No Lighting	Working, but no location
Flashing	Working and has located

### 3 Get Started

#### 3.1 Products

1┆TLT-2H GPS/GSM Vehicle Tracker

2┆Power cable

3┆Battery

3 Manual (CD)

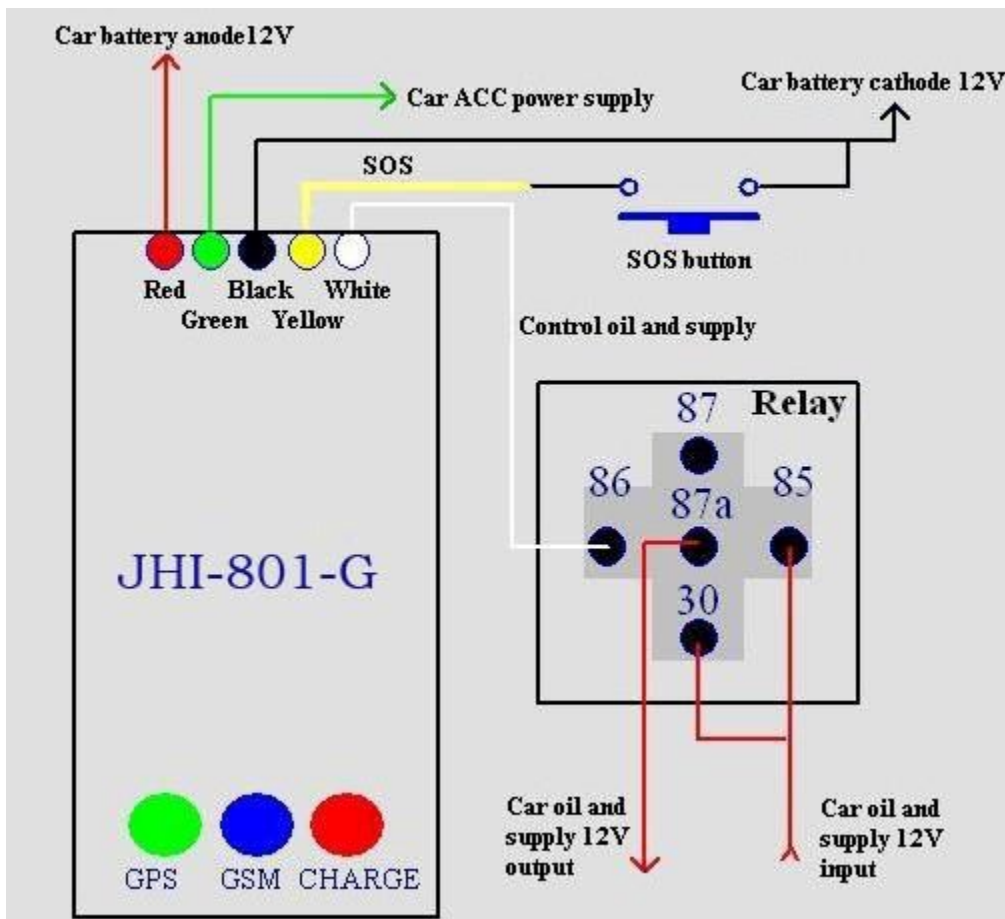
**3.2 Install SIM Card**

3.2.1 Draw out the rear cover, there is a slot for SIM card. Then push the card into the slot until it fully inlays, and ensure that it locks well.

3.2.2 Select SIM card

- You can use GSM card from Local Mobile.
- Make sure enough deposit in the SIM card, and support SMS/GPRS function.

**3.3 Wiring diagram**



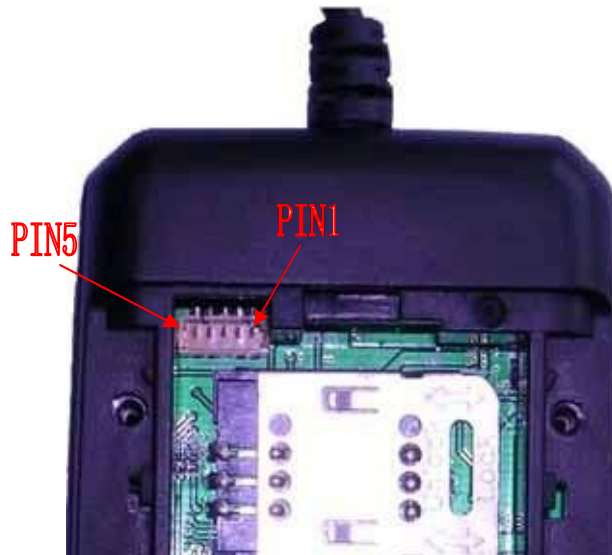
The external 5 wires of TLT-2H GPS/GSM tracker are as follows. Red for the 12V car power wire, connect to the car battery anode; Black for the earth GND, connect to the car battery cathode; Yellow for the SOS for help Control wire, connect external SOS switch button to car battery

cathode; Green wire connect ACC car power supply, that is, with the car CD, radio, and other automotive electrical appliances in parallel. When the vehicle key puts in the ACC gear, the green

line will examine the 12v voltage, the terminal will open the charge function automatically. White for cut-off oil and power control wire, connect to the relay coil 86, i.e. one end. Relay 85, i.e. another end connects to oil and power supply 12V. 30, 87a are normal closed-end, series in the oil and power supply circuit. Please note that if the installation of lead wire is right, if errors installation led to the equipment damage, At Own Risk, the company is not responsible for it.

**3.4 Reset:**

Under the shutdown state, short circuit PIN3 and PIN4 of 5pin socket in the back of TLT-2H shell, then connect the built-in battery or external power supply, 5 seconds after boot disconnect PIN3 and PIN4.



List of reset state:

Configuration	State
Working Mode	Unchanged
Pre-set phone numbers	None
User passwords	0000
GPS	Open
Send regularly location information	Off
The number of return to base stations	1
Calling switch	Open

Electronic fence	Close
------------------	-------

GPRS services password	0000
GPRS user name	V300Q
APN	CMNET
IP address	0.0.0.0 0000
GPRS data upload	close
Alarm when cut off power	Open

## 4 Functions & Operation

### 4.1 Position service based on SMS operation

In this mode, TLT-2H can be stored three preset telephone numbers (1, 2, and 3) and a 4-digit user password. The related configuration content that users set by SMS order is non-volatile. After the success, the state has not affect by switching power, until once again receives the relevant instructions or reset operation to change.

#### 4.1.1 Power on

Put on the batteries, connect with the power, product will automatically open.

#### 4.1.2 Switch the mode instruction

Format:  $\text{☎}700+$  user password (4 figures)

eg: 7000000

Explanation:  $\text{☎}$ When TLT-2H tracker receives the SMS and confirms the user password correctly, it switches to the SMS application mode. After the success, it will send the confirmation messages (SET MODE OK, CURRENT MODE: SMS P2P) to the sender.

#### 4.1.3 Set up the user password instruction

Format: 777+new password (4 figures) +old password (4 figures)

eg: 77712340000

Explanation: When TLT-2H tracker receives the SMS and confirm the user password correctly; changes the new user password to the old password. After set successfully, it will send the confirmation messages (SET USER PASSWORD OK) to the sender.

#### 4.1.4 Change the telephone number in advance instructions

Format: \*new numbers with 4-20 figures \* user password (4 figures) \*location number (1-3) \*\*

eg: \*13900000000\*0000\*1\*\*

Explanation: You can store 3 telephone numbers at most in advance. When TLT-2H tracker receives the instruction and confirms the user password correctly, substitutes the new number for the existing number. After success, it will send the confirmation messages (SET USER NUMBER (1-3) OK) to the sender.

#### 4.1.5 GPS state setting instruction

GPS will enable on the on / off / adaptive three work states by send text messages command. GPS state is open after factory settings or reset.

##### 4.1.5.1 Open the GPS instruction

Format: 222+user password (4 figures)

eg: 2220000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, opens the GPS power. After the success, it will send the confirmation messages (GPS ON OK) to the sender.

##### 4.1.5.2 Close GPS instruction

Format: 333+ user password (4 figures)

eg: 3330000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, close the GPS. After the success, it will send the confirmation messages (GPS OFF OK) to the sender.

##### 4.1.5.3 Adaptive GPS instruction & Power-saving Function

Format: 100+ user password (4 figures)



eg 1000000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, it will close the GPS immediately, and send the confirmation messages (VIBRATION SENSOR ON OK) to the sender. The tracker built in vibration sensor, once monitors the track movement for change to open the GPS. If in 5 minutes, with not monitors the track changed in the movement to close GPS.

Note: If a long time on the highway or the flat road, the GPS may be in sleeping, and will not be awakened. Users can send 222 + user passwords to re-open the GPS.

#### **4.1.6 Single localization request instruction**

Format: 666+ user password (4 figures)

eg: 6660000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, reads the GPS information. No matter whether effective, the information with the replying base station which is the set of the original software will be sent to the sender.

#### **Data format:**

Lat: Latitude Direction (+/-) Latitude Value (Accuracy for 5 after the decimal point)

Long: Longitude Direction (+/-) Longitude Value (Accuracy for 5 after the decimal point)

Speed: Speed KM/H (Accuracy for 2 after the decimal point)

Direction: Direction (Accuracy for 2 after the decimal point)

Date: Date YYYY-MM-DD

Time: Time HH:MM:SS (GMT)

BS: Base Station information

Fix: Location state (A/V)

ID: IMEI

STATE: Message state

#### **Effective data format:**

Lat: +22.50500

Long: +114.01000

TLT-2H GPS/GSM Vehicle Tracker User Manual V 2.0

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: A

ID: 353686009002030

STATE: SMS

**Invalid data format:**

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: V

ID: 353686009002030

STATE: SMS

Note: If in the cold start and GPS no position, it will return to the void of information:

eg: ERROR GPS GPRMC FRAME DATA

BS: 27971054”

ID: 353686009002030

STATE: SMS

**4.1.7 Send the positional information in fixed time instruction**

Format: 4 xx + user password (4 figures)

eg: 4010000

Explanation: x indicates one figure from 0 to 9, while “xx <60”, its unit is minute. while “xx

>60”, its numerical value is “xx minus 60” and unit is hour, in other words, 61 is 1 hour, 62 is 2 hours, followed by analogy. When TLT-2H tracker receives the instruction and confirms the user password correctly, it establishes the current time for initial timing time, xx is the gap time, and

sends the confirmation SMS to the sender's mobile phone (TIMER START, REPEAT INTERVAL :< X>MINUTES). Then start to time and send the format as 4.1.6 setting information when it arrives the gap time, the information state item automatically updates STATE: TIMER. When "xx=00", cancels the positional information in fixed time instruction, and sends the confirmation SMS to the sender's mobile phone "TIMER STOP".

Attention : at present, this version only support at best 2 hours interval , if you want to add the time of interval, please contact us, we can do this for you specially.

#### **4.1.8 Calling switch instruction**

Calling OFF format: 150 + user password (4 figures)

eg: 1500000

Calling ON format: 151 + user password (4 figures)

eg: 1510000

Explanation: When TLT-2H tracker receives the instruction to close calling and confirms the user password correctly, close the calling function (including the SOS, alarm when across the fence, and alarm when cut off power), after successfully, sent the confirm information "SET VOICE CALL: OFF" to the sender. When TLT-2H receives instruction to open calling and confirm the user password correctly, open the calling function (including the SOS, alarm when across the fence), after successfully, sent the confirm information "SET VOICE CALL: ON" to the sender.

#### **4.1.9 Telephone localization function**

Explanation: One of 3 telephone numbers stored in advance calls in, and hangs up after ringing 2-5 times, then the TLT-2H will send the location information to this number such as 4.1.6 to this number, the information state item automatically updates STATE: CALL. But other incoming numbers will automatically hang up.

#### **4.1.10 Seeking help initiatively**

When press the key more than 3 seconds, it will send the location information such as 4.1.6 to 3 telephone numbers stored in advance, the information state item automatically updates STATE: SOS. At the same time, call the first user telephone number. If it is unsuccessful (closed or unable to

connect or no response), starts calling the second and the third in turn.

Note: If the "Calling State" function is off, it will not call the user telephone number, and only send messages to the present number.

#### 4.1.11 Electronic fence function

Electronic fence takes the set coordinates as the center, the set radius parameters to determine the scope of the fence. When open this feature, once the TLT-2H beyond the scope of the set fence, it will send location information as to 4.1.6 to the 3 preset numbers. The information state item automatically updates STATE: OS. At the same time, call the first user telephone number. If it is unsuccessful (closed or unable to connect or no response), makes vibration and starts calling the second and the third in turn.

When the TLT-2H re-enters the fenced area, it will immediately send location information format 4.1.6 to the three preset numbers. The information state item prompts STATE: RS. At the same time, call the first user telephone number. If it is unsuccessful (closed or unable to connect or no response), makes vibration and starts calling the second and the third in turn.

##### 1) Set the scope of the fence

According to the input formats different of coordinates, user can choose the format as follows instructions to operate.

Format1 ☎003+ user password E/Wdddmm.mmmmN/Sdd.mmmmRzzz.z

eg: 003xxxxE11406.0024N2233.4230R1

Explanation: E-- east longitude; W-- west longitude; N-- north latitude; S-- south latitude. In this example, uses E and N, please according to the actual geographical position choose corresponding coordinate form to set. In the demonstration, meanings of various parts are as follows:

**Edddmm.mmmm** is longitude information with units of degrees and minutes, and the ddd expresses degree, mm.mmmm expresses minute (Accuracy for 4 after the decimal point, the following zero cannot bypass)

**Ndd.mmmm** is latitude information with units of degrees and minutes and the dd expresses degree, mm.mmmm expresses minute (Accuracy for 4 after the decimal point, the following zero cannot bypass)



Rzzz.z is radius for the domain (999.9 - 0.1), unit for KM.

When the tracker receives this instruction, judges to be authorized users and confirms the user password correctly, it will send the confirmation messages "SET GEO-FENCE OK" to the sender.

Format 2: 004+ user password E/Wddd.dddddN/Sddd.dddddRzzz.z

eg: 0040000E114.10004N22.55705R999.9

Explanation: E-- east longitude; W-- west longitude; N-- north latitude; S-- south latitude. In this example, uses E and N, please according to the actual geographical position choose corresponding coordinate form to set. In the demonstration, meanings of various parts are as follows:

Eddd.ddddd is longitude information with units of degrees, and the ddd.ddddd expresses degree (Accuracy for 5 after the decimal point, the following zero cannot bypass)

Ndd.ddddd is latitude information with units of degrees, and the ddd.ddddd expresses degree (Accuracy for 5 after the decimal point, the following zero cannot bypass)

Rzzz.z is radius for the domain (999.9 - 0.1), unit for KM.

When the tracker receives this instruction, judges to be authorized users and confirms the user password correctly, it will send the confirmation messages "SET GEO-FENCE OK" to the sender.

Note: 1. Radius of the fence can not exceed the definition of its domain; the value of the decimal part for zero must input zero fill. For example: R=1, it is important to enter into 1.0.

2. If the calling state is off, it will not call the user telephone number, and only send messages to the present number.

3. Degree and minute is divided into sexagesimal system converter, that is, 1d = 60m

Format 3 : 005+User Password Rzzz.z

eg: 0050000R0.1

Note : When this unit receive this command and confirm the password is right. And read the Update gps data whether is available. If ok, take the lat/log to the coordination, and the R for The Radius, and also pen the Geofence at the same time. If the configuration is ok. The unit Will send "set geo fence ok " to the sender. If the update GPS Data void, the unit will give up and then red the next one, if the unit can't receive the data above 50sec, the unit will send A message to the sender which is "ERROR GPS DATA, TRY AGAIN LATER"

After set ok, the unit will come back the original state.

2) open the electronic fence: 211 + user password

After set successfully, it will send the confirmation messages "GEO-FENCE ON" to the sender.

3) close the electronic fence: 210 + user password "ERROR GPS DATA, TRY AGAIN LATER"

After set successfully, it will send the confirmation messages "GEO-FENCE OFF" to the sender.

#### **4.1.12 Cut-off electricity and oil function**

1. Open the cut-off electricity and oil function

a. Command format: 900 + user password

b. Confirm command format: 901 + user password

c, Directly Command : 940+ user Password

Note : 940=900+910 , the unit will implement this command at once after receive this command.

Description: Due to the command with a certain degree of risk, so needs to do a more confirmation operation. When the user need to cut-off electricity and oil, using a mobile phone to send format a command, the device will return to: "Confirm Power OFF?" after it receives the order and confirm the user password correct. If it receives the user sending format b command in ten minutes and confirms password correct, white wire will output low level in order to control the outside relay to cut off oil and electricity. After completion, send confirmation message "POWER OFF OK" to the user.

2. Cut-off electricity and oil function to recovery command

a. Recovery command: 902 + user password

b. Confirm the recovery command: 903 + user password

Description: When the device receives the cut-off electricity and oil function to recovery command by the preset user numbers and confirms the password correct, will send the confirm information "Confirm Power ON?" to the sender, and then prepares to receive the confirm command. If within 10 minutes the device receives the users confirm command, white wire will output high level in order to control the outside relay to recovery oil and electricity. After completion, send confirmation message "POWER ON OK" to the user.

c, Recovery Command instant

941+user Password

Note : 941=902+903 the unit will implement this command at once after receive this command.

#### **4.1.13 Alarm when cut off power function**

1. Open command o: 011 + user password

eg: 0110000

2. Close command: 010+user password

eg: 0100000

Description: When the TLT-2H receive the armament command from the preset number and verifies the user password correct, after success, it will respond to confirm the information "DEFENCE ON", into the armament state after 10 seconds. When the main external power supply was illegally cut off, the TLT-2H will automatically send the current location information format as 4.1.6 to the 3 preset numbers, STATE items for: DEF. At the same time, call the first user telephone number. If it is unsuccessful (closed or unable to connect or no response), starts calling the second and the third in turn. When the TLT-2H receives the disarmament command from the preset number and verifies the user password correct, after success, it will respond to confirm the information "DEFENCE OFF", repeal disarmament. TLT-2H is no longer monitor the illegal cutting external power supply case.

Note: 1. After leave factory or reset, it is the disarmament state. It does not effect by boot until receives the command or reset.

2. If the calling state is off, it will not call the user telephone number, and only send messages to the preset number.

#### **4.1.14 ACC detect charge function**

Description: TLT-2H using ACC detect line achieve car battery charge the TLT-2H built-in battery when driving, stop charging when parking.

#### **4.1.15 Low voltage warning**

When the TLT-2H 's working voltage lower than the set, to read the GPS information, whether or not effective, immediately send the format as 4.1.6 location information to the three stored numbers, the information state item automatically updates STATE: LP. Send a total of three times,

each time one minute interval.

#### 4.1.16 Upload the history data

Record the history data:

If you want to use this function in SMS Mode, you need to change the mode in GPRS and set the IP, APN, the detail way you can see the manual.

1, configuration

Format : #807#user password #X##

Note: X is frequency, the area is (0,999 ), the unit is "second". When the unit receive this command and confirm the password is right. And set the history frequency is X. When the X=0, that's close the function. If X=30, that's mean that the unit will save the data every 30se, if the command is ok, then send "SET SAMPLEING OK" to the unit.

1, the memory of every data is 100B

2, the memory of the unit for the history is 864KB. For example, if you set the X=30, it's about can save the data of three days . If X=300, it's about can save the data of thirty days. When the data is above 864KB,the next new data will cover the oldest data.

3, if the air sensor is open and also the unit is not move for a long time, the history record will close and the unit will open once the unit is moving again.

2, Upload the history data

A: upload the history data of 24h

Format : #808#user password #24##

When the unit receive this command and confirm the password is correct, then send "START UPLOAD ALL HISTORY RECORD" and then send all of the data to the server. The format is like 4.1.16 .the state is "STORAGE"

#### 4.2.16 Overspeed Alarm Function

Format:#122#Password#X##

Eg: #122#0000#250##

Note : X is mean reference value, and the unit is mail/hours(KM/H), the area is (0,999), when the unit receive this command and confirm the password is correct,

Then implement this command. X=250 is mean that when the speed of the car is

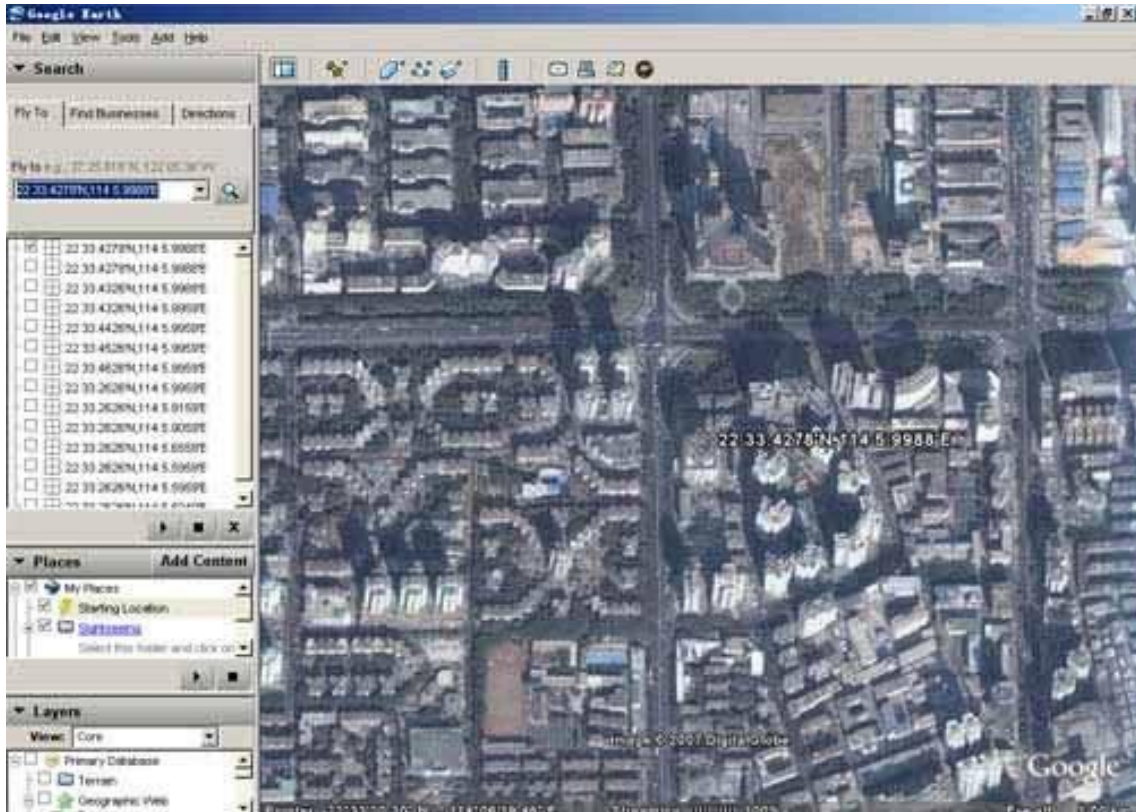
Above 250KM/H, the unit will send a message to the threes users ,the format is like 4.1.6 and the state is "OVER SPEED". At this time, if the speed of the car is lower as 250KM/H, then the unit will send a message to the send which the state is "SAFE SPEED"

When you set the X==0, and at this time, the unit will close this function, when you set the X≠0, open this function, and then send a message to the sender which is "SET RATE LIMIT:X"

#### 4.1.17 Display the location on map

- 1) Download Google earth software from <http://earth.google.com>
- 2) Start the Google earth software. (For more information about Google earth software, please refer to <http://earth.google.com>)

As following picture shows:



(Note: pay attention to change the position date format)

Or you can start the internet explorer and copy <http://maps.google.com> to connect to Google map website for displaying the location map.

You can get the latitude & longitude date by sending “666+password” SMS command code to the GPS tracker TLT-2H . Input the latitude and longitude that you receive from SMS and click on search button, the Google earth will display the location map for you.

eg You receive the information from the tracker. As follows:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45


BS: 25ee0dff

Fix: A

ID: 353686009002030

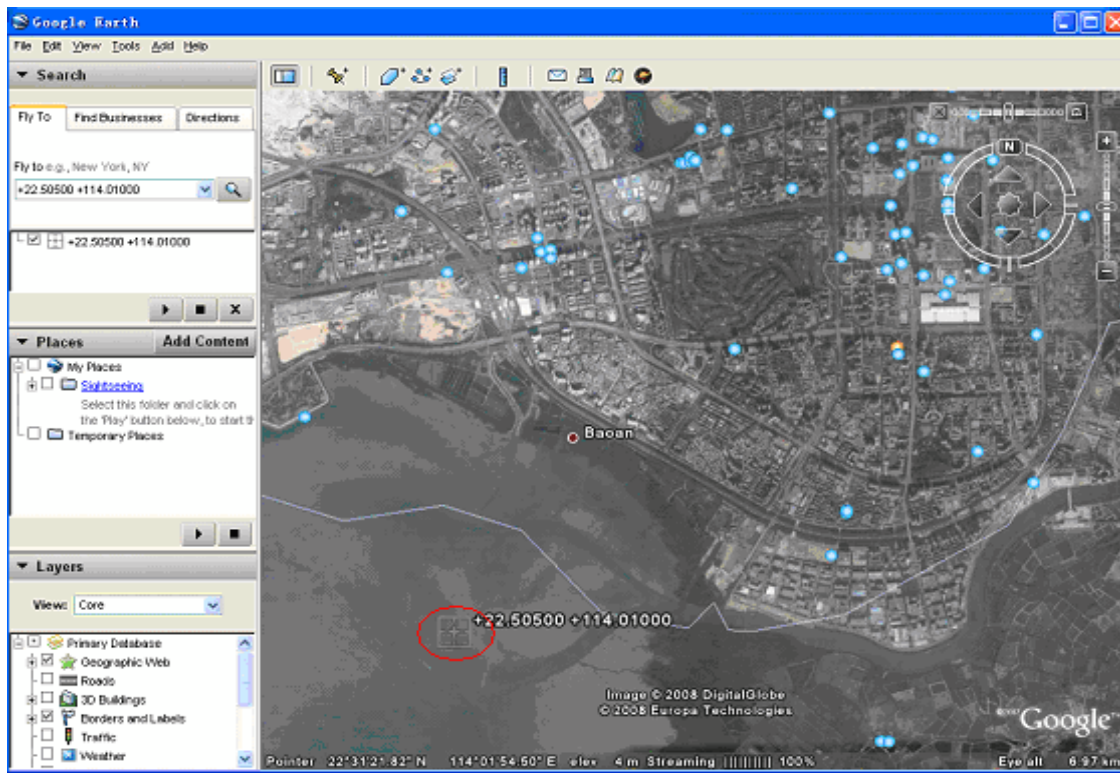
STATE: SMS



Search the position on the Google map, in relevant position input 

+22.50500 +114.01000

Obtain the following picture:



Or you can use local map software on PDA or car navigation device, input the position date. (Note: pay attention to change the position date format)



## 4.2 The operation based on the GPRS application

In this mode, TLT-2H can be stored three preset telephone numbers (1, 2, and 3), a 4-digit user password, a group of TCP / IP server IP address and port number, 4-digit GPS password and access point name of GPRS. The related configuration content that users set by SMS order is non-volatile. After the success, the state has not affect by switching power, until once again receives the relevant instructions or reset operation to change.

### 4.2.1 Switch the mode instruction

Format: 710+ user password (4 figures)

eg: 7100000

Explanation: When TLT-2H tracker receives the SMS and confirms the user password correctly, it switches to the GPRS application mode. After the success, it will send the confirmation messages (SET MODE OK|CURRENT MODE:GPRS) to the sender.

### 4.2.2 Set up the user password instruction

Format: 777+new password (4 figures) +old password (4 figures)

eg: 77712340000

Explanation: Confirm the user password correctly; changes the new user password to the old password. After set successfully, it will send the confirmation messages (SET USER PASSWORD OK) to the sender.

### 4.2.3 Change the telephone number in advance instructions

Format: \*new numbers with 4-20 figures \* user password (4 figures) \*location number (1-3) \*\*

eg: \*13900000000\*0000\*1\*\*

Explanation: You can store 3 telephone numbers at most in advance. When TLT-2H tracker receives the instruction and confirms the user password correctly, substitutes the new number for the existing number. After success, it will send the confirmation messages (SET USER NUMBER:1-3 OK) to the sender.

#### **4.2.4 GPS state setting instruction**

GPS will enable on the on / off / adaptive three work states by send text messages command. GPS state is open after factory settings or reset.

#### **4.2.4.1 Open the GPS instruction**

Format: 222+user password (4 figures)

eg: 2220000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, opens the GPS power. After the success, it will send the confirmation messages (GPS ON OK) to the sender.

#### **4.2.4.2 Close GPS instruction**

Format: 333+ user password (4 figures)

eg: 3330000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, close the GPS. After the success, it will send the confirmation messages (GPS OFF OK) to the sender.

#### **4.2.4.3 Adaptive GPS instruction & Power-saving Function**

Format: 100+ user password (4 figures)

eg: 1000000

Explanation: When TLT-2H tracker receives the instruction and confirms the user password correctly, it will close the GPS immediately, and send the confirmation messages (VIBRATION SENSOR ON OK) to the sender. The tracker built in vibration sensor, once monitors the track movement for change to open the GPS. If in 5 minutes, with not monitors the track changed in the movement to close GPS.

Note: If a long time on the highway or the flat road, the GPS may be in sleeping, and will not be awakened. Users can send 222 + user passwords to re-open the GPS.

#### **4.2.5 Single localization request instruction**

**TLT-2H GPS/GSM Vehicle Tracker User Manual V 2.0**

Format: 666+ user password (4 figures)

