

Dear users, functional setting of this software requires some expertise. Therefore, please carefully read and fully understand the instruction before use.



## **Intelligent Vehicle Monitoring System(IVMS Client)**

### **Operating Manual V2.1**



Thank you for choosing MJGT IVMS. Difference between software upgrading may result in features different from those described in the instruction, so Information contained herein is subject to irregular change without prior notice.



## Notes

Dear customer, because the software function is more professional, in order to ensure that you use this product correctly, to avoid danger or damage to property. Before using this product, please read this instruction manual carefully and properly

### **Statement**

Thank you for using this products, this manual is applicable to IVMS(Intelligent vehicle monitoring system), if you have any questions free to contact us anytime. Because of the software functionality or interface constantly perfect or software upgrade, so the product and operating instructions there may be a slight difference, we will not regularly updated manual, update the content of the will join in the new version, without prior notice!

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## Part 1、IVMS Client introduce

### 1.1 Client introduce

IVMS uses many methods including GPS satellite positioning system, the Internet, mobile communications and cloud computing to build a remote monitoring platform for customers. You can manage vehicle/person in different regions by IVMS.

IVMS includes some functions: wireless remote real-time video surveillance, GPS map positioning, vehicle history running track playback, voice intercom, alarm linkage, remote video storage, remote download video, remote video playback, local video storage, local video playback, regional management of the vehicle, the device remotely upgrade, etc.

### 1.2. IVMS install and uninstall:

#### IVMS Client Minimum Requirements

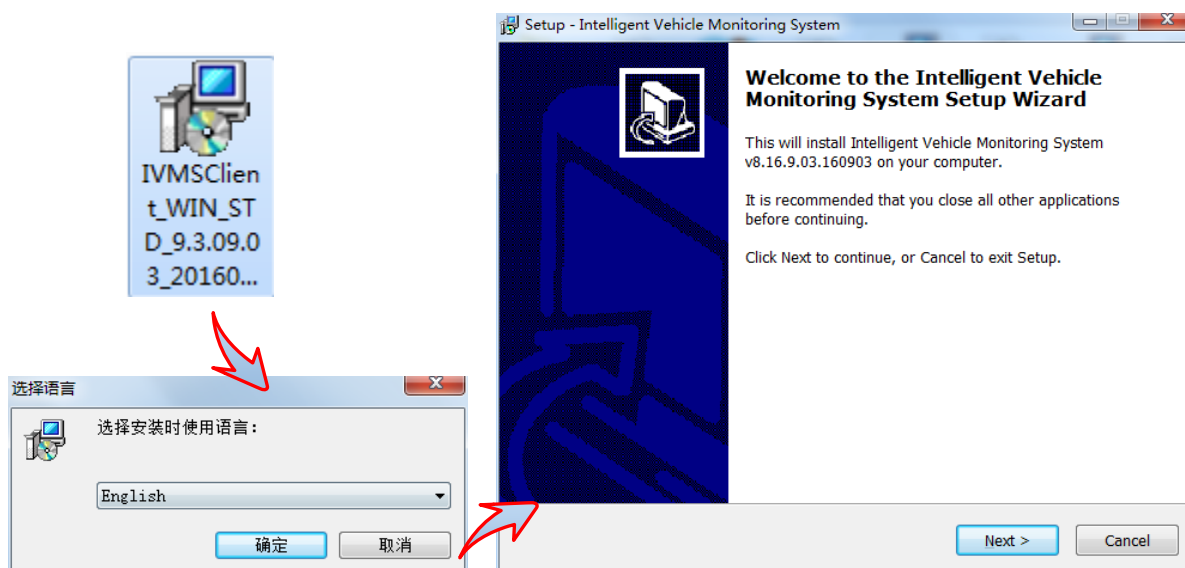
OS : Windows 7 or higher ( 32/64 bit)

Hardware Requirements:

- 1.5 GHz CPU or higher
- 2G RAM
- 512 G byte HDD
- 100M bit Ethernet
- Support directX9 graphics card, memory 32M +

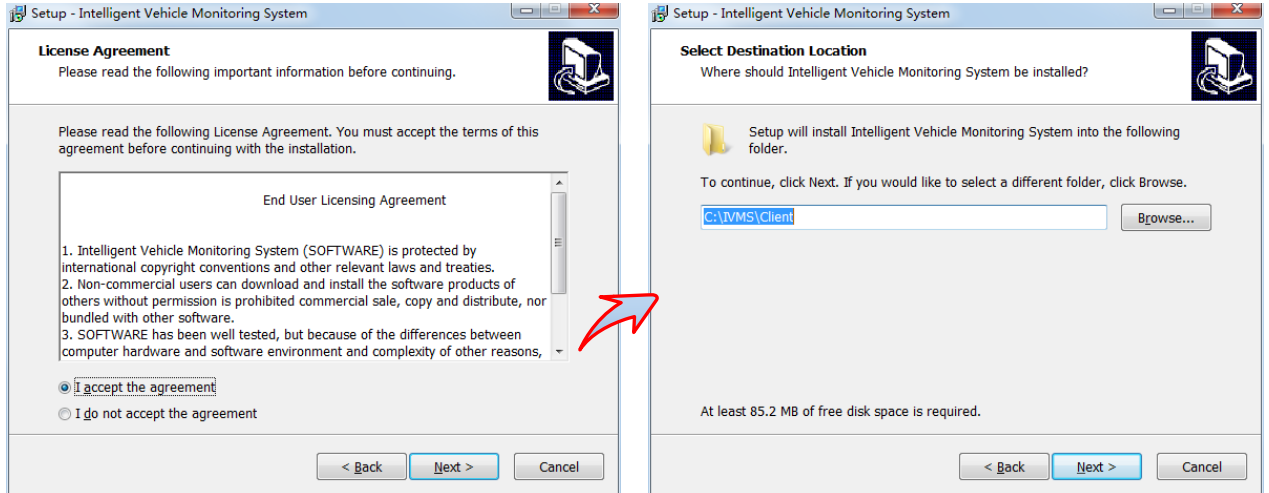
#### 1.2.1 Software install

(1) Double-click on IVMSClient.exe, choose "Simplified Chinese" or "English", click "OK". It will show the installation wizard dialog.

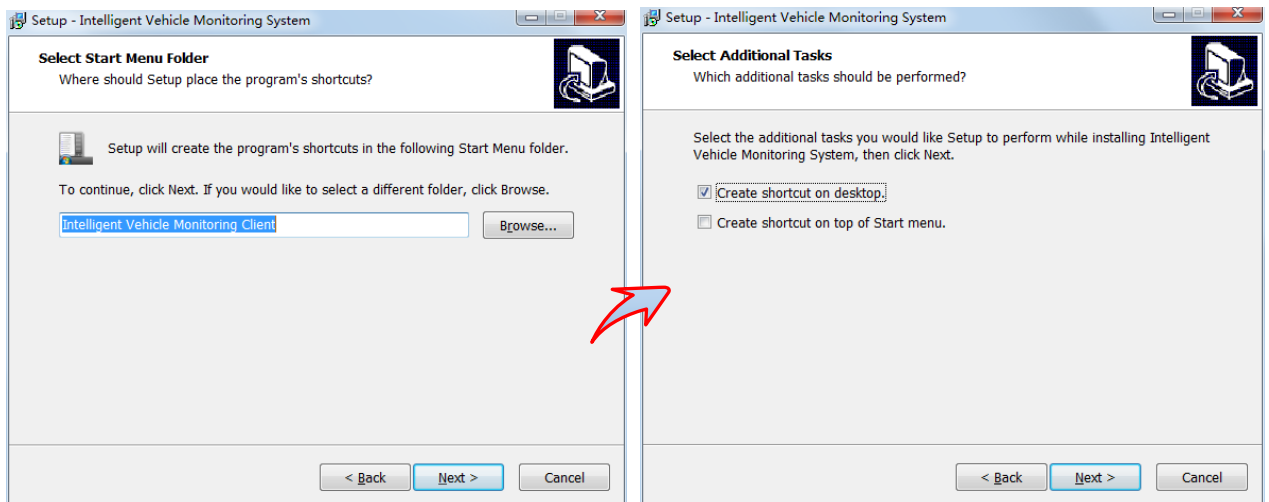


(2) Click "Next" choose "I agree the agreement" then enter the installation directory selection interface. (The Default directory is :C:\IVMS\Client). To Change the installation path, click on the

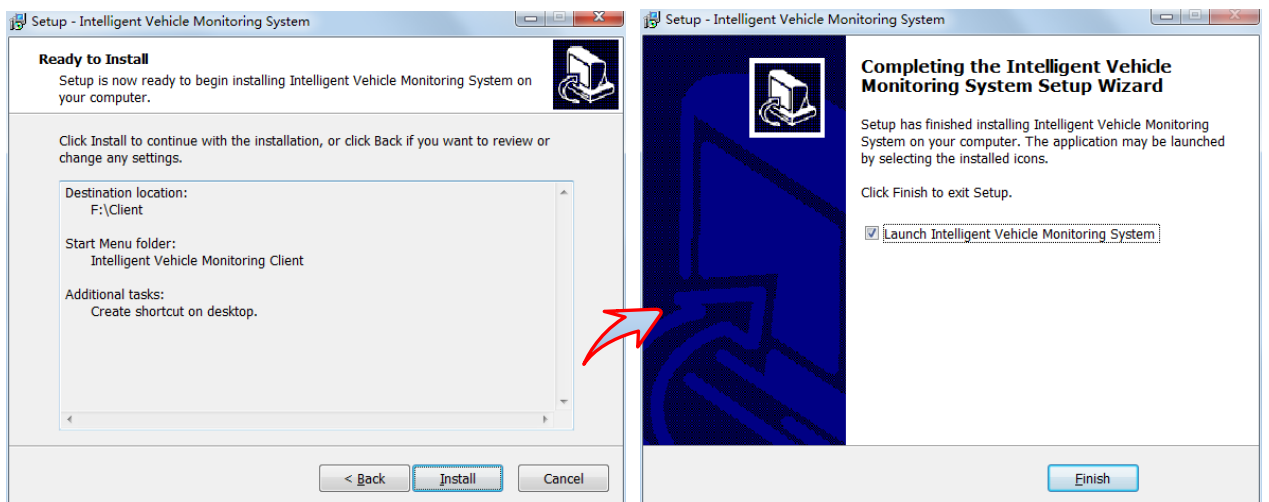
“Browse” button to select another path.



(3) Set a folder name in Start Menu, The Default name “Intelligent Vehicle Monitoring Client”. then click “next” choose Create shortcut on desktop.

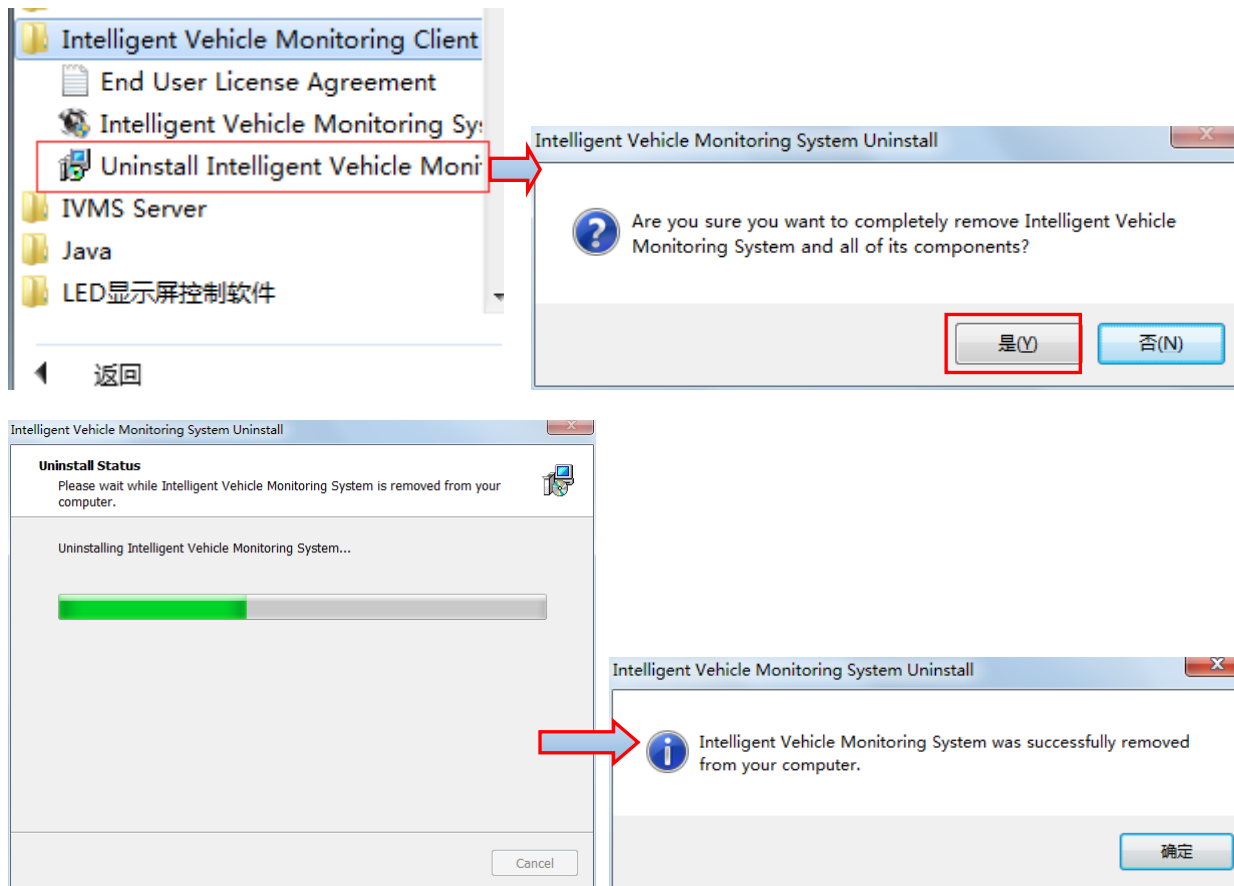


(4) click “next” you will enter ready to install interface, click “Install” and start to install it. After the software install finished you can click “finish” to launch IVMS.



### 1.2.2 IVMS Uninstall

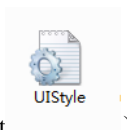
You can find the folder “Intelligent Vehicle Monitoring Client “in Start Menu---all program after install IVMS software successfully, enter this folder choose uninstall Intelligent Vehicle Monitoring Client, then click “yes”, you will uninstall this software.



### 1.3 The client interface introduced

IVMS client contain PC client and web client

PC client UI configuration function



Increase the UI configuration ( C:\IVMS\Client )

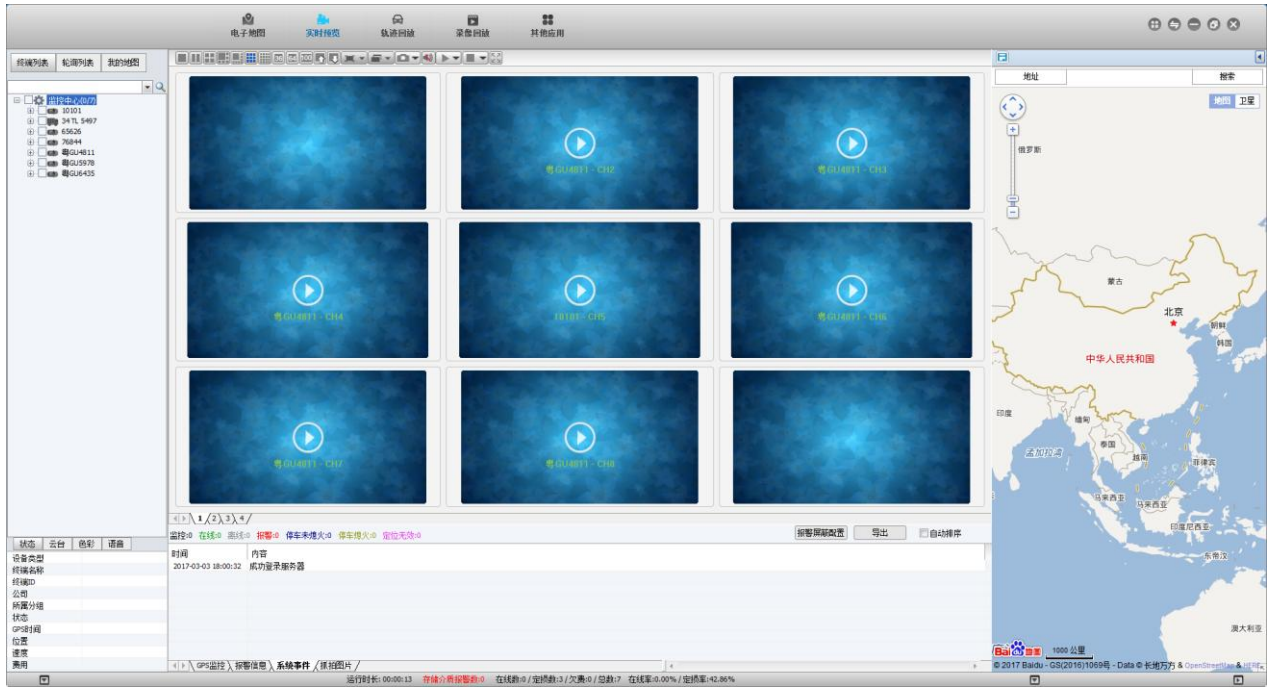
file: UIstyle.ini

[CONFIG]

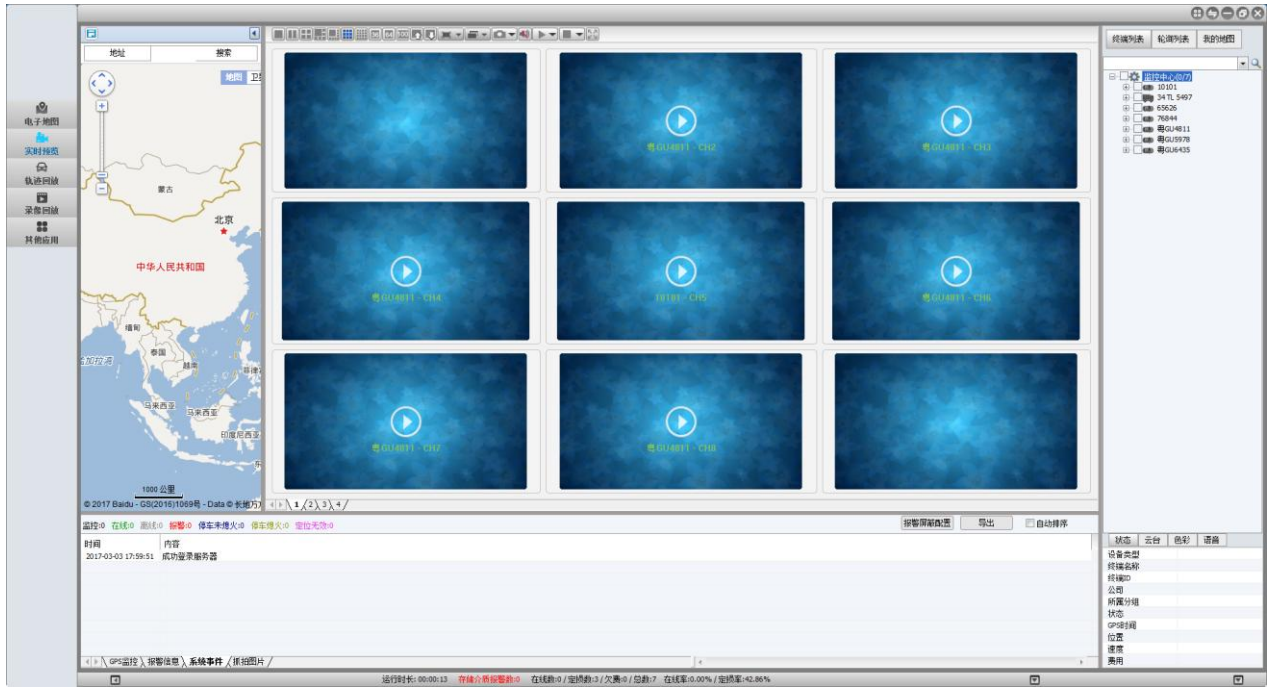
UI\_STYLE=1      1 is black UI, 2 is white UI

UI\_TEMPLAT=1   1 is default template,2 is classic template

White UI + classic template

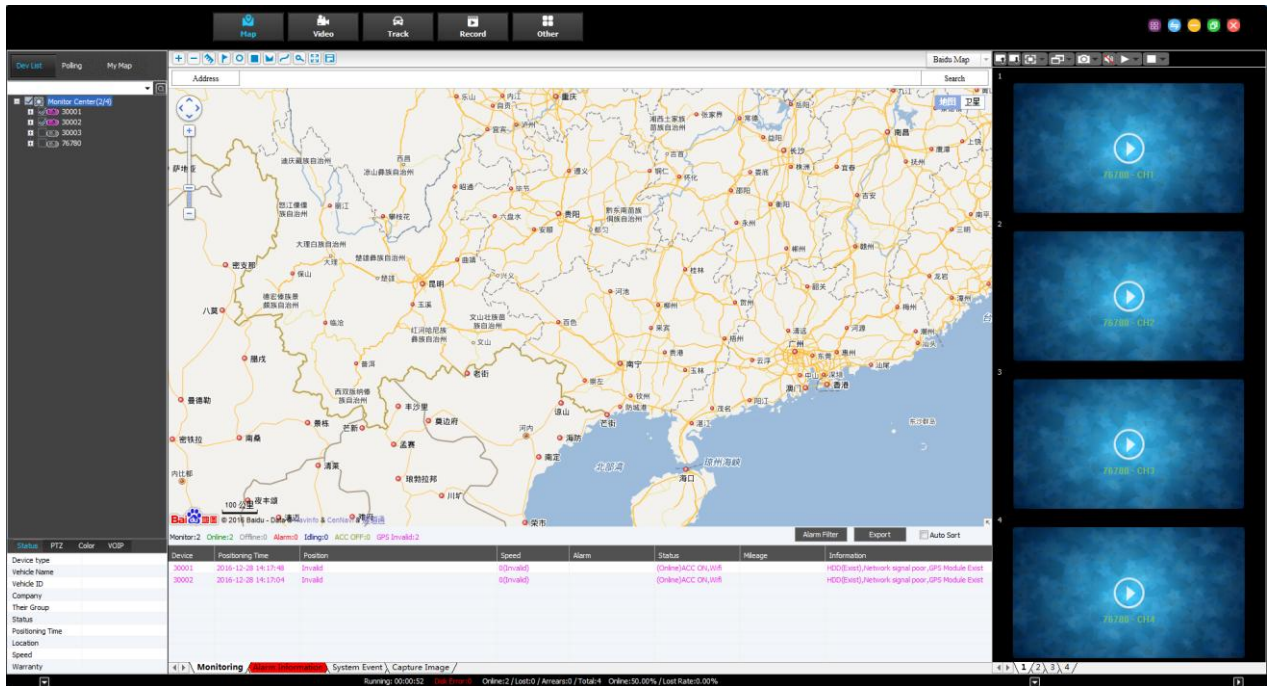


White UI + default template

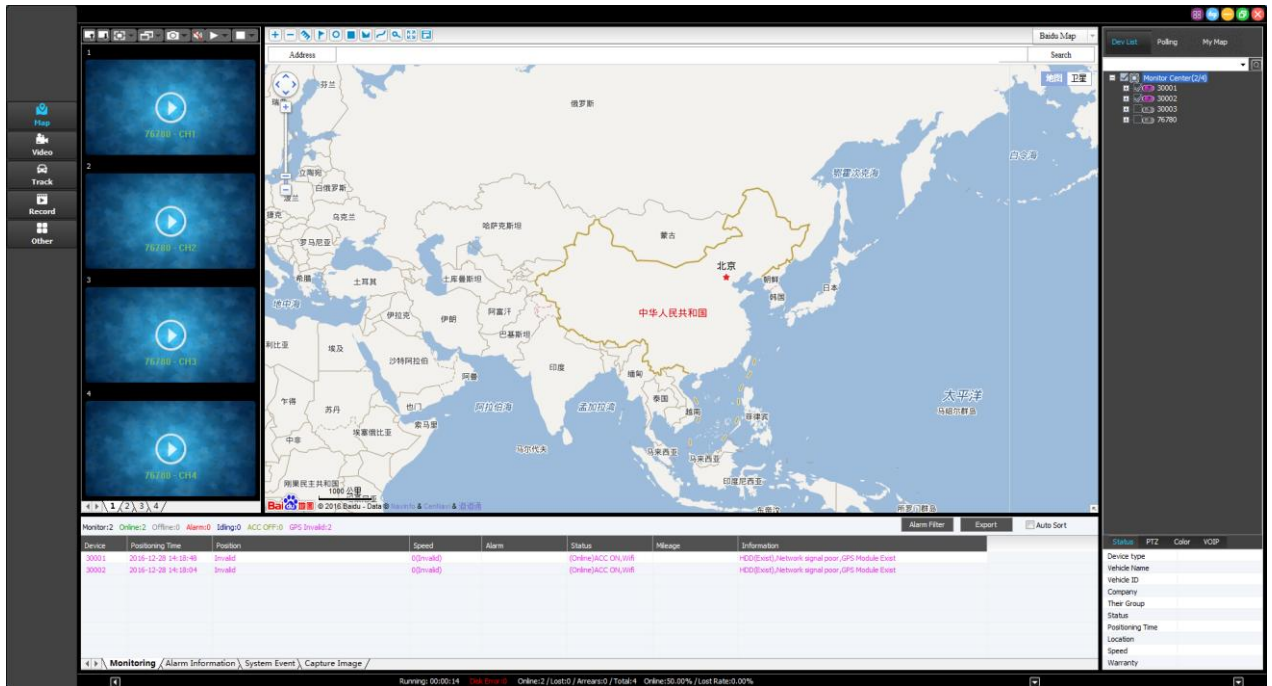


Black UI + classic template



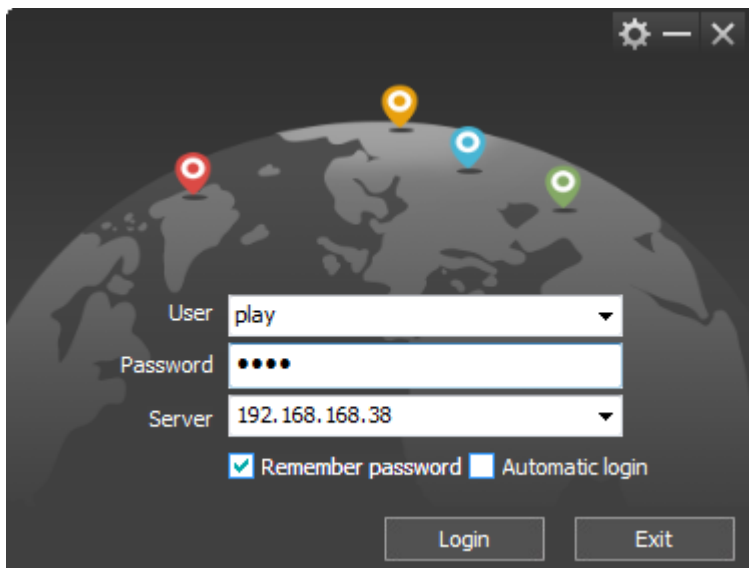


Black UI + default template



**Note: UI default template and UI classic template just a toolbar and menu list position is different;**

PC Client (black UI) Login screen:



PC Client (white UI) Login screen: :



### 1.3.1 PC Client

#### Taking an example of black UI + default template

IVMS main interface includes Menu and Quick Access Toolbar, Device List, Map Windows, Video Window, PTZ & VOIP and Information Display Windows.

**1.Menu :** Located in the upper right corner, it includes Map, video, map/video, track, record, event, full screen, about, etc.

**2. Toolbar:** Located in the left, it is the main control system, includes Map, video, track, record, other;

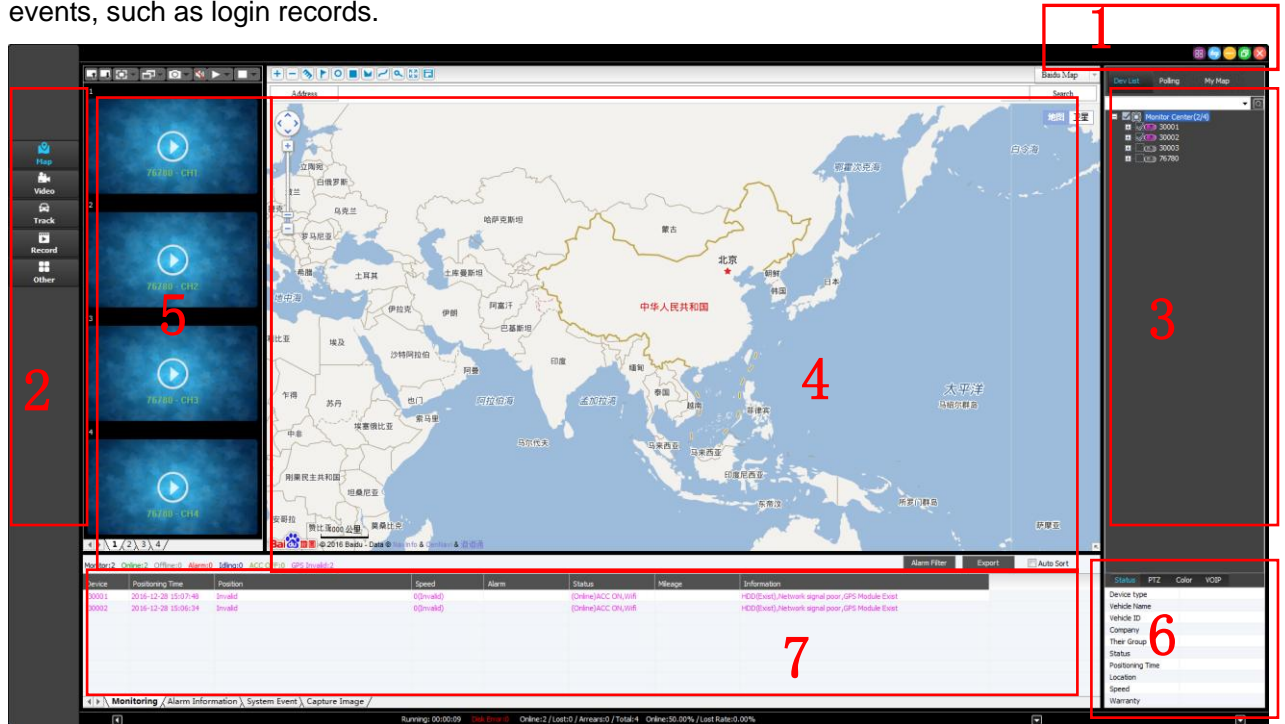
**3.Device Management List:** The device list is display the information of the vehicle. Video Polling List: IVMS will switch these custom-channel video within the specified time. And my map list use to display Point, surface, a recording of the area marked by the user on the map.

**4.Map Windows:** View on the map the location of the vehicle and other information.

**5.Video Window:** The overall situation of the vehicles and surveillance video.

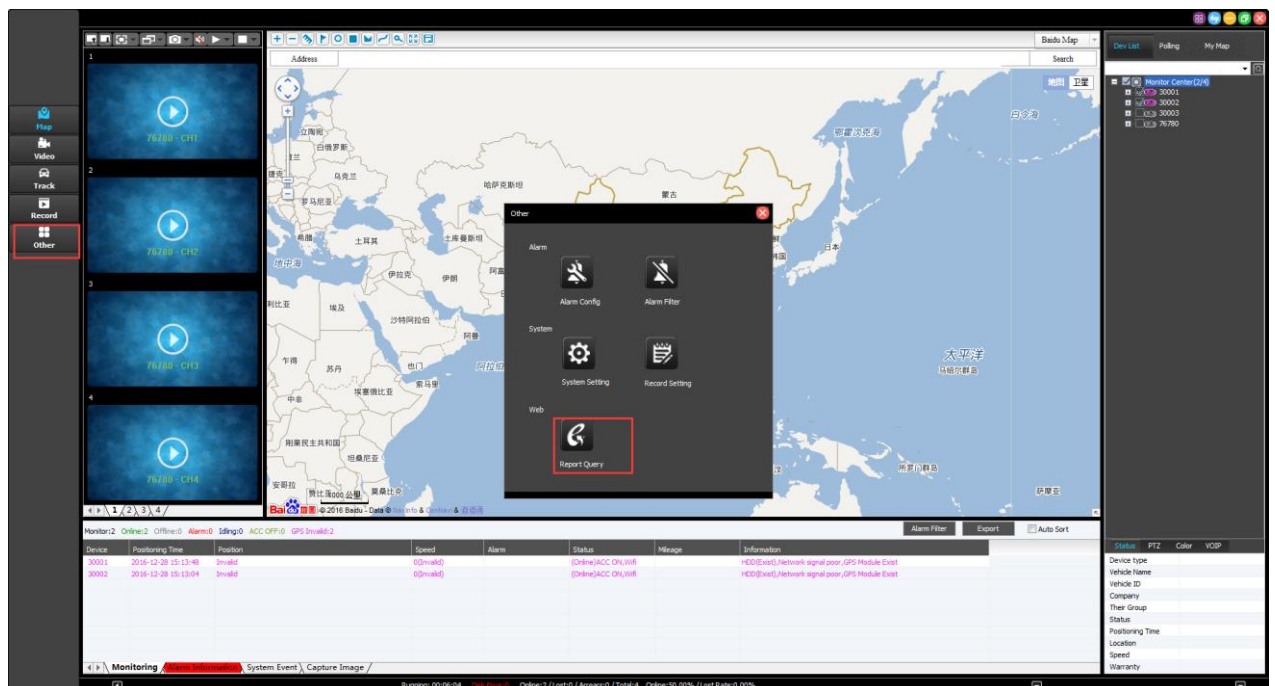
**6.Status ,PTZ and VOIP:** PTZ: Rotation angle, focus, aperture, lights, wipers; Voice: Voice speaking and listening.

**7.Information Display Windows:** Display the vehicle information, such as longitude, latitude, the driver, the speed, the vehicle state. The contents of the alarm information and Recording system events, such as login records.



### 1.3.2 Web Client

Login Web Client (Click on the toolbar: other, and then click on the Web “Report Query”)

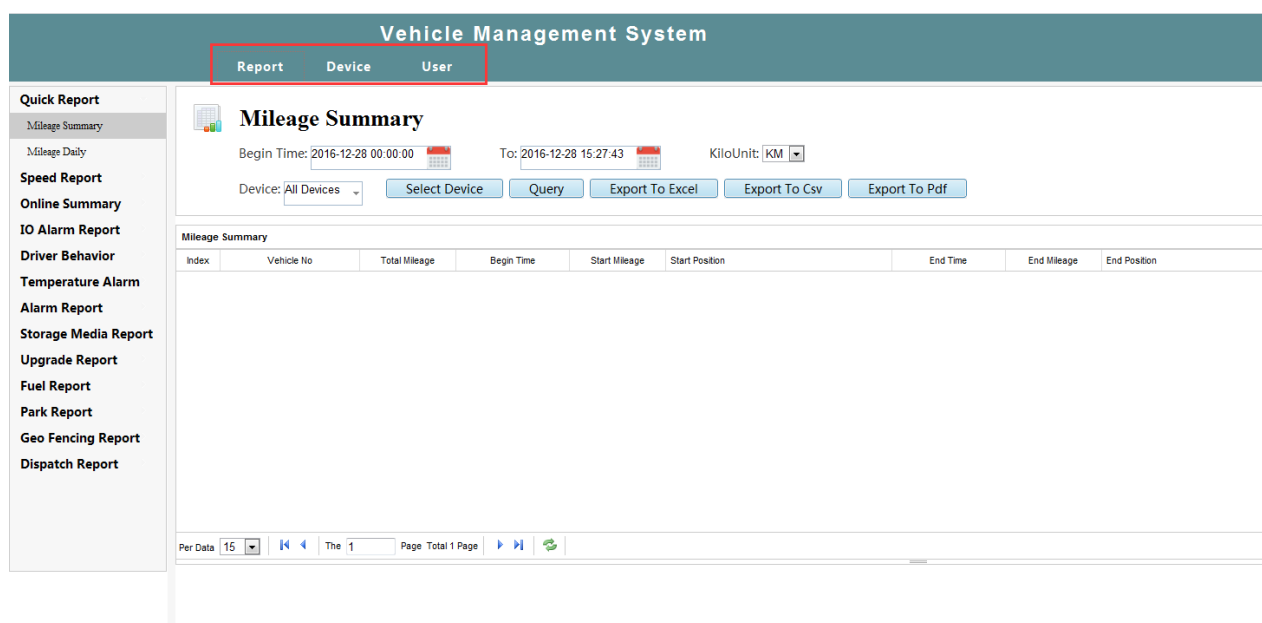


The client function is mainly divided into three parts, respectively is report, user management, device.

**1.Report:** Quick Report (Mileage Summary, Mileage Daily)、Speed Report、Online Summary、I/O alarm Report、Driver Behavior、Temperature Alarm、Alarm Report、Fuel Report、Storage Media Report、Upgrade Report、Park Report、Geo Fencing Report。

**2.Device:** Vehicle Parameter、Device Group、Fence Alarm、WIFI Download Plan、Snapshot Plan、Alarm Management、Driver、Vehicle Maintenance

**3.User:** User Maintenance、Authority、User Log、IO type

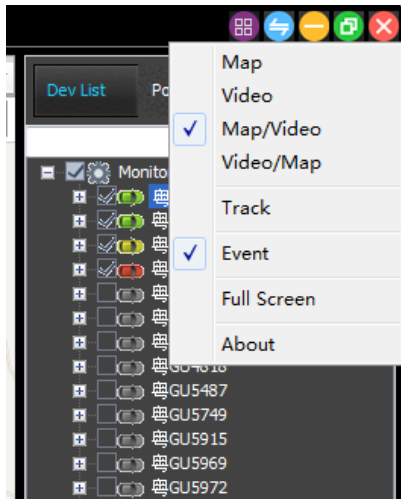
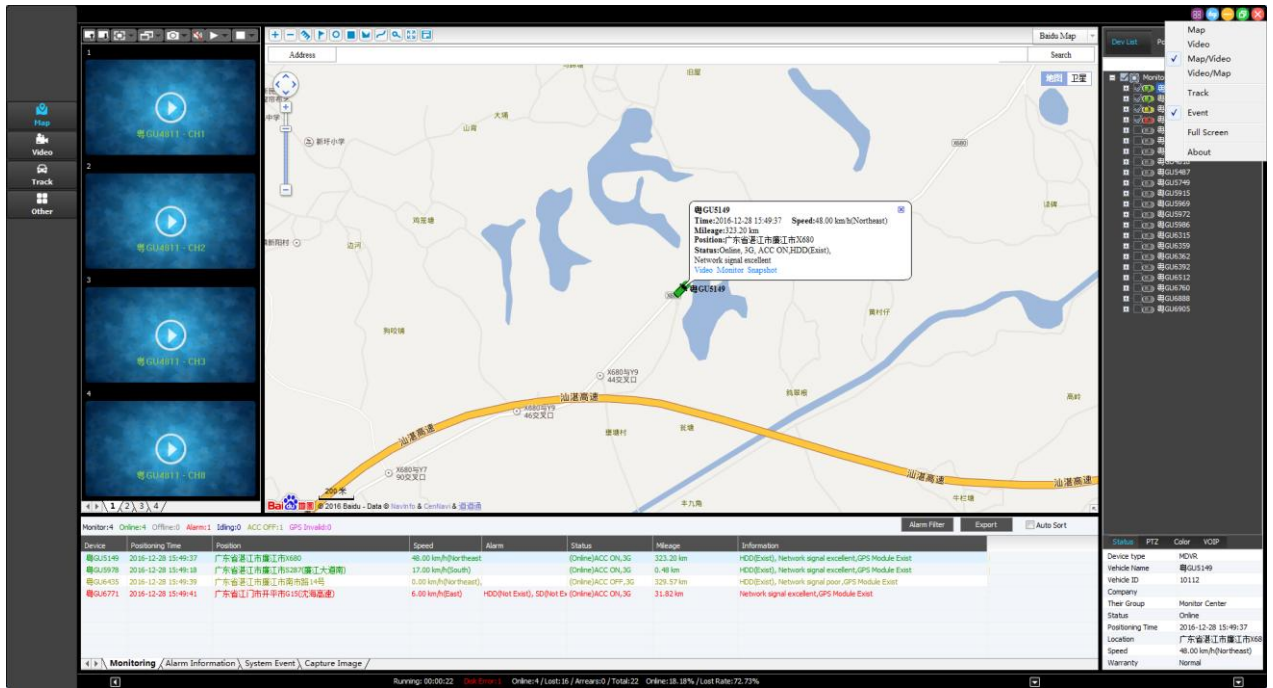


## Part 2、PC Client Function Introduce

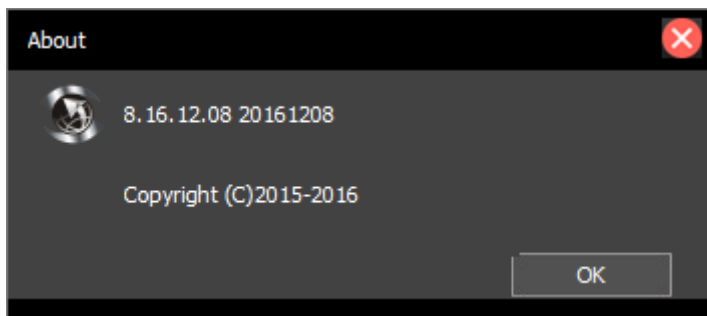
### 2.1Menu and Quick Access Toolbar

#### 2.1.1 Menu

Click on the PC client "view" button at top right corner, pop-up drop-down list, view menu includes maps, video, maps/video, video/map, track and events, full screen, about , select the left will be displayed after the "√", on behalf of the client will check form, at the same time also can through the shortcut icon to switch from the view of the toolbar.

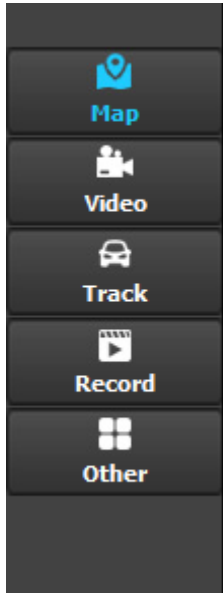


❖ About: For viewing IVMS software version.



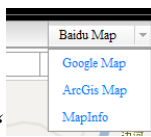
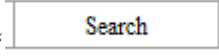

## 2.1.2 Quick Access Toolbar

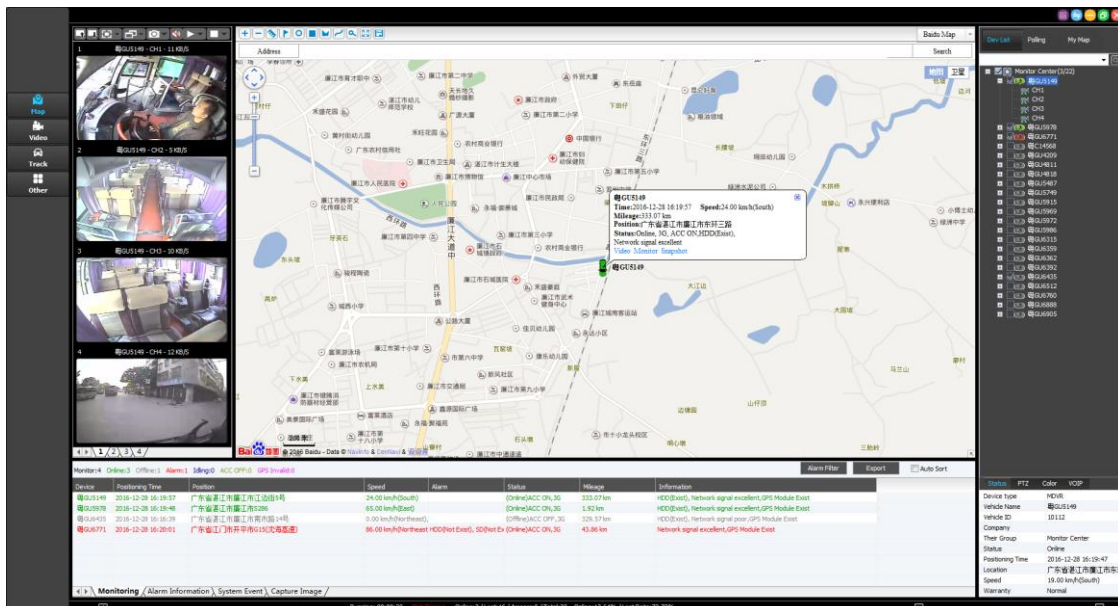
Via the toolbar fast switching IVMS view client software.



### 2.1.2.1 Map

This part display the GIS map and vehicle GPS location, when click the vehicle ID, this vehicle will have a vehicle icon draw centered in the GIS map. And the vehicle information contain time, mileage, position, status, SD/HDD status, network signal and alarm info etc.

- ❖ Click “” Switching map types, optional baidu map, Google maps and Mapinfo map;
- ❖ Input address in the address bar, click “” Can search address location on the map;
- ❖ To switch between available in maps and satellite maps;
- ❖ Click “” Map can be enlarged or reduced;



2.1.2.2 Video

- ❖ Video Monitoring: open the real-time video, play the sound .Sound and video are synchronized.
- ❖ Real-time Record: You can save the video into a record file in local disk.



Note: Make sure the device is online and the camera is fixed.



- ❖ Video window mode: 1,4,6,8,9,16,36,64,100;

- ❖ Video window pageup/page down:

- ❖ Video screen display mode: 1-full video window, 2- 16: 9,3- 4: 3.



Full window effectiveness

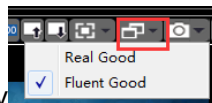
16:9 display effectiveness

4:3 display effectiveness

- ❖ Choice of video effects:

- ✓ Real Good: Priority real-time performance

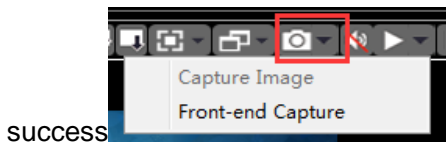
- ✓ Fluent Good: Priority its Fluency



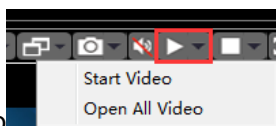
- ❖ Capture image:

- ✓ Capture Image: Capture a picture from IVMS
- ✓ Front-end Capture: Capture a picture from the device and upload to IVMS by server

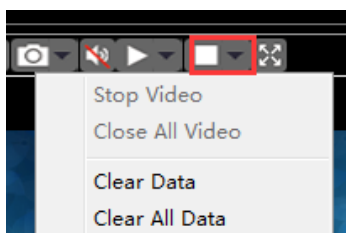
Note: If the SD card or hard drive (memory device) is not installed on the device, it will not capture



- ❖ Sound: Click “” icon Open/Close sound.
- ❖ Open Video
- ❖ Start Video: Open the current focus video window video



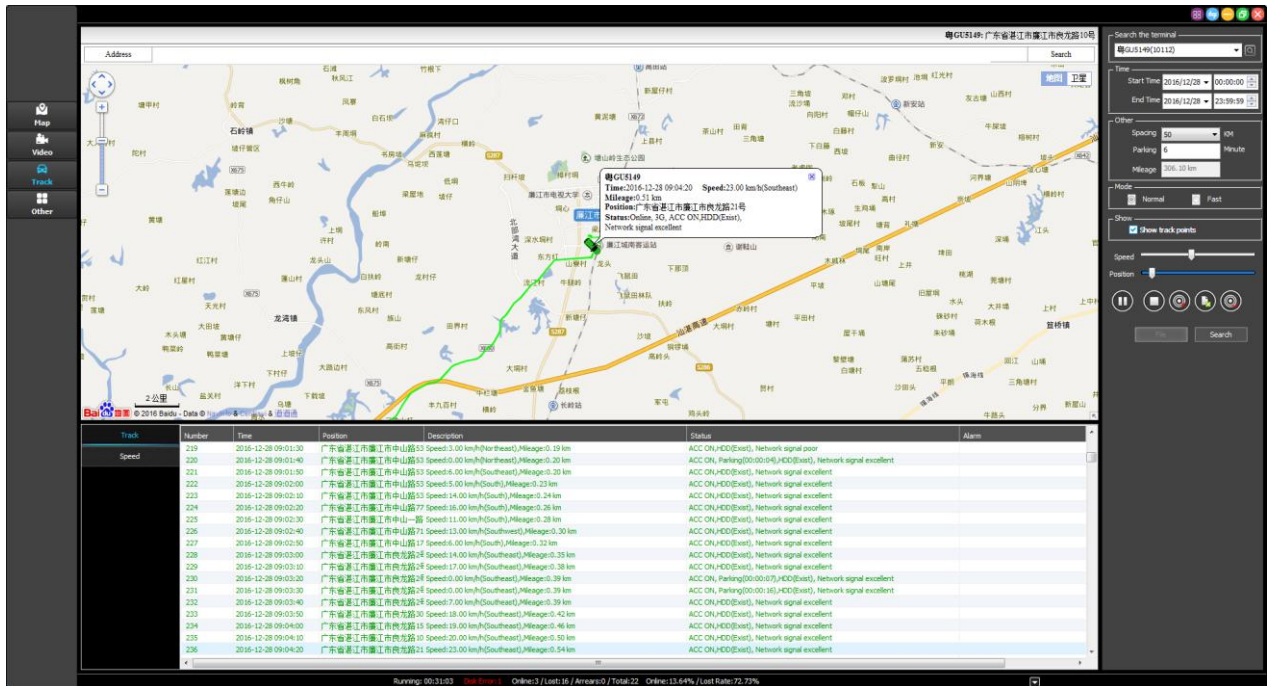
- ❖ Open All Video: open all windows video
- ❖ Stop Video
- ✓ Stop Video: Stop the current focus window video
- ✓ Stop All Video: stop all video
- ✓ Clear Data: Clear current video window’s channel information.
- ✓ Clear All Data: Clear all video window’s channel information.



### 2.1.2.3 Track

Click “Track” Button in the toolbar or click “view”->“Track” in the menu to the Track Playback interface. In this window, you can set the search conditions in the left panel.

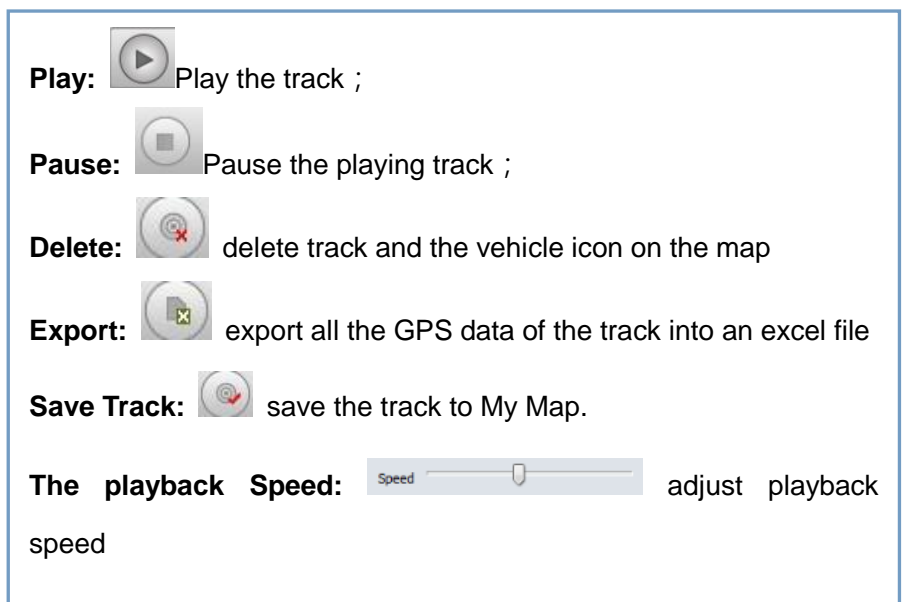
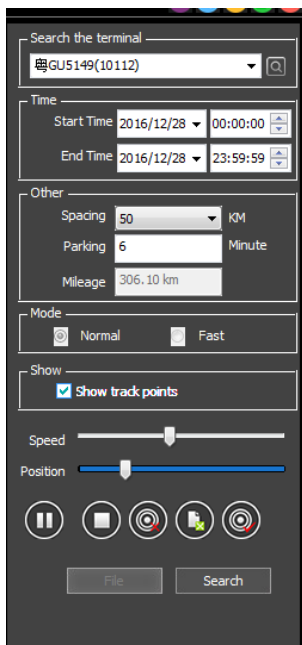




Note: When search the track, the PC client will get the GPS informations from the server, but only one track can be playback for one time.

❖ Conditions setting dialog:

Set the conditions as below shown, then click” search”, It will be played automatically default after search sucessfully. You can click the Stop button to Stop and Click Play button to Play it again.



2.1.2.4 Record Search

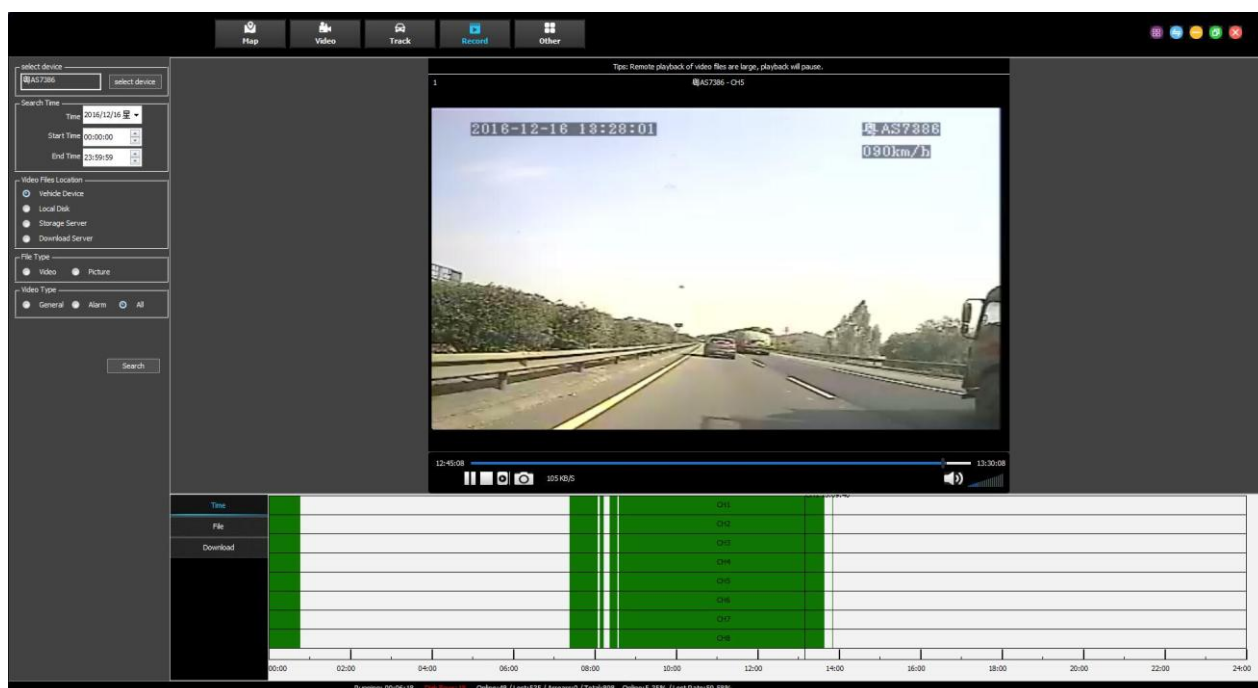
Click on “Record” in the toolbar, change interface to Record Search and Playback Window. In this windows, you must set the conditions for searching, then Click on the “Search” button to search. It will show the list.

❖ **Set search conditions:**

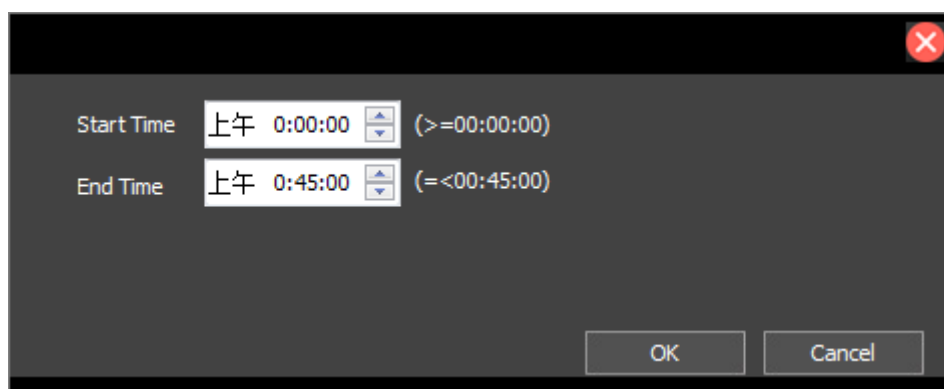
- ✓ Select device: choose the vehicle ID which you need to search video record.
- ✓ Record video Type: Normal, Alarm, All;
- ✓ Search Time: Select a date of the record.
- ✓ Video files location: vehicle device/local disk/storage server/download server
- ✓ File type:video and picture

❖ **Record File Download**

Click “Search” button to search. It will show the result list. You can see the records. As blow, the green record means it is normal record. If have alarm record, the display color is red.



- ✓ Switch to “file” option and select a record ,then Click “Download” on the right-click-menu to download it. and you can set the start time and end time for the record file.



- ✓ Click the “remote replay” or double click the file option, will proceed playback the record.

- ✓ Click the “track” will link to the track search and playback.

Time	Time	Type	Vehicle Device	Channel	Location	Size(MB)	File
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH1	Vehicle Device	630.166MB	/sata_1/2016-12-28/H20161228-000000PBN1P0.avi
File	2016-12-28 00:00:00 - 00:45:00	General	30001	CH2	Vehicle		
Download	2016-12-28 00:00:00 - 00:45:00	General	30001	CH3	Vehicle		1/2016-12-28/H20161228-000000PBN2P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH4	Vehicle		1/2016-12-28/H20161228-000000PBN3P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH5	Vehicle		1/2016-12-28/H20161228-000000PBN4P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH6	Vehicle Device	47.270MB	/sata_1/2016-12-28/H20161228-000000PBN5P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH7	Vehicle Device	47.247MB	/sata_1/2016-12-28/H20161228-000000PBN6P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH8	Vehicle Device	47.267MB	/sata_1/2016-12-28/H20161228-000000PBN7P0.avi
	2016-12-28 00:00:00 - 00:45:00	General	30001	CH9	Vehicle Device	287.195MB	/sata_1/2016-12-28/H20161228-000000PBN8P0.avi
	2016-12-28 00:45:00 - 01:30:00	General	30001	CH1	Vehicle Device	578.067MB	/sata_1/2016-12-28/H20161228-004500PBN1P0.avi
	2016-12-28 00:45:00 - 01:30:00	General	30001	CH2	Vehicle Device	47.219MB	/sata_1/2016-12-28/H20161228-004500PBN2P0.avi
	2016-12-28 00:45:00 - 01:30:00	General	30001	CH3	Vehicle Device	47.220MB	/sata_1/2016-12-28/H20161228-004500PBN3P0.avi
2016-12-28 00:45:00 - 01:30:00	General	30001	CH4	Vehicle Device	575.219MB	/sata_1/2016-12-28/H20161228-004500PBN4P0.avi	
2016-12-28 00:45:00 - 01:30:00	General	30001	CH5	Vehicle Device	47.221MB	/sata_1/2016-12-28/H20161228-004500PBN5P0.avi	

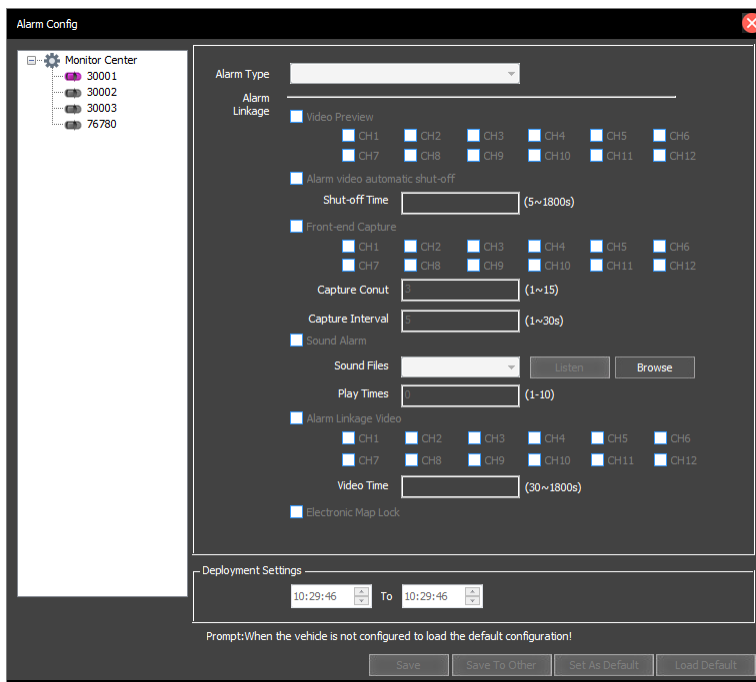
- ✓ Switch to the “download” option, you can see the download status, storage path, download progress, file size, create time, vehicle name, channel name, file source, etc.
- ✓ Right click the download file, you can open folder, stop download, delete file and setting the file storage path.
- ✓ If the file is not completely downloaded, you can click “continue to download” on the right-click-menu to continue to download. And you can play it.
- ✓ When file download finished, you will see the result.

Time	Status	Time	Vehicle Device	Channel	Download Prog	Speed	Size(MB)	Location	File
File	Download	2016-12-28 00:00:00 - 00:45:00	30001	CH2			47.269MB	Vehicle Device	C:\GPS_DOWNLOAD\DOWNLOAD_FILE\30001\2016-12-28\H20161228-000000PBN2P0.avi
Download									

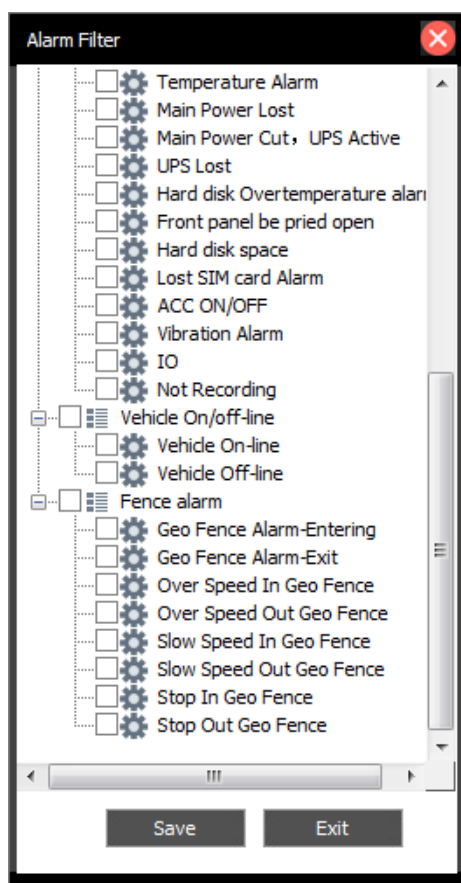
### 2.1.2.5 Other

#### ❖ Alarm config:

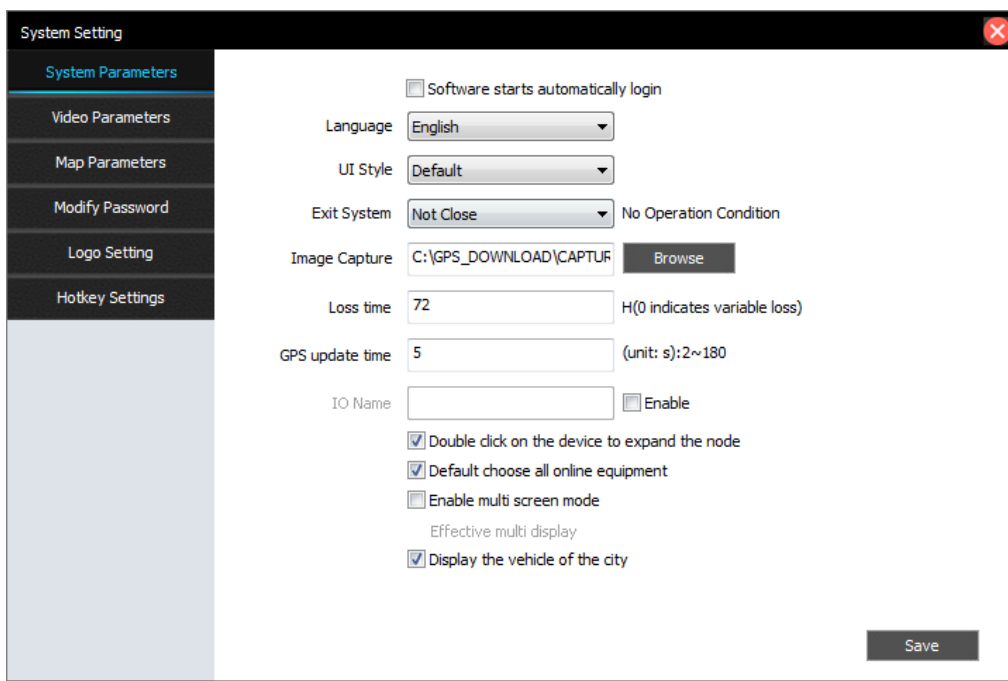
The user can set one or more of the type of alarm, if these type of alarm occur, a linkage dialog will show out or other things will notify the user. Firstly, select a vehicle in the right vehicle list, otherwise, it is uneditable. as shown below:



- ✓ **Alarm Type:** you must select a type.
  - ✓ **Video Preview:** the video of the linkage channel will be played in a pop-up dialog. You can click "Close Setting" to cancel this action.
  - ✓ **Alarm video automatic shut-off:** you can set shut-off time.
  - ✓ **Front-end capture:** the linkage channel will be capture the photo after the alarm trigger. The capture count (1~15) and capture interval can be set from 1~30s
  - ✓ **Sound Alarm:** when the alarm occurs, the sound will be played. the sound voice play time can be set(1~10)
  - ✓ **Alarm linkage video:** the video time can be set (30~1800s)
  - ✓ **Electronic Map Lock:** when the alarm occurs, the vehicle will show in the center of map.
  - ✓ **Auto audio intercom:** the platform will auto trigger audio intercom when the alarm occurs,
  - ✓ **Deployment Settings:** It takes effect in the time range you set.
  - ✓ **Save:** Save current configure into a file.
  - ✓ **Save To Other:** Save current configure to other vehicle.
  - ✓ **Set As Default:** Set current configure as default configure.
  - ✓ **Load Default:** Load default configure as current configure.
- ❖ **Alarm shielding:**  
Ticking options if you need shield the alarm.

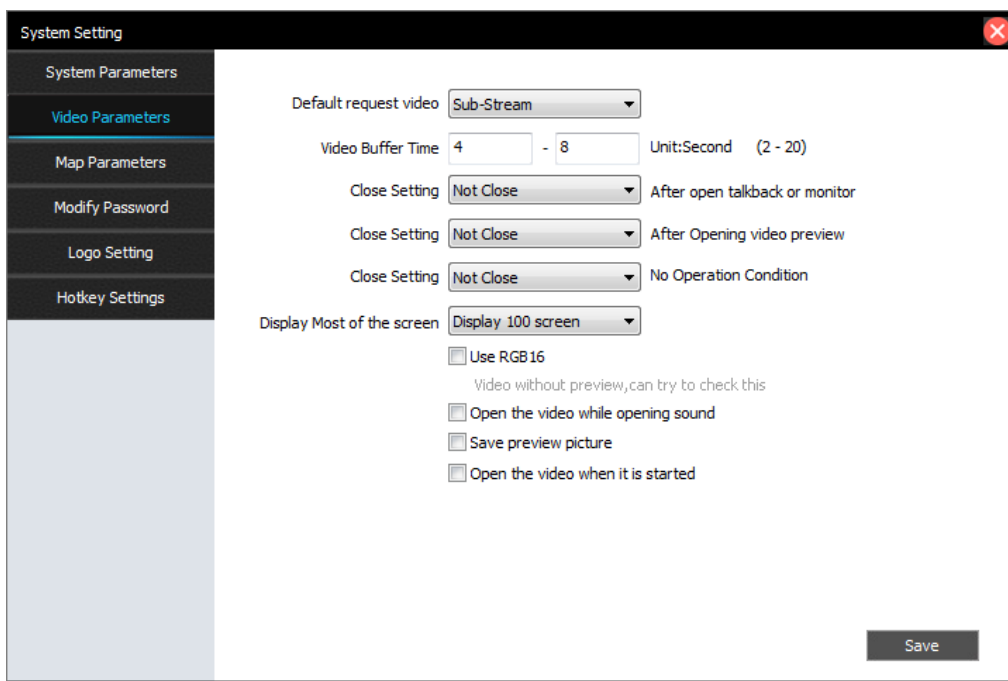


- ❖ **System setting:**  
System setting contain System parameters, video parameters, Map parameters, Modify Password, Logo Setting and Hotkey Settings.



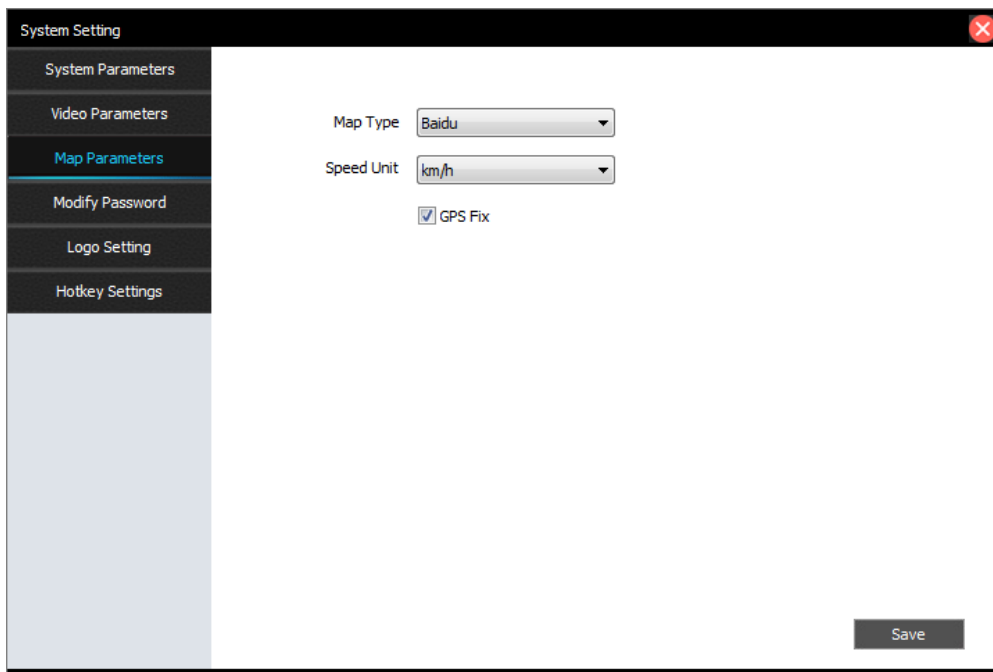
System parameters:

- ✓ **Language:** you can choose Chinese or English, save it and reboot IVMS.
- ✓ **UI style:** you can set the default or blue UI style
- ✓ **Exit system:** when no operation exit system time you can set after 10/15/30/45/60min
- ✓ **Image Capture:** Set the Image storage path.
- ✓ **GPS update time:**2~180s



Vedio parameters:

- ✓ **Default request video:** sub-stream/main-stream
- ✓ **Video Buffer Time:** Set video buffer time to make real-time video play smooth.
- ✓ **Close Settings:** Automatically stop the video after the video is open or the user dose nothing.
- ✓ **Display most of the screen:**16 screen

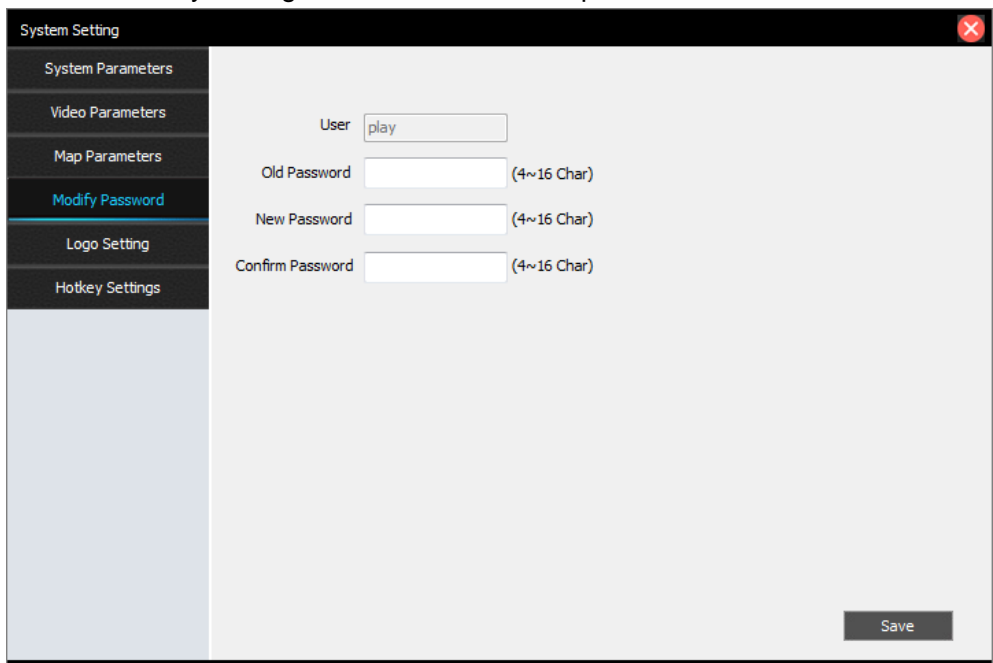


Map parameters:

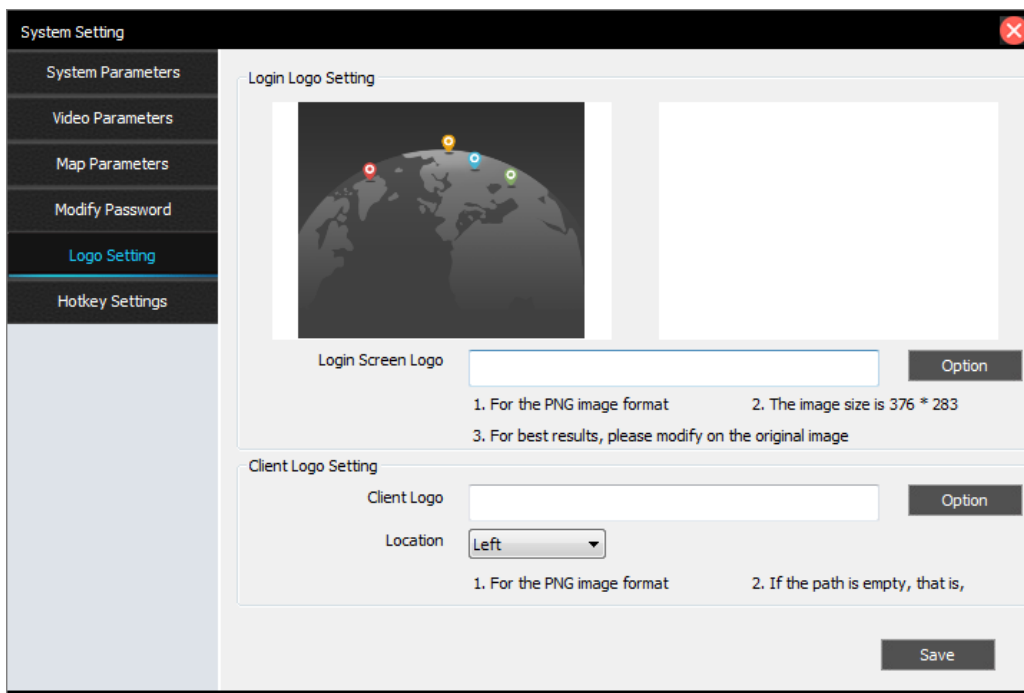
- ✓ **Map type:** baidu/google/mapinfo
- ✓ **Speed Unit:** Km/h or mph

Modify Password:

Can modify the login IVMS client account password

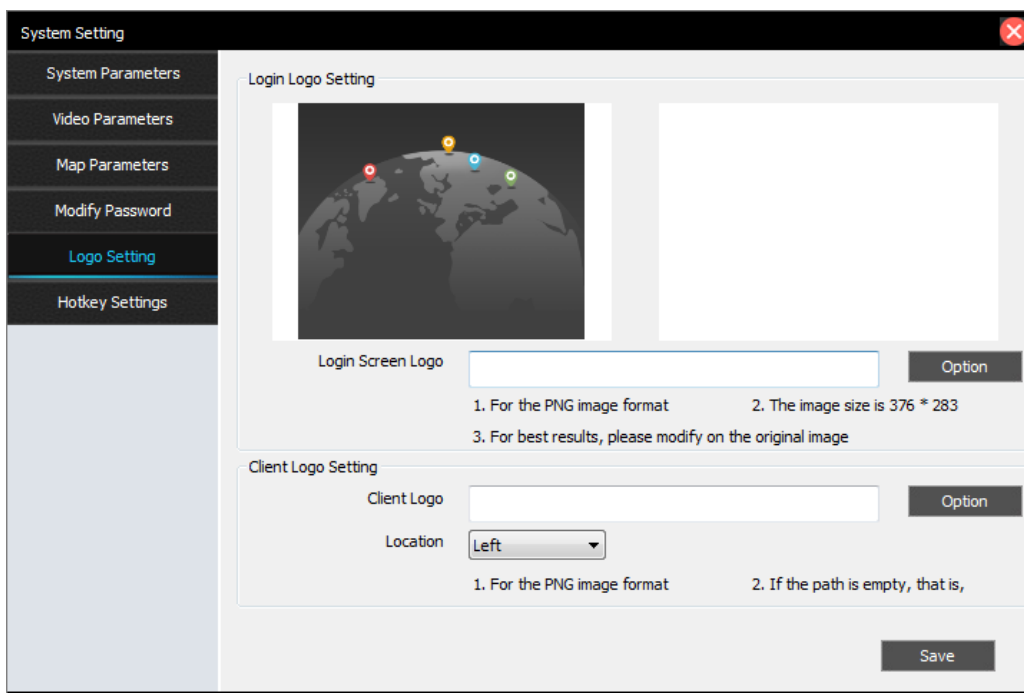


You can change the Login screen Logo and client Logo by yourself. the Login screen Logo must PNG image format, Size is 376\*283;the client Logo location can be set left/right.



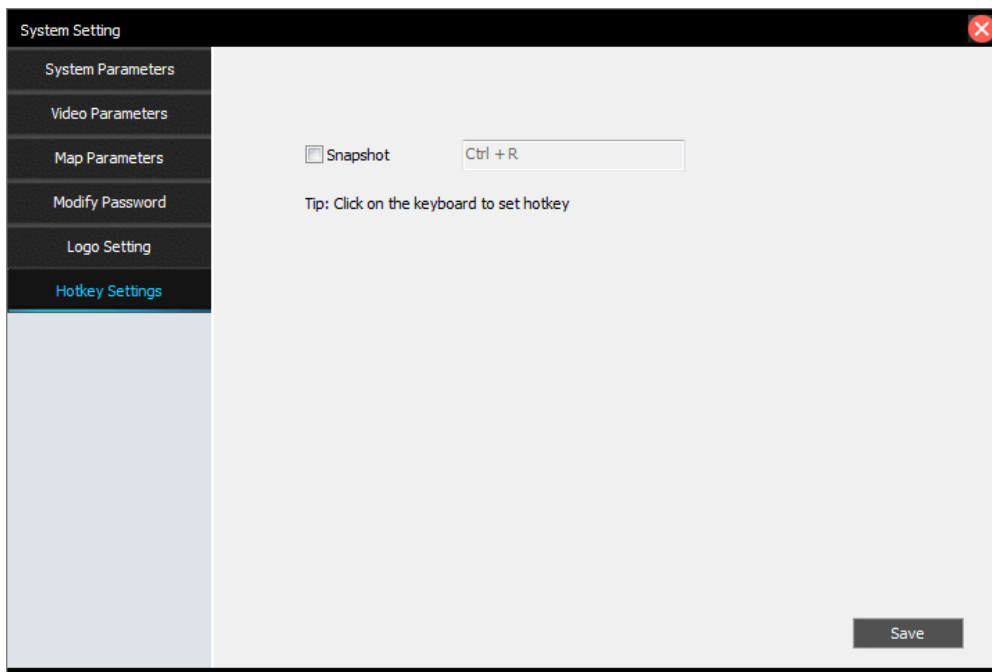
**LOGO setting:**

You can change the Login screen Logo and client Logo by yourself. the Login screen Logo must PNG image format, Size is 376\*283;the client Logo location can be set left/right.



**Hotkey setting:**

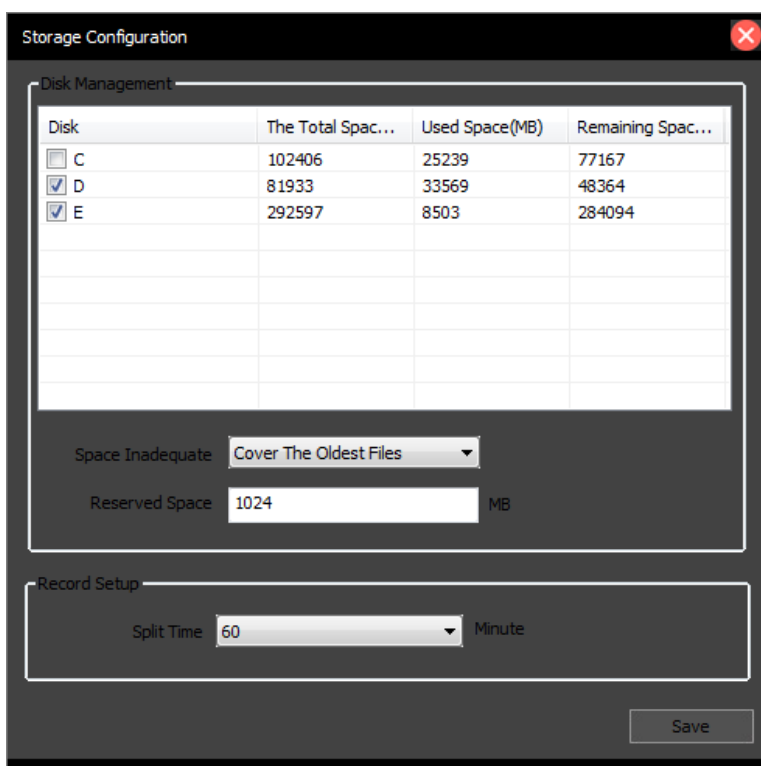
You can click on the keyboard to set hotkey for snapshot.



❖ **Record setting:**

Video storage location on the local disk, can be set by "record settings" in the "Settings" option (The video files will be stored in the folder named gStorage) . as shown below:

- ✓ Disk Management: show all disk total space, remaining space, used space.
- ✓ Reserved Space: minimize is 1024MB.you can set it Stop Record or Cover The Oldest File when the free space is less than Reserved Space.
- ✓ Sectional Time: the record file total time span ( 15/30/45/60 (minutes) )



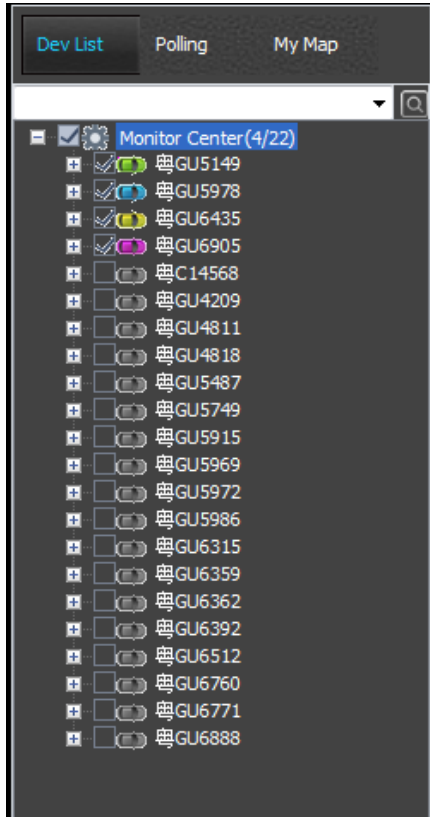


## 2.2 Device Management List

### 2.2.1 Device list

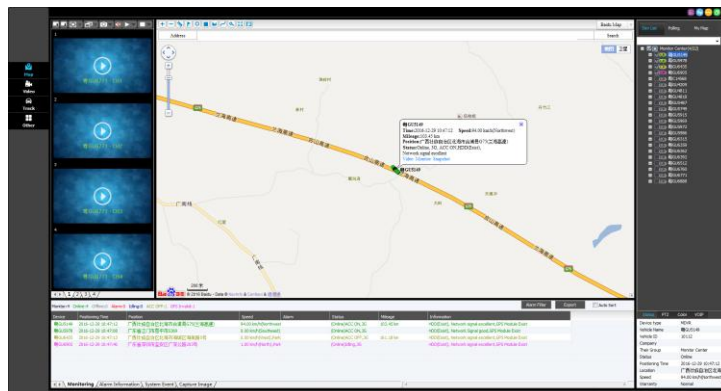
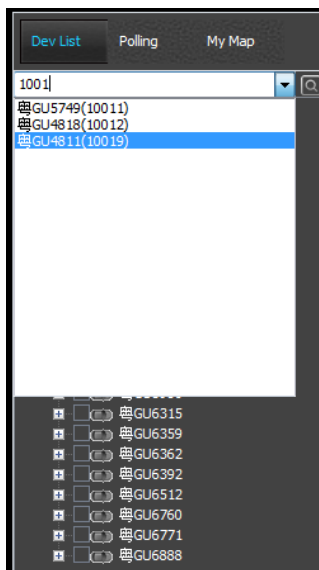
#### ❖ Device online status

Different color of the node means different status. Green means online, Red means alarm and online. Gray means offline. When the user logs in, the system automatically gets the vehicle list and updates the state of each vehicle.



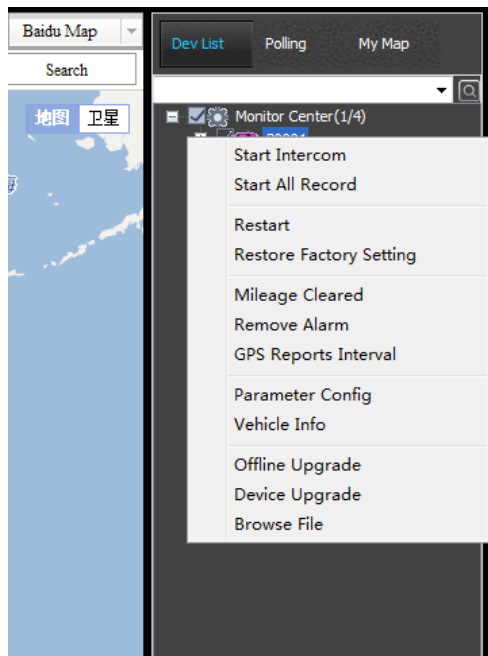
#### ❖ Vehicle Search

Input a key word of vehicle name in the edit box. It will show a list. Select a vehicle in the list and press Enter to confirm it. The color of the node of the selected vehicle will be darker. Click the vehicle ID the vehicle will draw\_centered display as below picture shown.



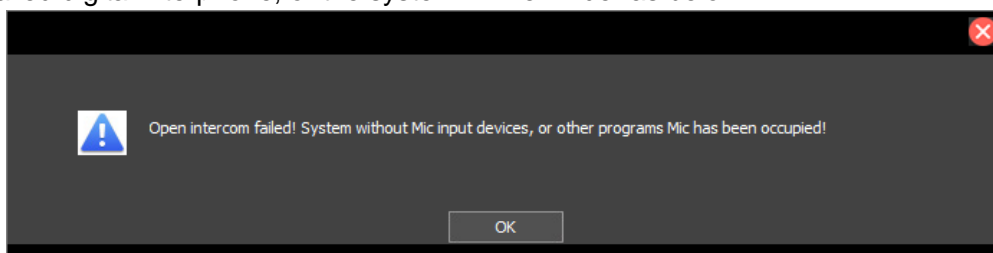
❖ **Right-click for online device ID**

Right-click the online vehicle which is selected in the vehicle list, you can choose "start intercom", "start all record", "restart", "mileage cleared"," Remove Alarm""GPS reports interval","parameter configure","vehicle info","offline Upgrade","Device Upgrade","browse file" on the menu.



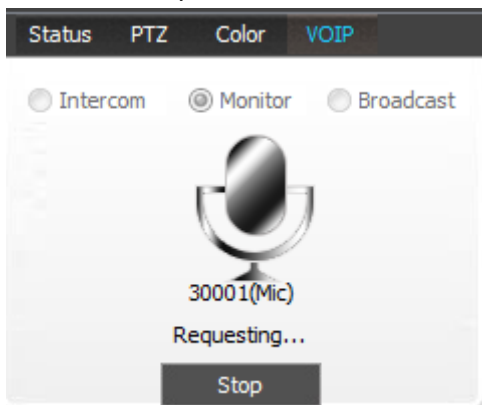
✓ **Start intercom:**

Use to start intercom with the vehicle, you PC need mic input device and the vehicle must be installed digital interphone, or the system will reminder as below.



✓ **Start monitor**

Choose this option will start the VOIP voice monitor.

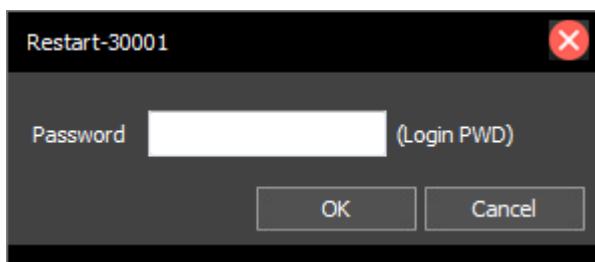


✓ **Start all record:**

Choose this option will start all the record for the vehicle

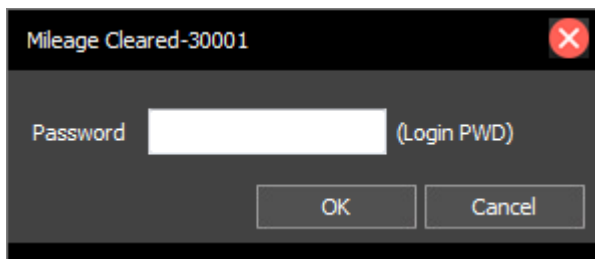
✓ **Restart**

Use to restart the MDVR remotely, you need to input the password before restart.



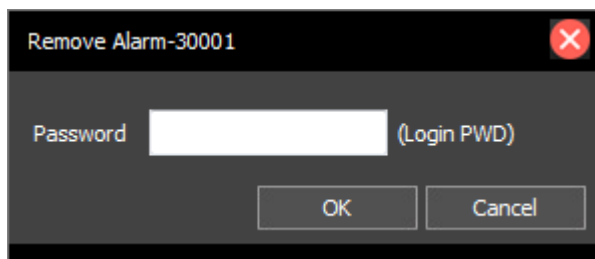
✓ **mileage cleared**

Use to clear the mileage statistics remotely, this action will clear mileage to zero.ou need to input the password before clearing.



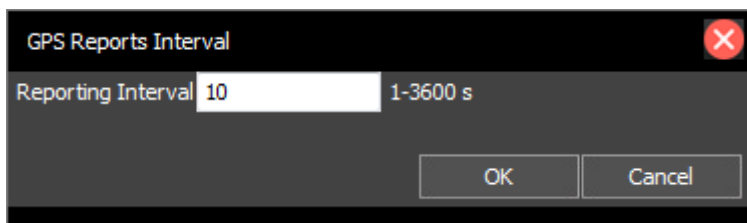
✓ **Remove Alarm**

Use to Remove Alarm the MDVR remotely, you need to input the password before Remove Alarm



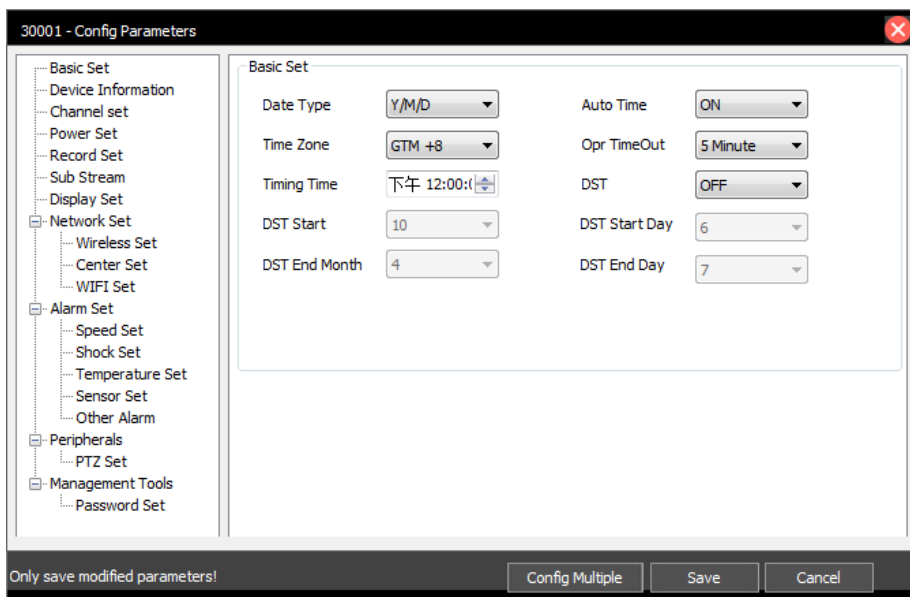
✓ **GPS reports interval**

You can set the GPS reports interval time from 1~3600s, the default time is 10s



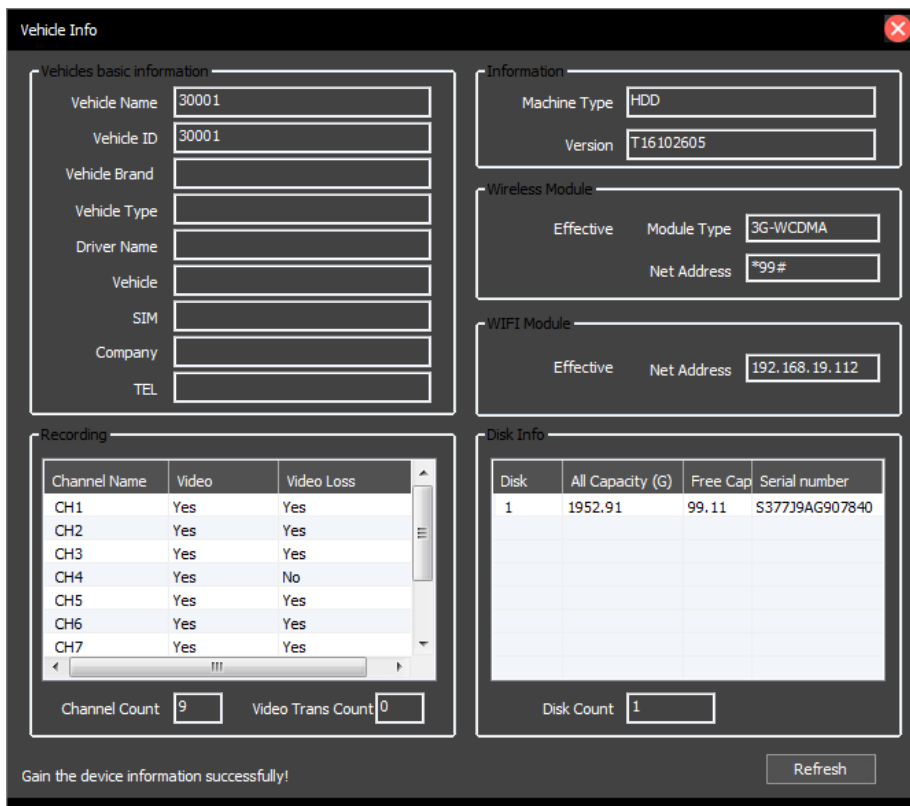
✓ **parameter configure**

The selected vehicle parameters can be seen in the form of pop-up configuration information, you can change the MDVR parameter configure remotely as you need.

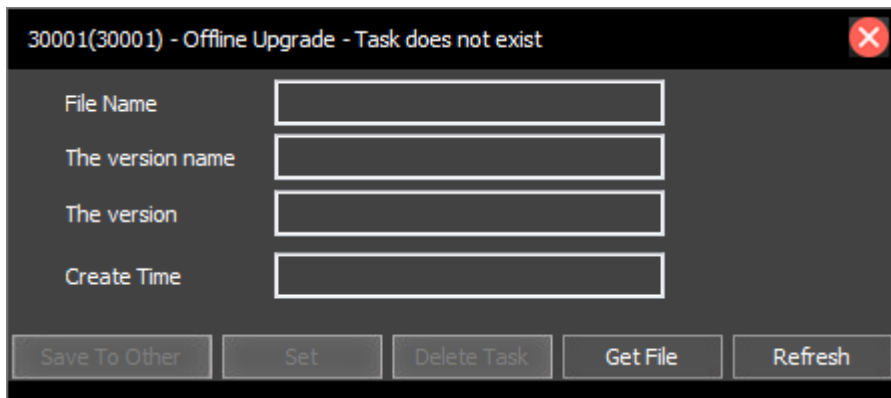


✓ **vehicle info**

You can query the vehicle info as below dialog

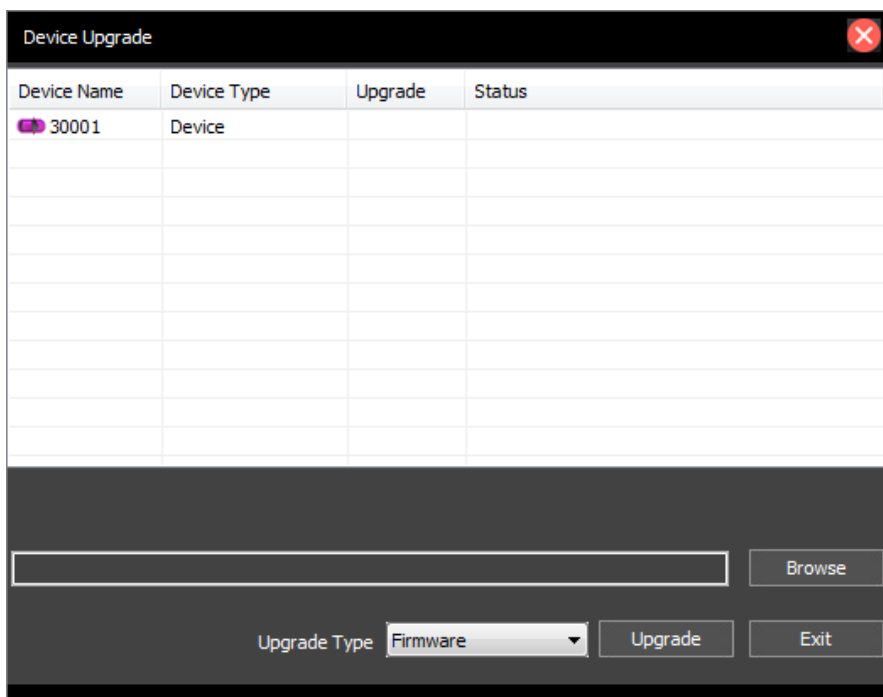


✓ **Offline upgrade:**



✓ **Device upgrade:**

Choose the device upgrade then Click on “Browse”, then select a “. crc file to upgrade .

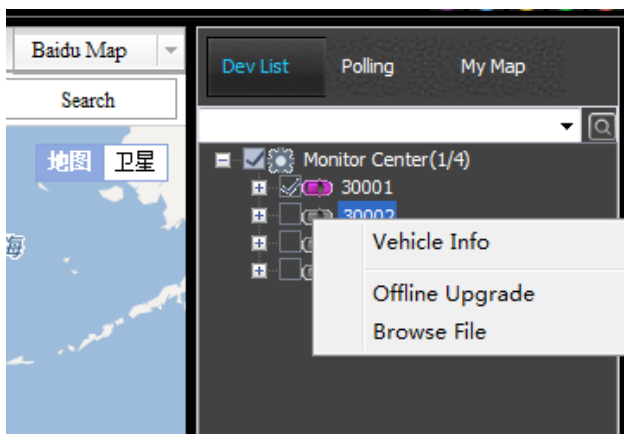


✓ **Browse file**

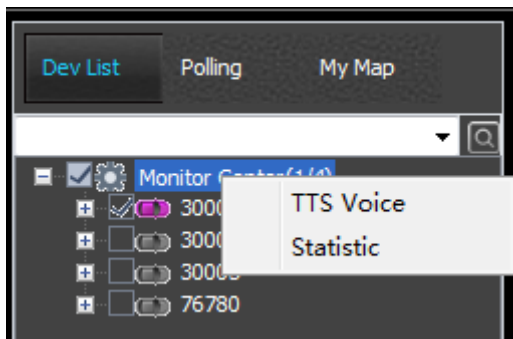
You can find the relevant documents of the vehicle

❖ **Right-click for offline device ID**

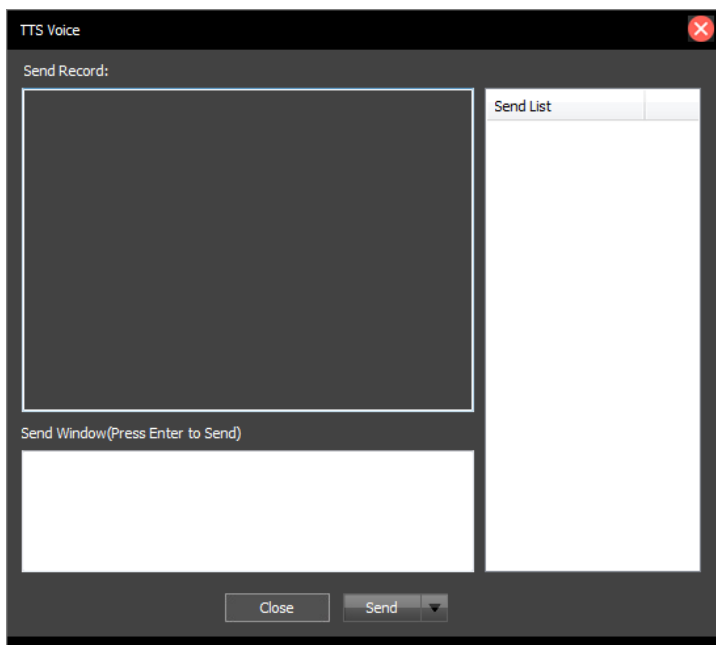
Right-click the online vehicle which is selected in the vehicle list, you can choose “vehicle info”and “offline Upgrade”.”Browse file “for detail setting pls refer to Described above.



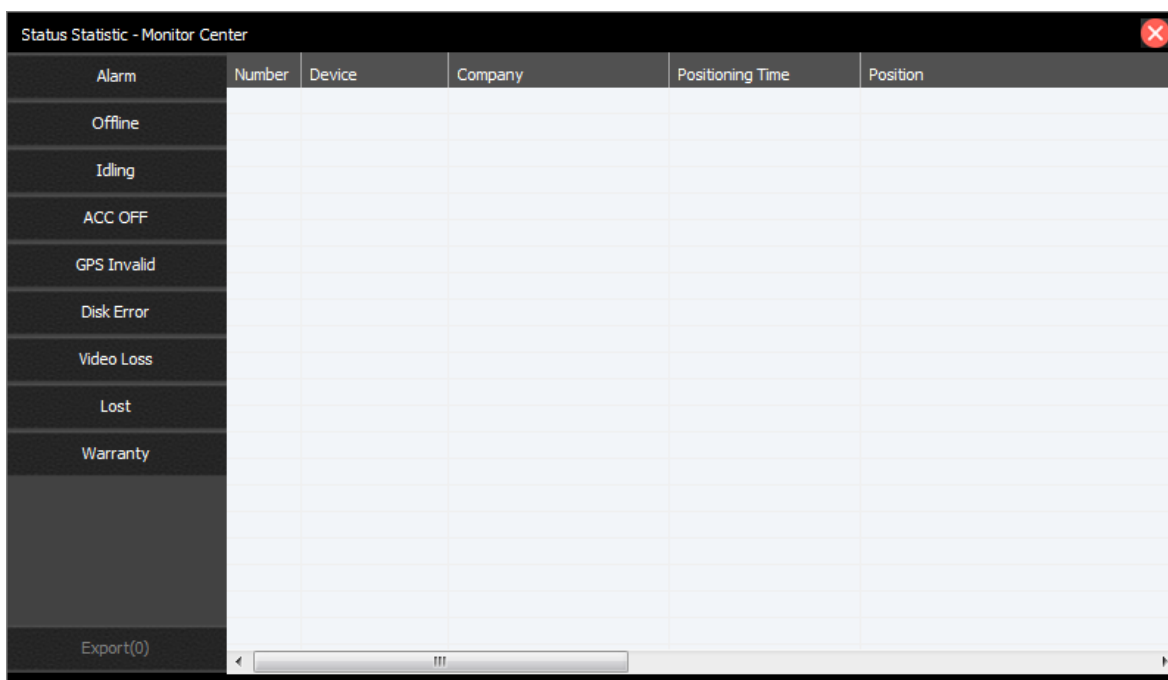
❖ **Right-click for monitor center**



✓ **TTS voice:** you can send the TTS information to the monitor center.



✓ **Statistic:**  
You can statistic the device information;



**Alarm:** display the device which is Alarm

**Offline:** display the device which is offline

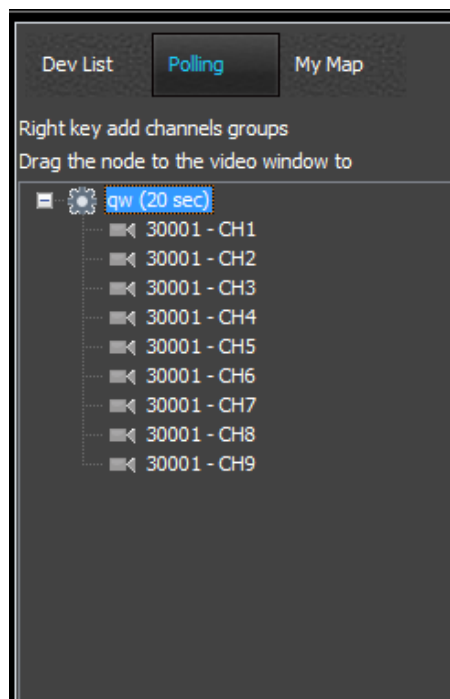
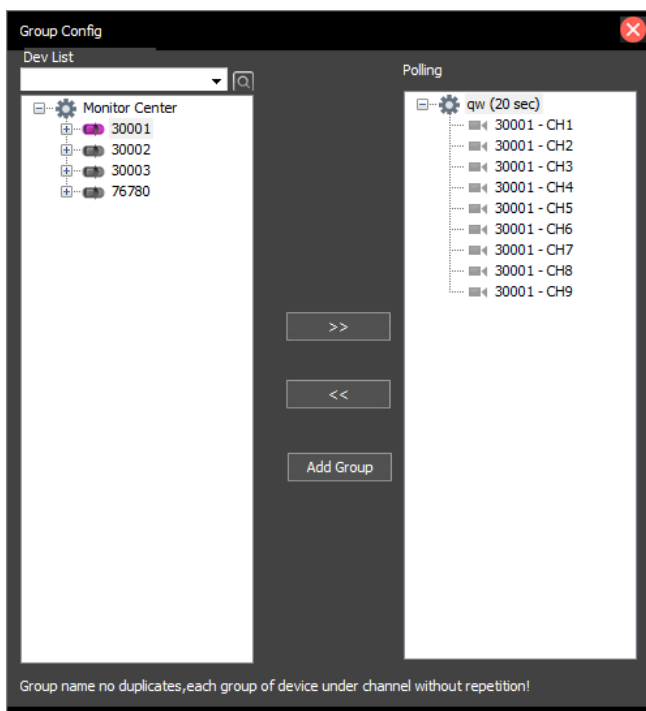
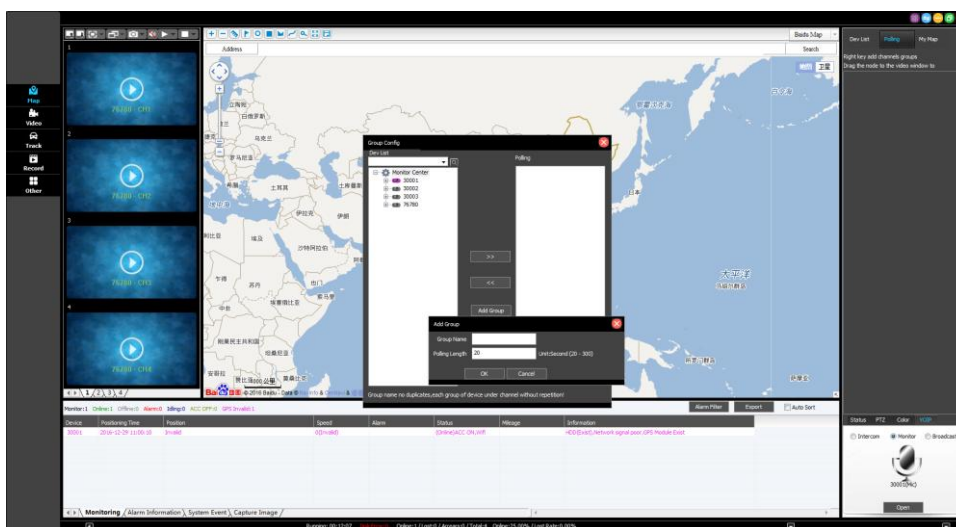
**Lost:** display the device which is offline more than 48h

**Costs:** display the device's Owe the state (need to open cost statistics function)

### 2.2.2 Polling list

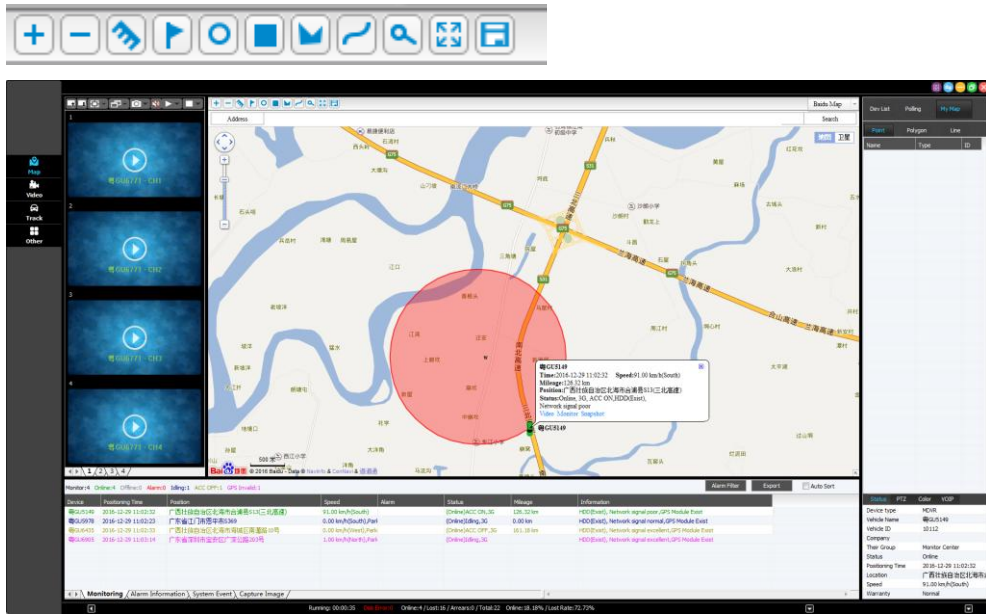
Right click the list area, choose the "group config" you can see the setting dialog. click the "add group" and input the group name, click "OK". The polling group will be created. Then you can add the vehicle to the group.

If the client have set the polling group, right click the list area, you can choose "start polling" to polling view the video.

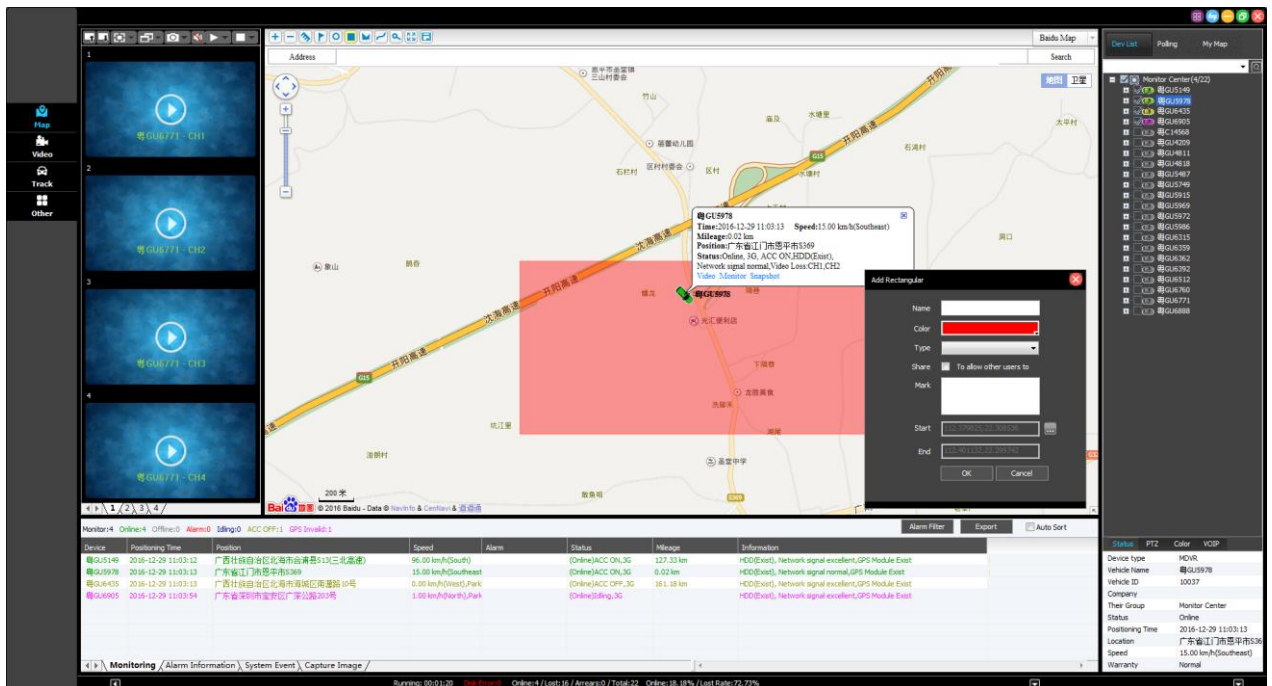


### 2.2.3 My map

Client Left panel select the "My Maps", There are three buttons on the top of the map ,They are "pull box enlarge", "pull box to narrow down", "measuring distance", "point", "circle" "rectangle", "polygon" and "add line" to set electronic fence area.



Select "rectangle", Drag on the map, draw a rectangle, the Regional Settings dialog box pops up; Then input the name of the area, choose the color of the area, and the type and description of the area. "Allow other users to view" If this option is selected, other users can see the rectangular area of the current user settings, or other users do not see this area, Click "OK", My map on the left shows the just regional information added.



## 2.2.4 Video monitor

login on IVMS, you can only see that you have permission to vehicles.

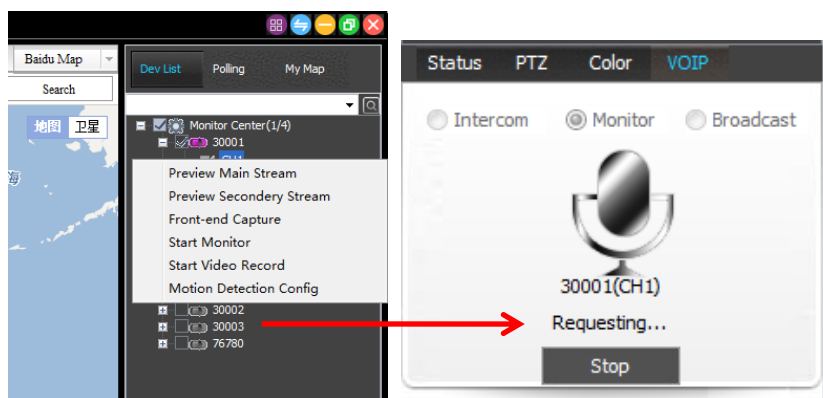
### ❖ Video Preview On Vehicle Channel

To preview a channel of a vehicle, you can drag the channel node to a video window, or double-click on the channel node.

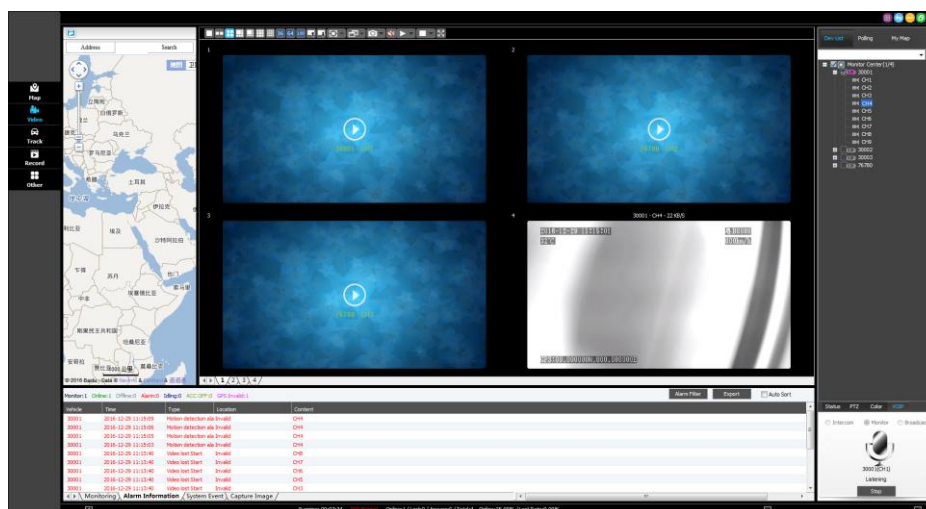
### ❖ Right click on vehicle channel



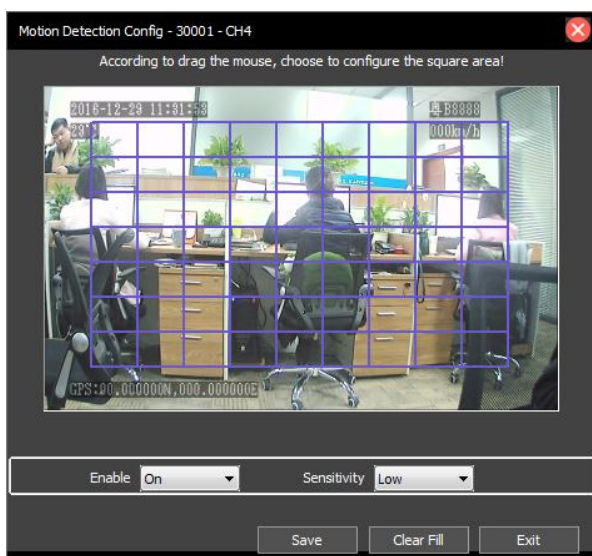
- ✓ Select a vehicle in the vehicle list, right-click , select “Preview main/secondary stream” to open real-time video too. (Note:Preview main stream need more 3G/4G flow and cause network delay. )
- ✓ Front-end capture:choose this option the system will capture the picture.
- ✓ Start intercom:choose the “start intercom” you can proceed interphone with the vehicle(note:this function request install intercom in vehicle)
- ✓ Start monitor:choose the “start monitor” the audio monitor will start,as the below picture shown.



- ✓ Start Video Record:select”Start Video Record” to record the real-time video. And the icon of the channel node will be changed when it start to record.Video storage location on the local disk, can be set by "video settings" in the "Settings" in the menu bar of the main interface (The video files will be stored in the folder named gStorage ) ,pls refer to above description.



- ✓ Motion detection configure:  
You can drag the mouse to choose the motion detection square area, and set “enable”on.when the square area have object moving the PC client will display alarm information.



Note: this function sensitivity can be set low/middle/high, and the MDVR device must be set this function enable. (we suggest to use this function in the stillness of the environment, and JH4&JH8 have this function still now, we will update if other model support)

### 2.3 PTZ and VOIP Control Panel

#### 2.3.1 Status

You can see the vehicle status which you have checked in the device list, the information please refer to the picture shown below.

Status	PTZ	Color	VOIP
Device type		MDVR	
Vehicle Name		30001	
Vehicle ID		30001	
Company			
Their Group		Monitor Center	
Status		Online	
Positioning Time		2016-12-29 11:34:39	
Location		Invalid	
Speed		0(Invalid)	
Warranty		Normal	

#### 2.3.2 PTZ Control

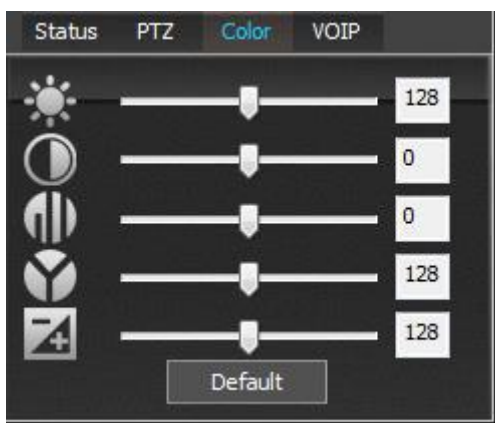
PTZ control Panel is at the bottom of the vehicle list in main interface. When it is playing real-time video (the camera with PTZ), you can select a video window, and click different direction arrows to set different directions, and also can adjust Zoom, Aperture, Focus, Light and Wiper.



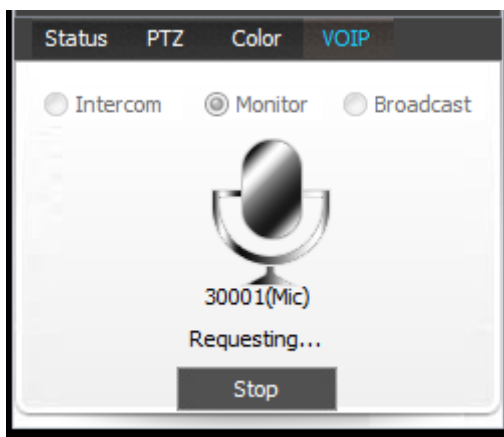
- Zoom: zoom in or out.
- Aperture: Aperture in or out.
- Focus: Focus in or out.
- Light: Light on or off.
- Wiper: Open or Close wiper.
- Preset Point: Call/Set/Delete

### 2.3.3 Client Color Control

Click on the “default” icon, you can set default color.



### 2.3.4 VOIP Panel



- Intercom:**the PC client can issued by the intercom request with the driver.
- Monitor:**monitor the voice in the vehicle,this function need to connect with pick up or the camera with the audio.
- Broadcast:****broadcast to:**broadcast information to all driver

## 2.4.Alarm And Events

### 2.4.1 Monitoring information

You can see the monitor basic information in this option,contain total number of vehicle monitor,online number,offline number,alarm number,idling number,ACC off number etc.

you can also set the alarm shielding as above description in menu---setting---alarm shielding.

The monitor list contain device ID,positioning time,position,speed,alarm,status etc.and you can export the list to local storage.

Device	Positioning Time	Position	Speed	Alarm	Status	Mileage	Information
粤GU5149	2016-12-29 11:41:53	广西壮族自治区北海市海城区北海大道46号	0.00 km/h(West),Park		(Online)ACC ON,3G	162.91 km	HDD(Exist), Network signal excellent,GPS Module Exist
粤GU5978	2016-12-29 11:40:41	广东省阳江市阳东县G15(沈海高速)	95.00 km/h(West)		(Online)ACC ON,3G	12.65 km	HDD(Exist), Network signal excellent,GPS Module Exist
粤GU6435	2016-12-29 11:42:03	广西壮族自治区北海市海城区北海大道	0.00 km/h(East),Park		(Online)ACC ON,3G	9.34 km	HDD(Exist), Network signal poor,GPS Module Exist
粤GU6905	2016-12-29 11:40:11	广东省深圳市宝安区广深公路203号	1.00 km/h(North),Park		(Online)Idling,3G		HDD(Exist), Network signal normal,GPS Module Exist

### 2.4.2 Alarm Information

The “Alarm Info”Tab button will be red if any alarm occurs.the alarm configure set pls refer to menu---setting---alarm configure setting.

- ✓ black: no need to be processed;
- ✓ red: need to process;
- ✓ blue: processed.

Vehicle	Time	Type	Location	Content
粤E13592	2015-12-11 15:55:26	Device communicat	广东省佛山市禅城区X508(佛	
粤GU6783	2015-12-11 15:53:39	ACC OFF alarm	广东省湛江市廉江市S287(廉江	
粤GU5978	2015-12-11 15:49:51	ACC ON alarm	广东省江门市鹤山市G15(沈海	
粤GU5978	2015-12-11 15:40:22	ACC ON alarm	广东省江门市鹤山市G15(沈海	
粤GU6760	2015-12-11 15:39:43	ACC OFF alarm	广东省湛江市廉江市S287(廉江	
粤GU6783	2015-12-11 15:39:39	ACC ON alarm	广东省湛江市廉江市石城大道	

### 2.4.3 System Event

Click on “System Events” tab button and change to System Events Information Panel. System event contain the status of device and server connection, reboot device operation, device power on/off、disconnect/reconnect oil line, Recovery equipment factory settings, GPS report interval changed, etc.

Time	Content
2016-12-29 11:41:58	Successfully login server

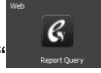
### 2.4.4 Capture Image

Click on “capture image” tab button you can see the capture image record list.

Vehicle	Time	Type	Location	Content
30001	2016-12-29 11:45:23	Not Recording End		Invalid
30001	2016-12-29 11:45:16	Emergency button al		Invalid

### Part 3、Web Client Function Introduce

#### Login web client



Click the “other”option choose “”to enter the web client.

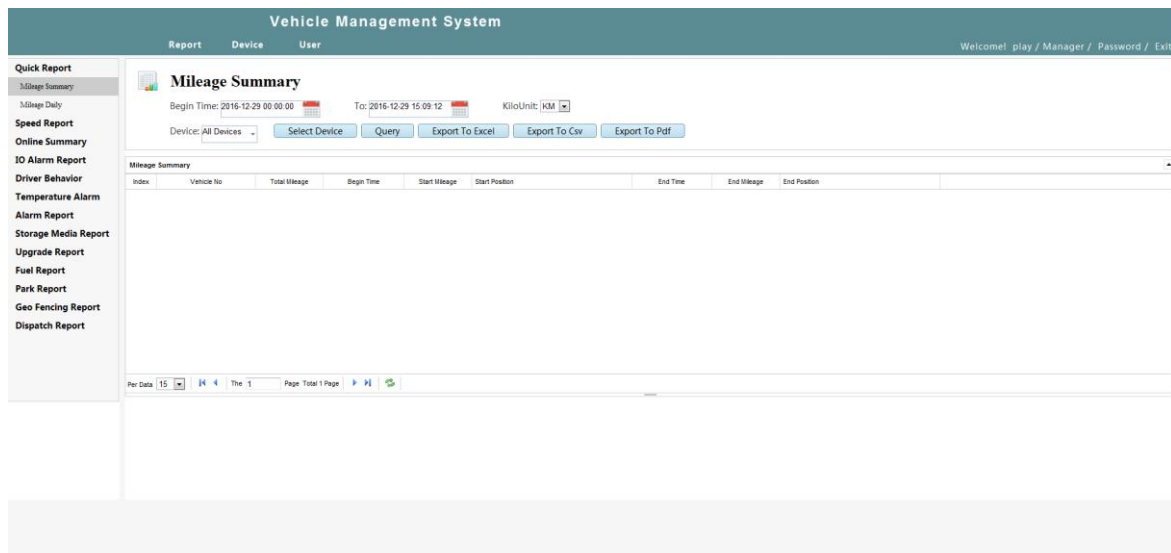
When you the first enter the web client,the system will remind you to change password.



**Report:** Quick report (mileage summary report daily reports), speed report, Online report, IO input alarm report, driver behavior, temperature Alaem, Alarm Report, storage media report, upgrade report, Fuel report, park report, Geo fence Report, Dispatch report.


**Device:** Vehicle Parameter, Device Group, fence alarm, WIFI to download plan, Snapshot Plan, alarm Management, driver, Vehicle maintenance.

**user:** User Management, Authority, Use Log



### 3. 1. Report

- ❖ Time span set query shall not exceed 30 days, Otherwise the system will error

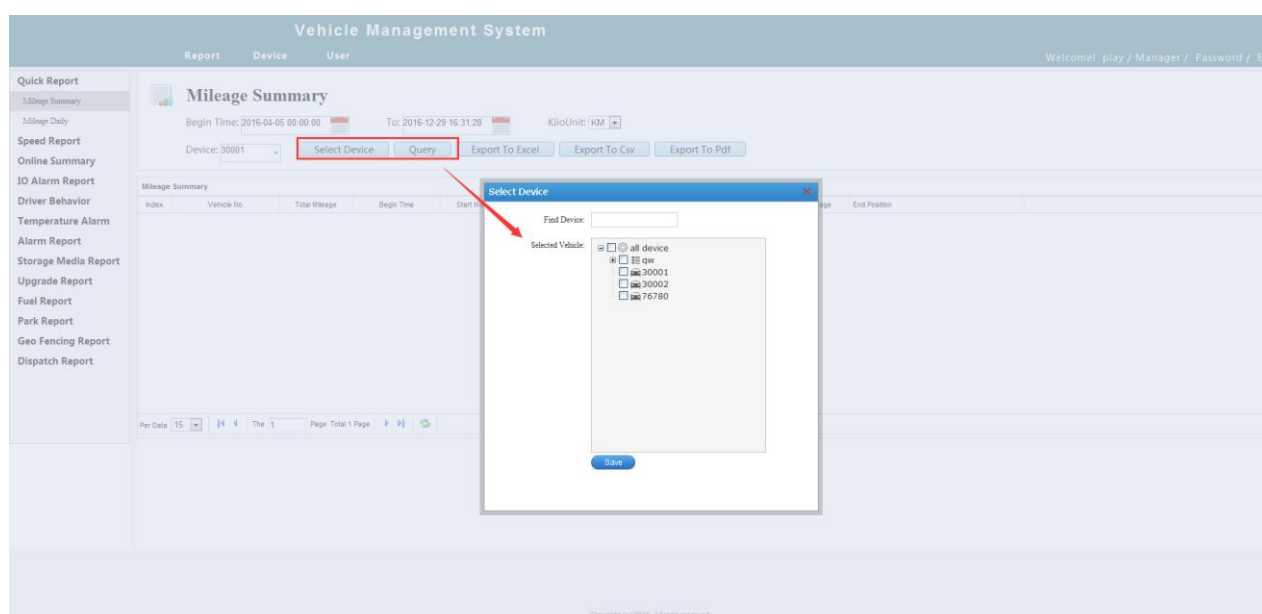
“  The scope of the search time is not more than 30 days! ”

- ❖ Vehicles need to install the corresponding equipment and associated Settings, such as oil report sensor installation of oil, and the alarm parameters setting, alarm can query to the trigger.

#### 3. 1. 1 Quick Report

Quick report contains mileage summary report, daily report

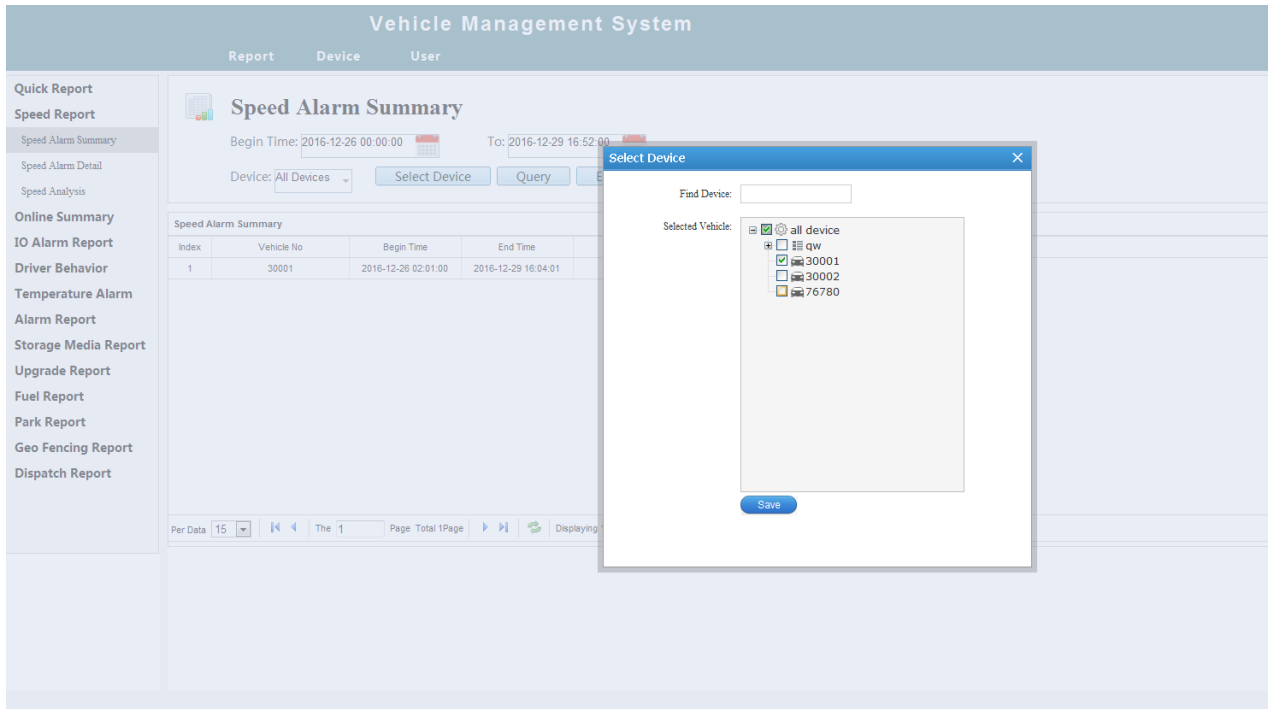
- ❖ Mileage summary report: select search time, click on the select Device, check the vehicle to be query, save the confirmation, click “query” to check the statement;;



Can export to Excel, Csv and PDF format.

#### 3. 1. 2 Speed Report

- ❖ Speed Report contains Speed Alarm Summary, Speed Alarm Detail , Speed Analysis
- ❖ Export to Excel, Csv and PDF format



**Speed Alarm Summary**

Begin Time: 2016-12-26 00:00:00 To: 2016-12-29 16:52:00

Device: All Devices [Select Device] [Query] [Export To Excel] [Export To Csv] [Export To Pdf]

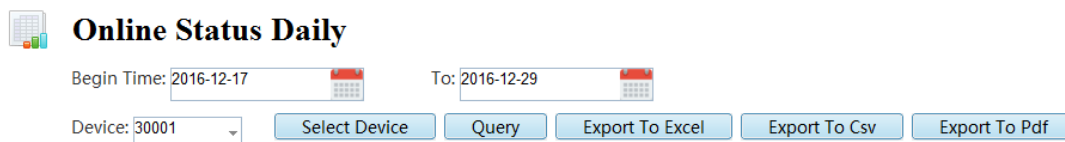
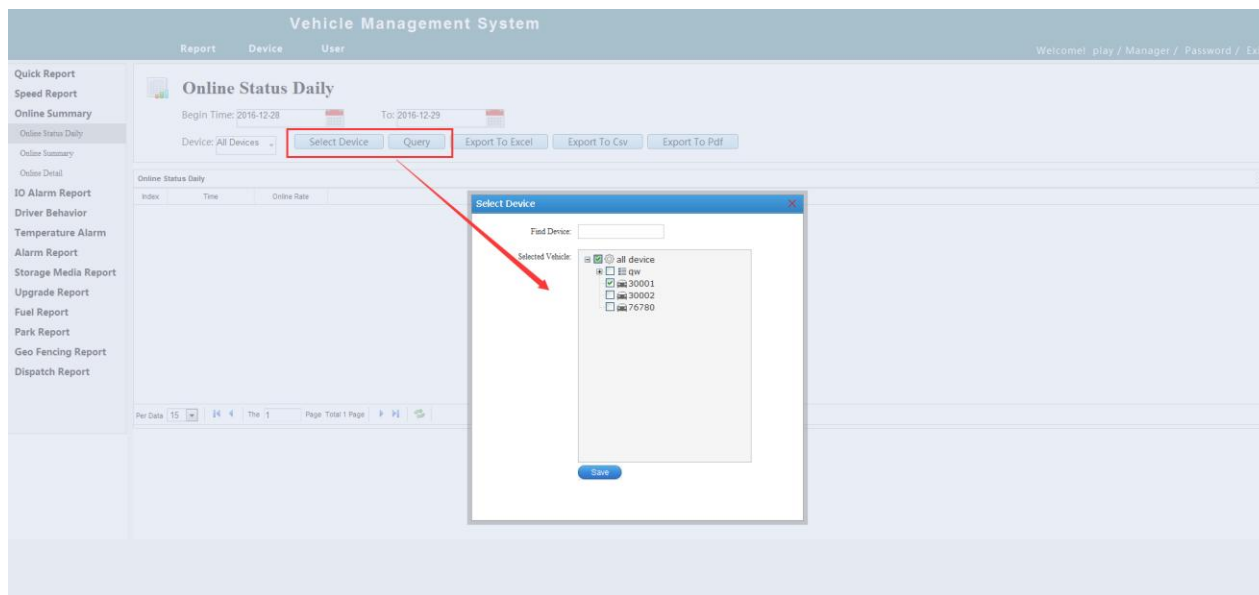
Speed Alarm Summary						
Index	Vehicle No	Begin Time	End Time	Total Count	Overspeed Count	Low-speed Count
1	30001	2016-12-26 02:01:00	2016-12-29 16:04:01	14	0	14

Per Data 15 [Navigation] The 1 Page Total 1Page [Refresh] Displaying 1 to 1 total of 1 items

### 3.1.3 Online Summary

Online Report contains Online Status Daily, Online Summary, Online Detail

- ❖ Online Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format



**Online Status Daily**

Index	Time	Online Rate
1	2016-12-17	0.00%
2	2016-12-18	0.00%
3	2016-12-19	0.00%
4	2016-12-20	0.00%
5	2016-12-21	100.00%
6	2016-12-22	100.00%
7	2016-12-23	100.00%
8	2016-12-24	0.00%
9	2016-12-25	0.00%
10	2016-12-26	100.00%
11	2016-12-27	100.00%
12	2016-12-28	100.00%
13	2016-12-29	100.00%

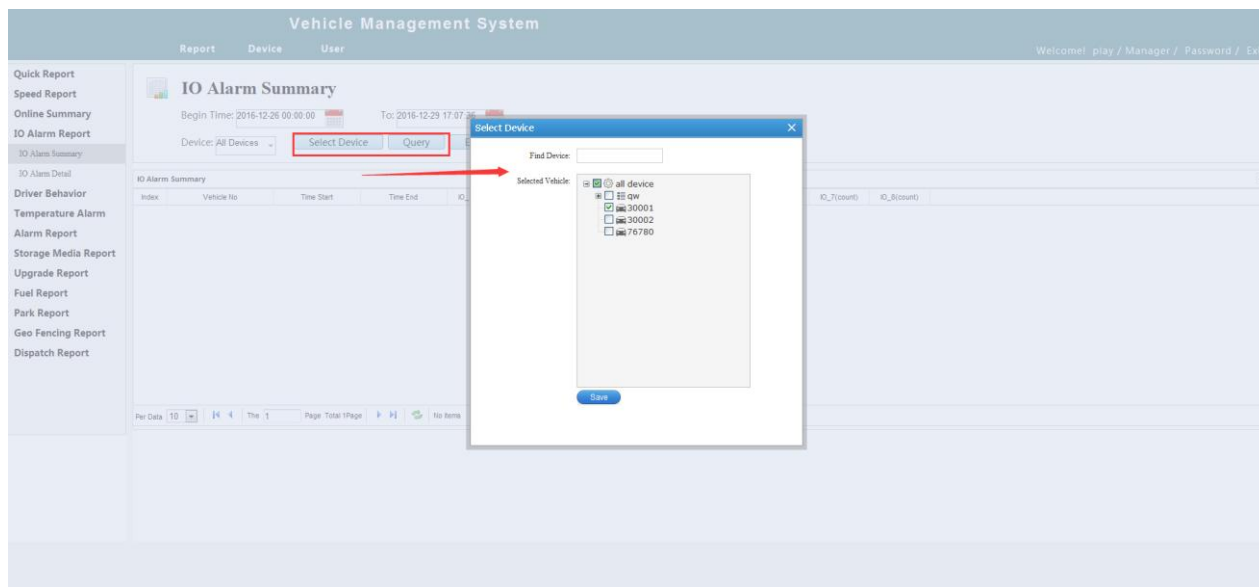
Per Data: 15 | The 1 | Page Total 1Page | Displaying 1 to 13 total of 13 items

### 3.1.4 IO Alarm Report

IO Alarm Report contains IO Alarm Daily, IO Alarm Summary;

- ❖ IO Alarm Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format





**IO Alarm Summary**

Begin Time: 2016-12-16 00:00:00 To: 2016-12-29 17:07:36

Device: All Devices [Select Device](#) [Query](#) [Export To Excel](#) [Export To Csv](#) [Export To Pdf](#)

Index	Vehicle No	Time Start	Time End	IO_1(count)	IO_2(count)	IO_3(count)	IO_4(count)	IO_5(count)	IO_6(count)	IO_7(count)	IO_8(count)
1	30001	2016-12-22 11:38:11	2016-12-22 11:38:11	0	1	0	0	0	0	0	0

Per Data 10 The 1 Page Total 1Page Displaying 1 to 1 total of 1 items

### 3.1.5 Driver Behavior

Driver Behavior contains Driver Attendance Summary, Driver Attendance Detail;

- ❖ Driver Behavior: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report Device User

Welcome! play / Manager / Password / Exit

**Fatigue Summary(per)**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:13:28 Fatigue Alarm Type: All

Device: All Devices [Select Device] [Query]

Find Device: [Input Field]

Selected Vehicle:

- all device
- 30001
- 30002
- 76780

[Save]

Per Data: 15 [Dropdown] [Navigation Icons] Page: Total 1 Page

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### Driver Attendance Detail

Begin Time: 2016-12-26 00:00:00 [Calendar Icon]

To: 2016-12-29 17:17:22 [Calendar Icon]

Device: All Devices [Dropdown]

[Select Device]

[Query]

[Export To Excel]

[Export To Csv]

[Export To Pdf]

#### Driver Attendance Detail

Index	Vehicle No	Swipe Card Time	type	Swipe Card Position	Content
1	30002	2016-12-27 10:51:37	Swipe Card		ICAR研发
2	30002	2016-12-27 10:55:34	Swipe Card		ICAR研发
3	30002	2016-12-27 10:55:33	Swipe Card		ICAR研发
4	30002	2016-12-27 10:51:34	Swipe Card		ICAR研发
5	30002	2016-12-27 10:51:36	Swipe Card		ICAR研发
6	30002	2016-12-27 10:55:36	Swipe Card		ICAR研发
7	30002	2016-12-27 10:55:35	Swipe Card		ICAR研发
8	30002	2016-12-27 10:55:36	Swipe Card		ICAR研发
9	30002	2016-12-27 10:51:35	Swipe Card		ICAR研发

Per Data: 15 [Dropdown] [Navigation Icons] The 1 Page Total 1Page [Navigation Icons] [Refresh Icon] Displaying 1 to 9 total of 9 items

### 3.1.6 Temperature Alarm

**Vehicle Management System**

Report Device User

**Temperature Alarm**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:17:54

Device: All Devices [Select Device] [Query] [Export To Excel] [Export To Csv] [Export To Pdf]

Index	Vehicle No	Time	Equipment Temperature	Temperature One	Temperature Two	Position
1	30001	2016-12-29 12:19:42	36.0°C	0.0°C	0.0°C	
2	30001	2016-12-29 12:19:56	36.0°C	0.0°C	0.0°C	
3	30001	2016-12-29 12:20:01	36.0°C	0.0°C	0.0°C	
4	30001	2016-12-29 12:20:09	36.0°C	0.0°C	0.0°C	
5	30001	2016-12-29 12:20:13	36.0°C	0.0°C	0.0°C	
6	30001	2016-12-29 12:20:21	36.0°C	0.0°C	0.0°C	
7	30001	2016-12-29 12:20:27	36.0°C	0.0°C	0.0°C	

Per Data 15 The 1 Page Total 1 Page Displaying 1 to 7 total of 7 items

### 3.1.7 Alarm Report

Alarm reports provide vehicles all alarm information statements, including alarm summary, ACC Detail, GPS signal loss alarm, emergency button Detail, illegal Open door alarm, Motion Alarm Detail, video loss Detail, Not Recording, G - sensor alarm Detail, alarm, etc.

- ❖ Alarm reports: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report Device User

**Alarm Summary**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:19:54

Device: All Devices [Select Device] [Query]

**Select Device**

Find Device:

Selected Vehicle:

- all device
- qw
- 30001
- 30002
- 76780

[Save]

**Alarm Summary**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:19:04

Device: All Devices [Select Device] [Query] [Export To Excel] [Export To Csv] [Export To Pdf]

Index	Vehicle No	Time Start	Time End	ACC ON(count)	GPS Signal Lost(count)	Emergency Button(count)	Illegal Open Door(count)	Motion Detection(count)	Video Lost(count)	G-Sensor(count)
1	30001	2016-12-21 16:02:16	2016-12-29 16:04:09	26	16	4	0	8132	161	0
2	30002	2016-12-27 10:43:27	2016-12-28 08:53:44	3	3	2	0	0	2	0
3	30003	2016-12-27 14:20:33	2016-12-27 14:27:51	2	1	0	0	0	6	0
4	76780	2016-12-27 15:03:40	2016-12-27 15:03:40	0	1	0	0	0	0	0

Per Data 15 The 1 Page Total 1Page Displaying 1 to 4 total of 4 items

### 3.1.8 Storage Media Report

Storage Media Report contains Disk Error Detail, Disk Temperature Alarm, Disk Status Detail;

- ❖ Storage Media Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report: Device User

Welcome! play / Manager / Password / Exit

**Disk Error Detail**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:25:52

Device: All Devices [Select Device] [Query]

Disk Error Detail

Index	Vehicle No	Time	Type	Position
-------	------------	------	------	----------

Per Data 15 The 1 Page Total 1Page

**Select Device**

Find Device:

Selected Vehicle:

- all device
- qw
- 30001
- 30002
- 76780

[Save]

**Disk Status Detail**

Begin Time: 2016-12-29 To: 2016-12-29 Status: All

Device: All Devices [Select Device] [Query] [Export To Excel] [Export To Csv] [Export To Pdf]

Index	Vehicle No	Time	Hard Disk Information
1	30001	2016-12-29	Hard Disk1 Serial Number:,Total(G):0.00,Remaining:0.00; Hard Disk2 Total(G):0.00,Remaining:0.00;

Per Data 15 Page Total 1 Page Displaying 1 to 1 total of 1 items

### 3.1.9 Upgrade Report

Upgrade Report contains Vehicle Release Detail, OFFline Upgrade, Parameter Configuration;

- ❖ Upgrade Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report Device User Welcome! play / Manager / Password / Exit

**Vehicle Release Details**

Begin Time: 2016-12-29 To: 2016-12-29 Version Number: [ ]

Device: All Devices [Select Device] [Query] [Export To Excel] [Export To Csv] [Export To Pdf]

Index	Vehicle No	Time	Version Number
1	30001	2016-12-29	T16102605

Per Data 15 Page Total 1 Page Displaying 1 to 1 total of 1 items

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### 3.1.10 Fuel Report

Fuel Report contains Fuel Dynamic Detail, Fuel Abnormal Detail;

- ❖ Fuel Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"

- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report Device User

**Fuel Dynamic Detail**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:32:27 Distance: 500M KiloUnit: KM

Device: 30001 Select Device Query Export To Excel Export To Csv Export To Pdf Graph

Index	Vehicle No	Time	Fuel(Liter)	Mileage	Position
1	30001	2016-12-29 03:03:15	0	0 km	
2	30001	2016-12-29 03:03:18	0	0 km	
3	30001	2016-12-29 03:03:25	0	0 km	
4	30001	2016-12-29 03:03:26	0	0 km	
5	30001	2016-12-29 03:03:26	0	0 km	
6	30001	2016-12-29 03:03:26	0	0 km	
7	30001	2016-12-29 03:03:35	0	0 km	
8	30001	2016-12-29 03:03:38	0	0 km	
9	30001	2016-12-29 03:03:45	0	0 km	
10	30001	2016-12-29 03:03:55	0	0 km	
11	30001	2016-12-29 03:04:05	0	0 km	
12	30001	2016-12-29 03:04:15	0	0 km	

Per Data 15 The 1 Page Total 15Page Displaying 1 to 15 total of 223 items

### 3.1.11 Park Report

Park Report contains Vehicle Idling Summary, Vehicle Idling Detail, Park Too Long Summary, Park Too Long Detail;

- ❖ Park Report: select the search time, click the select Device, check to query the vehicles and save the confirmation, click the "query"
- ❖ Export to Excel, Csv and PDF format

**Vehicle Management System**

Report Device User

**Parking Summary**

Begin Time: 2016-12-29 00:00:00 To: 2016-12-29 17:34:04

Device: All Devices Select Device Query Export To Excel Export To Csv Export To Pdf

Index	Vehicle No	Park Count	Park TotalTime
No items			

Per Data 15 The 1 Page Total 1Page No items

### 3.1.12 Geo Fencing Report

**Vehicle Management System**

Report    Device    User

Quick Report

Speed Report

Online Summary

IO Alarm Report

Driver Behavior

Temperature Alarm

Alarm Report

Storage Media Report

Upgrade Report

Fuel Report

Park Report

Geo Fencing Report

Geo Fencing Alarm Detail

Dispatch Report

### Geo Fencing Alarm Detail

Begin Time: 2016-12-29 00:00:00    To: 2016-12-29 17:35:36    Type: All    Region: All

Device: All Devices    [Select Device](#)    [Query](#)    [Export To Excel](#)    [Export To Csv](#)    [Export To Pdf](#)

Geo Fencing Alarm Detail					
Index	Vehicle No	Time	Region	Type	Position
No items					

Per Data: 15    Page: 1 of 1    Total: 1 Page

### 3. 1. 13 Dispatch Report

**Vehicle Management System**

Report    Device    User

Quick Report

Speed Report

Online Summary

IO Alarm Report

Driver Behavior

Temperature Alarm

Alarm Report

Storage Media Report

Upgrade Report

Fuel Report

Park Report

Geo Fencing Report

Dispatch Report

TTS Detail

### TTS Detail

Begin Time: 2016-12-29 00:00:00    To: 2016-12-29 17:36:56

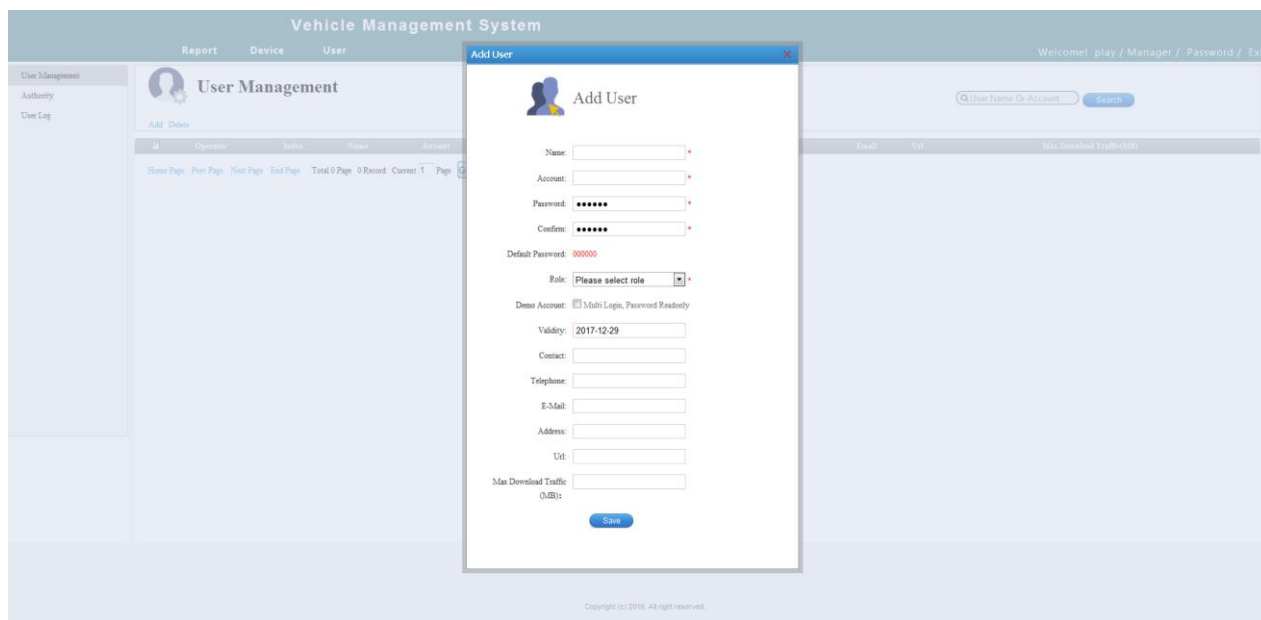
Device: All Devices    [Select Device](#)    [Query](#)    [Export To Excel](#)    [Export To Csv](#)    [Export To Pdf](#)

TTS Detail				
Index	User	Vehicle No	Time	Instruction
No items				

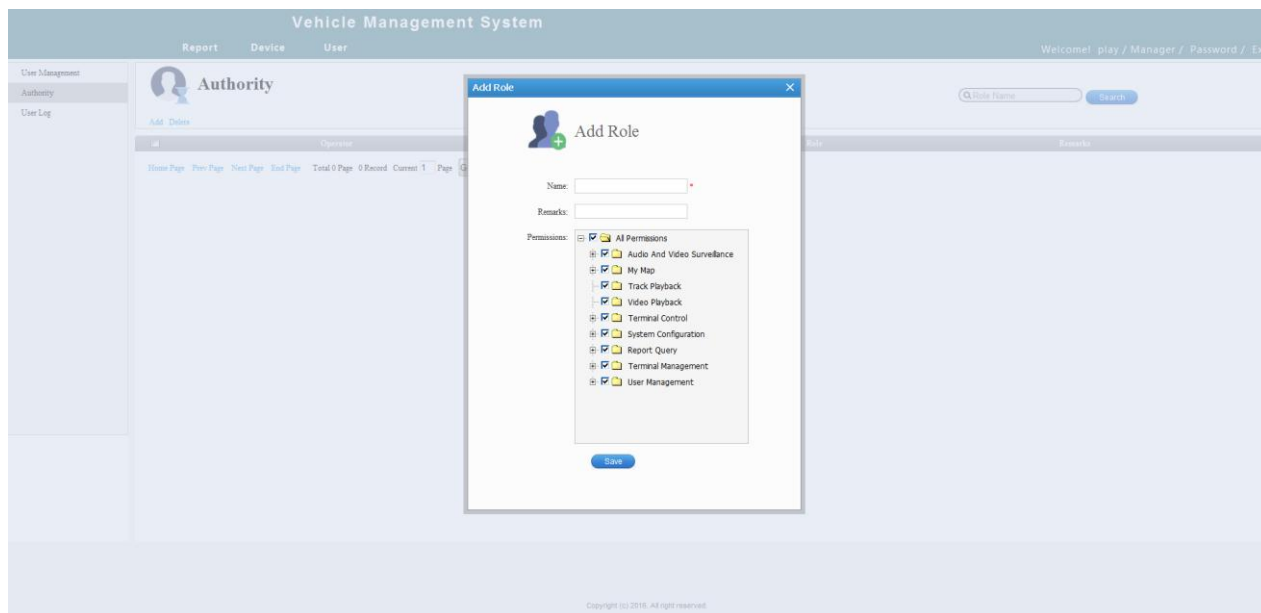
Per Data: 15    Page: 1 of 1    Total: 1 Page

## 3.2. Enter “User Manage” Page

### 3.2.1 Add Users and Assign Permissions



### 3.2.2 Add roles and Assign permissions

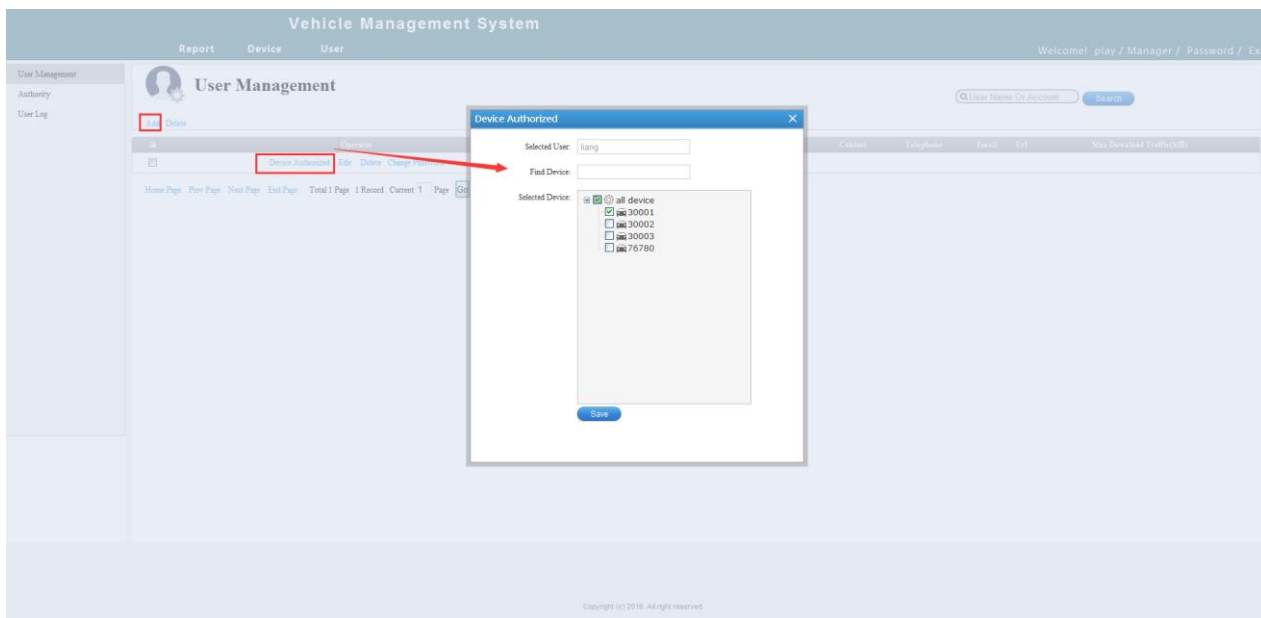


NOTE: Uncheck User Management role if the user is not the System Administrator.

### 3.2.3 Authorizing Users to vehicles/Devices

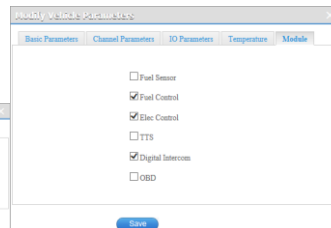
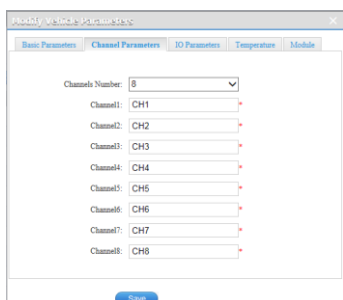
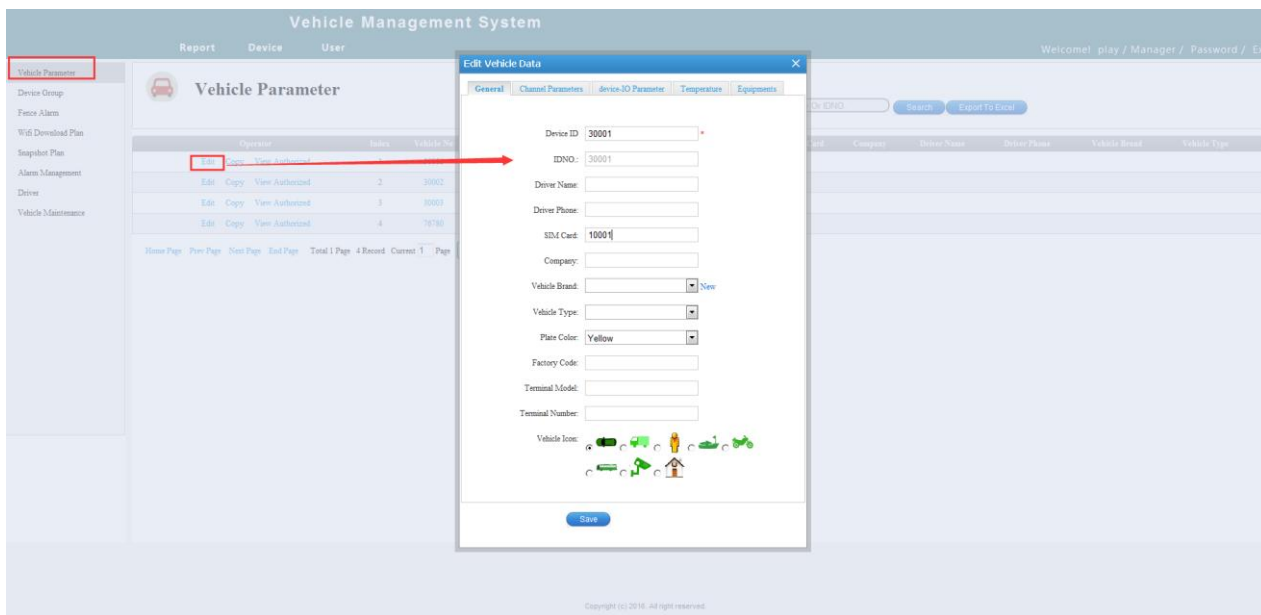
Vehicles/Devices need to be authorized with a user association that defines what vehicle/device information the user can see.





### 3.3. Enter “Device Manage” Page

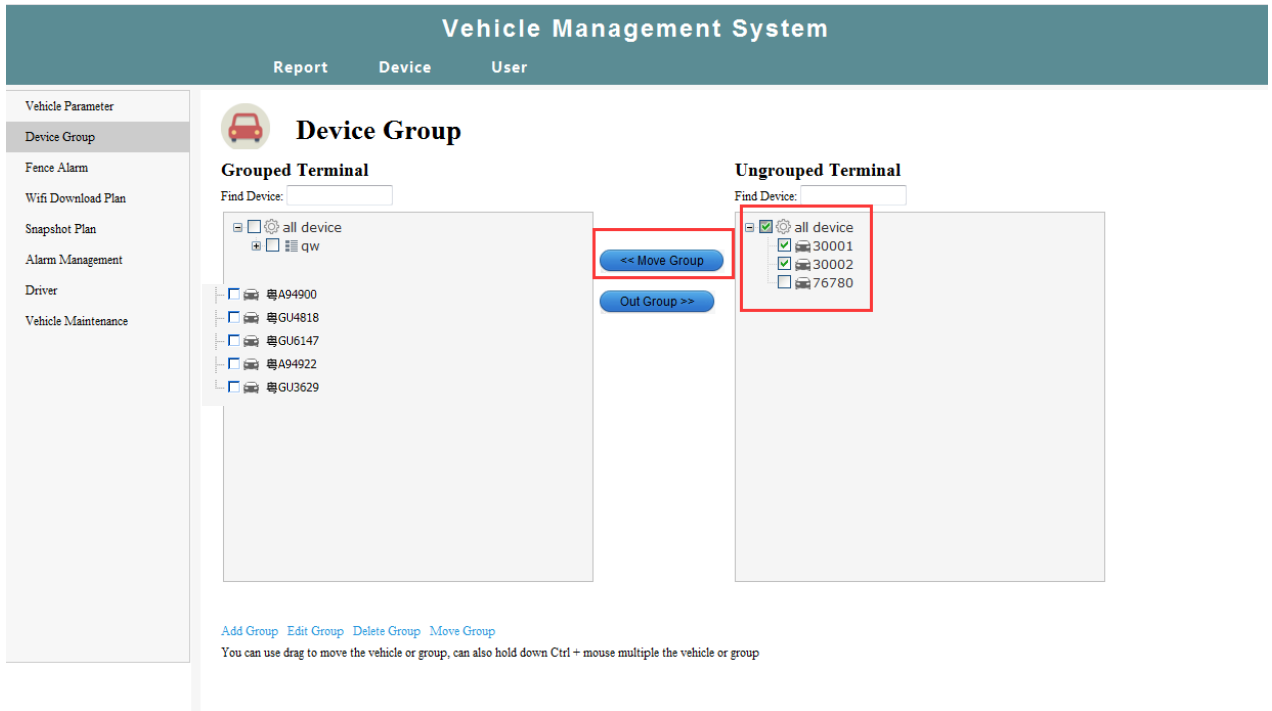
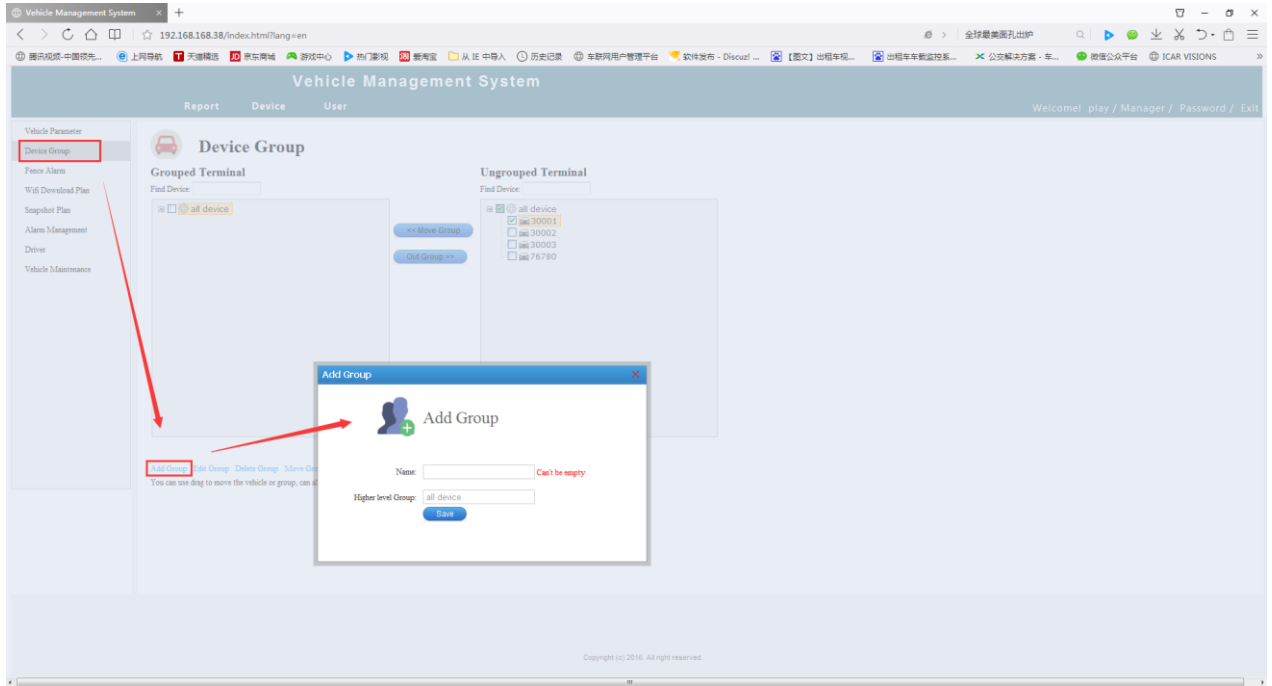
#### 3.3.1 Modify Vehicle Parameters



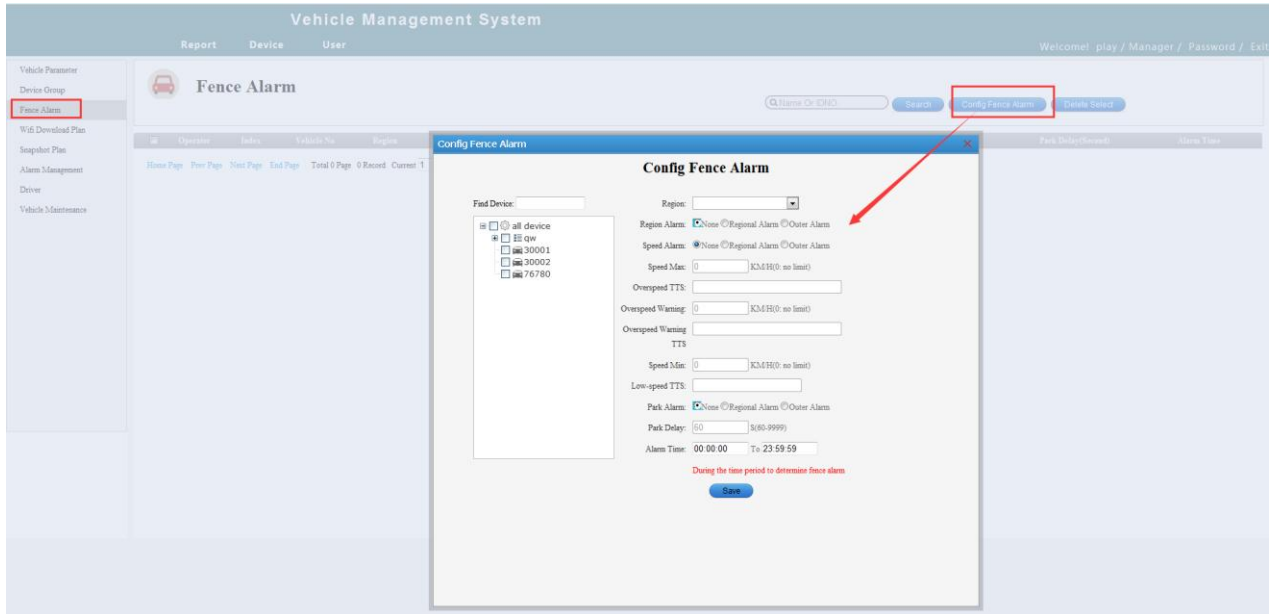
Note: you need check the corresponding module if you vehicle have connect the fuel sensor, fuel control, elec control, TTS, digital intercom and OBD. else the function don't work.

### 3.3.2 Vehicles/Devices Unit operation

The system supports multiple levels of groupings who can Add, Delete, Search and Modify by highlighting and at the same time by dragging the vehicle to be classified into different groups.



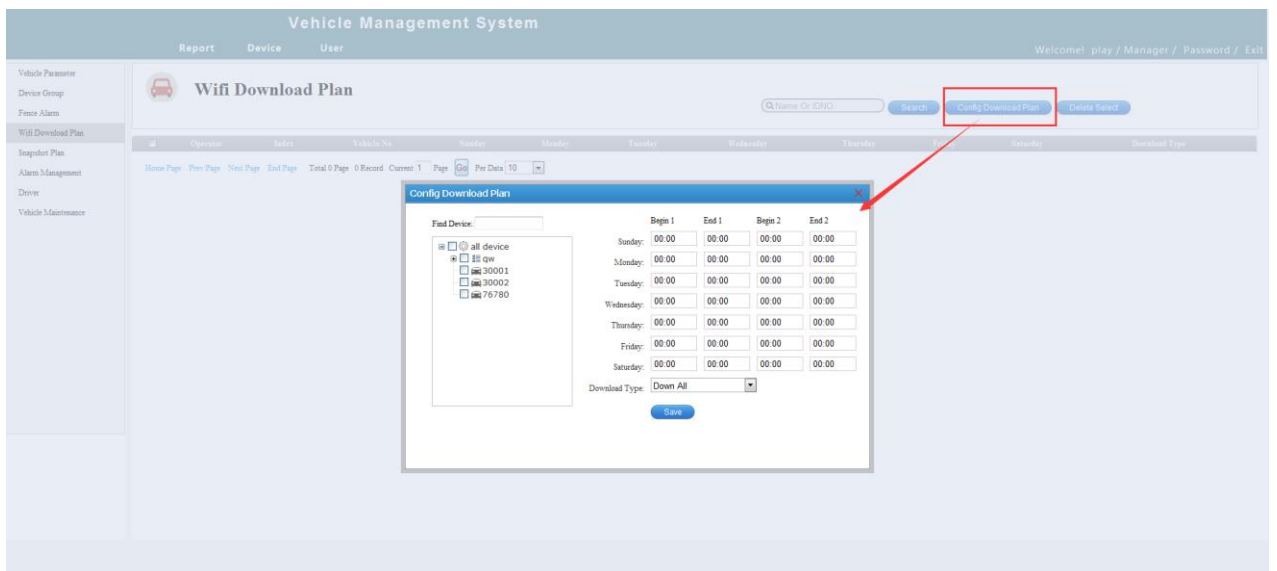
### 3.3.3. Electronic fence alarm configuration(web frontend)



you can set regional/outer region alarm, and regional/outer region speed alarm. the over speed, low speed and corresponding TTS voice remind can set as you request.

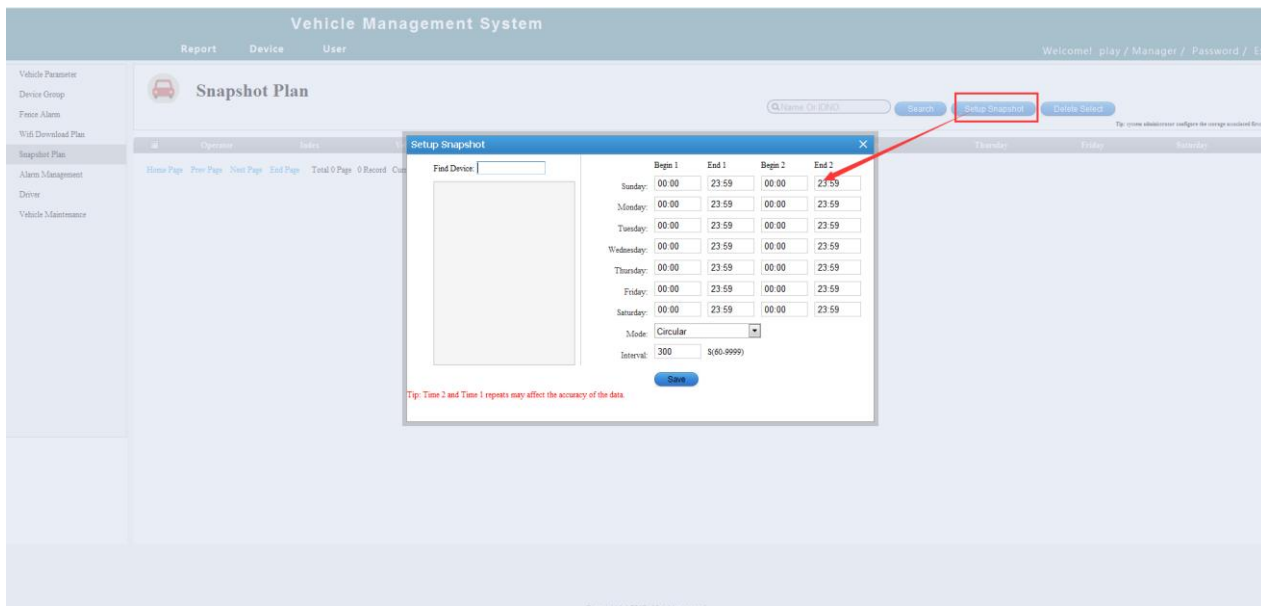
### 3.3.4. wifi download Plan

Log in foreground, Configuration the wifi download parameters, After config successfully, when the device is connected to wifi, depending on the configuration plan will go automatically download the video files on the server.



### 3.3.5. Snapshot Plan Configuration

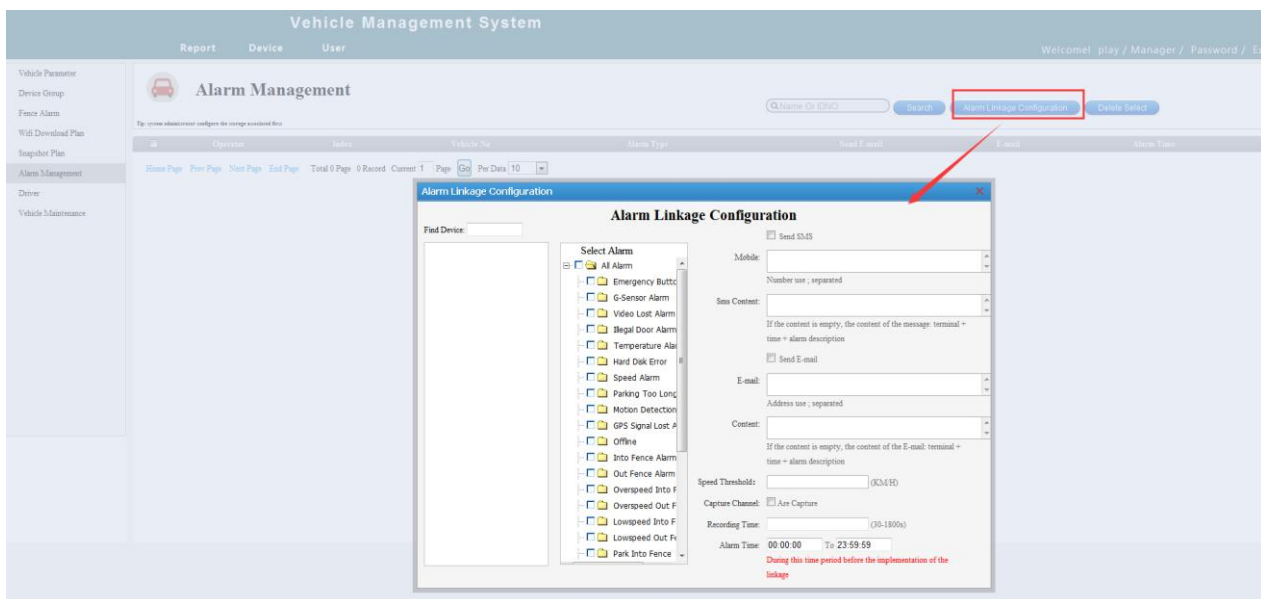
login web frontend, config snapshot plan



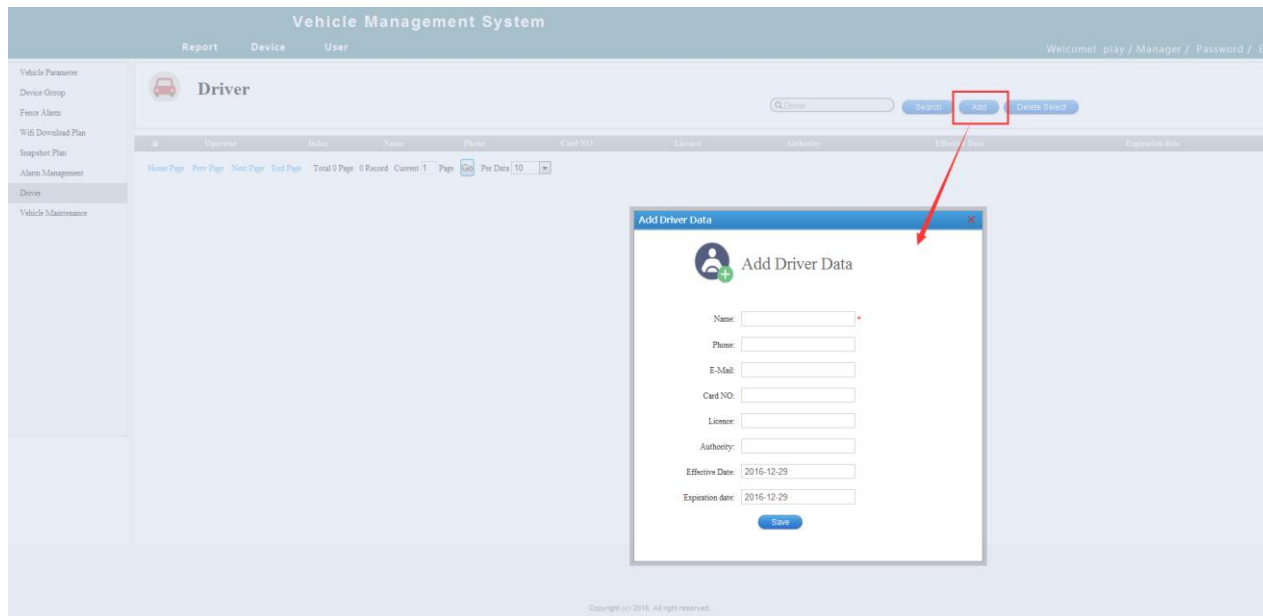
- ❖ Mode Introduction
- ✓ Circular: Grasping finished Channel 1, and then specified intervals to capture the picture of the second channel QTMovieScreen
- ✓ Independent: Each channel is independent, interval capture
- ❖ Config successfully

### 3.3.6. Alarm Management

Click on the "alarm linkage configuration" namely corresponding Settings dialog, in the pop-up box, select (vehicle) terminal (note: can multi-select) and alarm type, the user can select a text message or email, set the alarm type when it happens, the system will send SMS or email to the user's mobile phone or email notification.



### 3.3.7. ADD Driver Data



### 3.3.8. Maintenance

