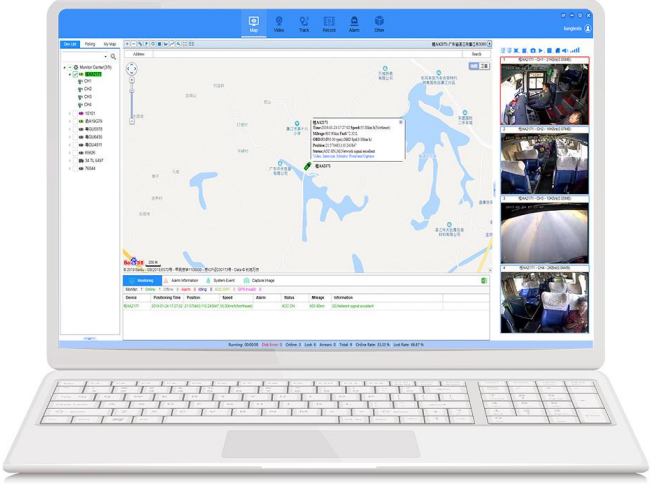
Dear users, functional setting of this software requires some expertise. Therefore, please carefully read and fully understand the instruction before use.



Intelligent Vehicle Monitoring System(IVMS Client)

Operating Manual V3.1

2019/5/30

Thank you for choosing 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 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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1、Client introduction

1.1. Platform introduction

The intelligent vehicle monitoring system V7 uses GPS satellite positioning system, Internet, mobile communication and cloud computer to create remote monitoring and management equipment/personnel in different areas, and realizes its positioning and information (such as alarm image and video ,recording , etc.) to achieve the scheduling of equipment / personnel or other operations (such as equipment violations, anti-theft, anti-robbing, etc.) The system also provides customers with accurate data analysis and detailed data reporting, customers can It is convenient to output the required data. Through this platform, wireless remote real-time video monitoring, GPS map positioning, device historical driving track playback, voice intercom, alarm linkage, remote video storage, remote download recording, remote video playback, device area management, and device remote upgrade can be realized.

The intelligent vehicle monitoring system V7 integrates artificial intelligence and big data technology, and is a comprehensive platform for comprehensively solving the safety management problems in the driving process for commercial transportation industries such as dangerous goods, public transportation, passenger transportation and freight transportation. The system design has powerful functions, good compatibility, and rich expansion, which effectively guarantees the stability of the system and the convenience of future upgrade and expansion. In addition to traditional equipment such as GPS/BD and 3G/4G video, IVMS combines driving behavior analysis and early warning equipment and forward artificial intelligence equipment to make the whole driving process completely transparent. The picture and video warning mechanism triggered by abnormal rules can be comprehensive. Improve the efficiency and level of supervision, and truly "passive" management as "active" management.

After installing the SIM card on the vehicle MDVR, and correctly setting the network settings, wireless broadband, vehicle information, etc., you can manage and monitor the vehicle by self-built or attached to the manufacturer's intelligent vehicle monitoring system V7 server. If you need to use the manufacturer's server, please contact the manufacturer's technical support. The manufacturer will provide the assigned device number, server IP and corresponding account number and password to the customer. The customer only needs to fill in the corresponding parameters of the device.

1.2. Software installation and uninstallation

IVMS Client Minimum Requirements

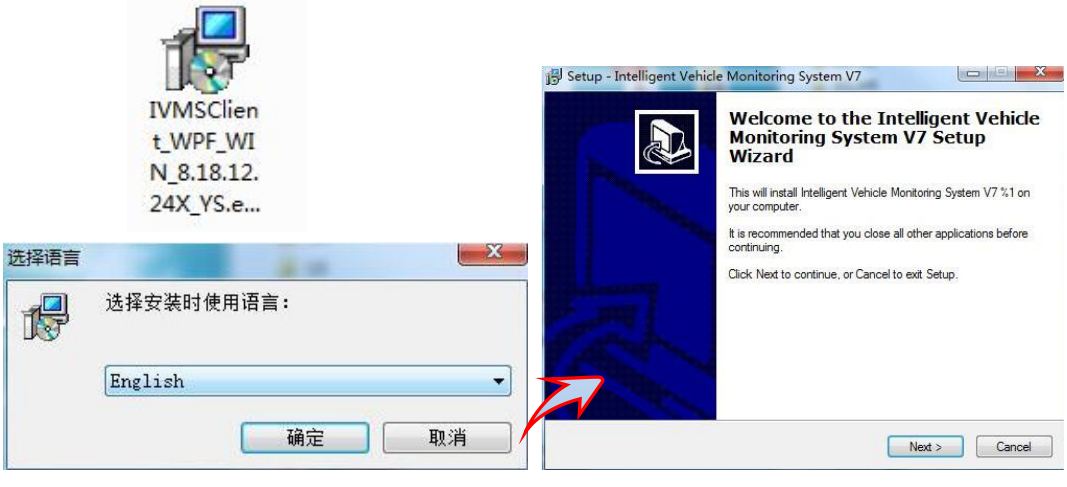
OS : Windows 7or higher (32/64 bit)

Hardware Requirements:

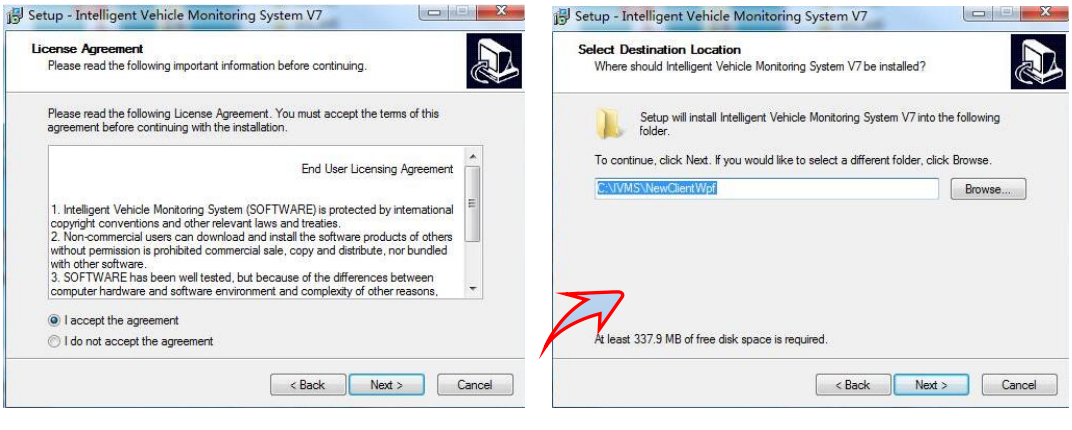
- 1.5 GHz CPU or higher
- 2G RAM
- 512 G byte HDD
- 100M bit Ethernet
- Support directX9 graphics card, memory 32M +

1.2.1 Software Installation

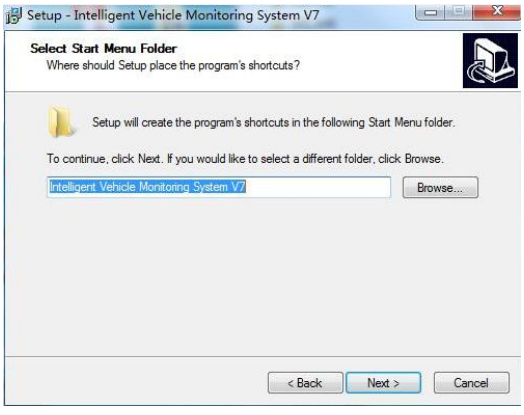
（1）Double-click on IVMSClient.exe, choose “Simplified Chinese” or “English”, click “OK”. It will show the installation wizard dialog.

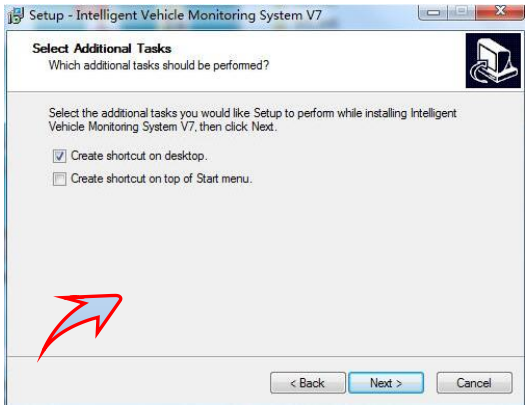


（2）Click ”Next” choose ”I agree the agreement” then enter the installation directory selection interface.(The Default directory is :C:\IVMS\NewClientWpf).To Change the installation path, click on the “Browse” button to select another path.

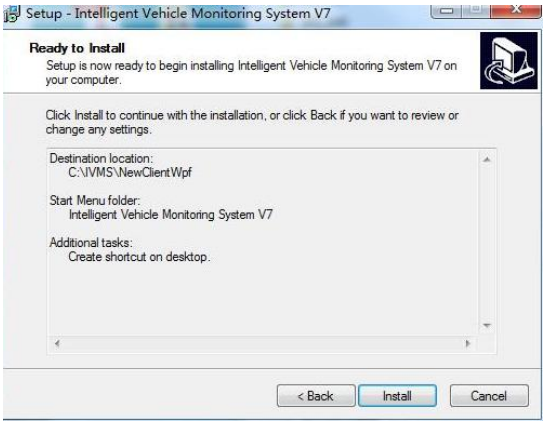


（3）Set a folder name in Start Menu, The Default name “Intelligent Vehicle Monitoring Client”. then click “next” choose Create shortcut on desktop.



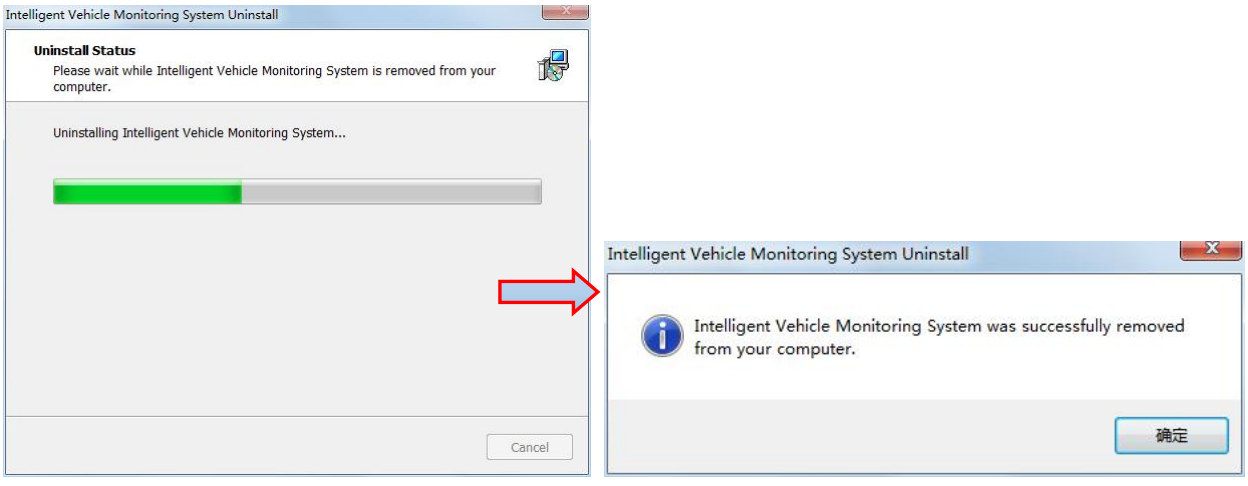


（4）click “next” you will enter ready to install interface, click “Install” and start to install it. After the software install finished you can click “finish” to launch IVMS.

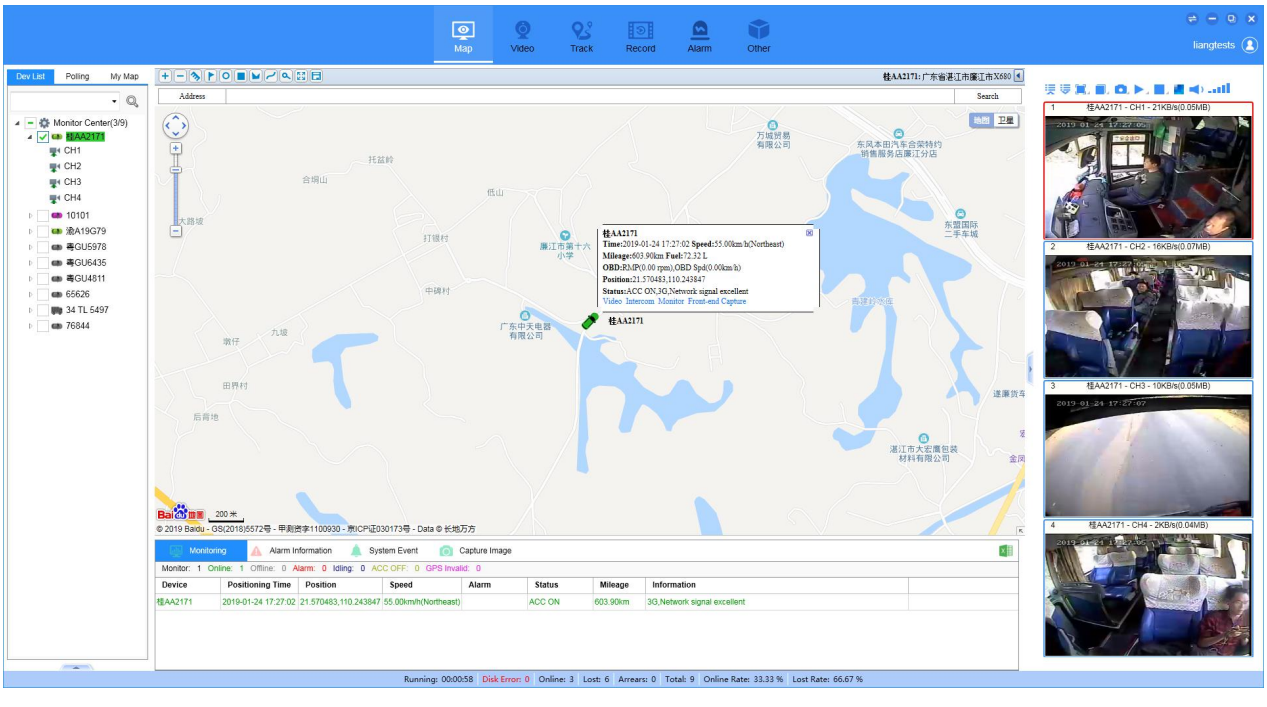


1.2.2 Software uninstallation

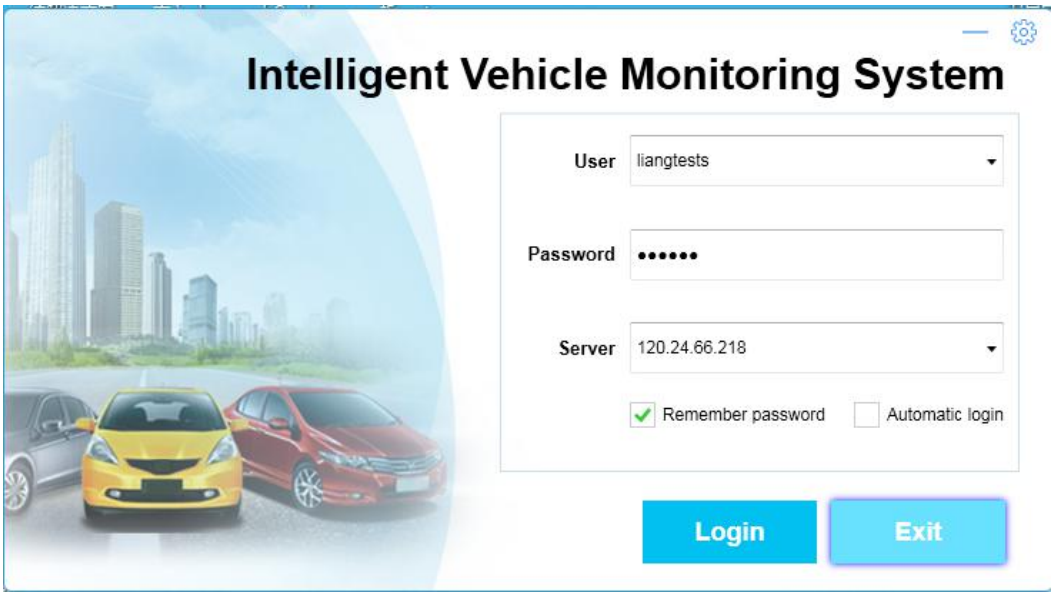
You can find the folder “Intelligent Vehicle Monitoring Client “in Start Menu---all program after install IVMS software successfully, enter this folder choose uninstall Intelligent Vehicle Monitoring Client, then click “yes”, you will uninstall this software.



1.3 Client interface introduction



PC Client Login screen：：



1.3.1 PC client introduction

The PC client main interface includes: menu toolbar, real-time monitoring area, video display area, device list, monitoring status area, and PTZ voice control area.

1. **System bar**：The system bar is located in the upper right corner and contains the switch account, minimize, maximize, and close the current account menu.；
2. **Menu toolbar**：The toolbar is located directly above, which is the main control area of the system, which is divided into real-time monitoring, video monitoring, video playback, track playback, alarm analysis, platform management, report statistics, and system configuration.

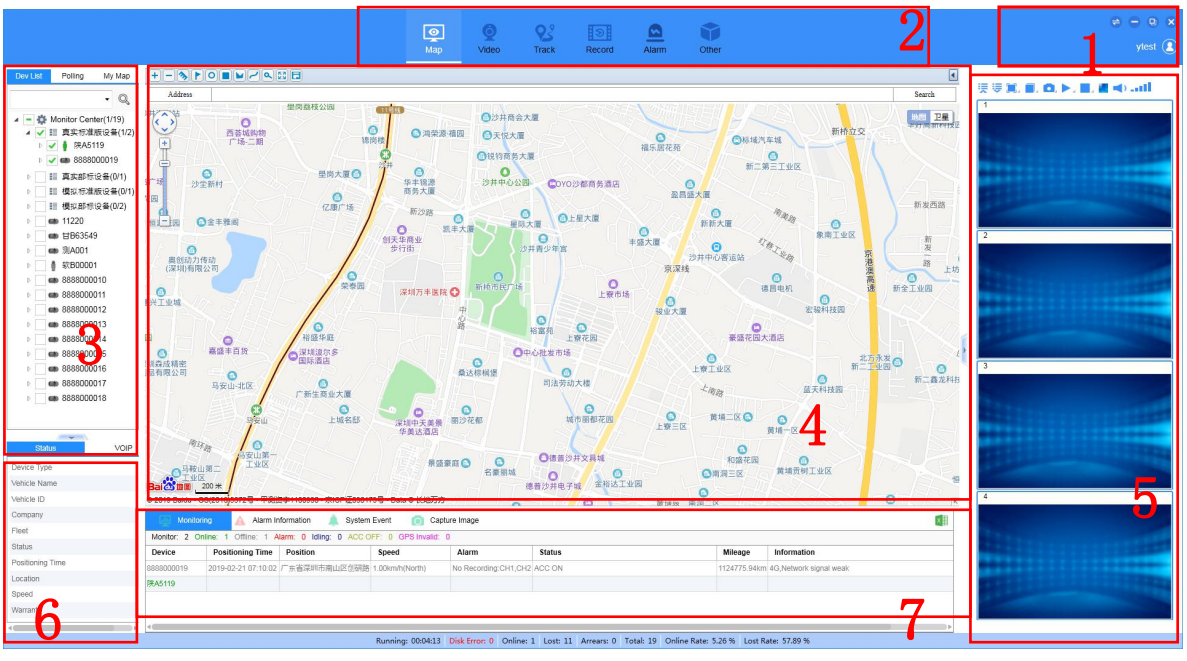
3. Device List：Contains list information for the device, polling list, my map. The polling list can be set to switch a set of customized channel videos within a specified time; records of points, faces, and areas marked by the user on the map can be saved in my map list.

4. Real-time monitoring area: View information such as the location of the device on the map, and locate the specified vehicle.

5. Video display area: you can set the number of screen display, size ratio, computer and remote capture.

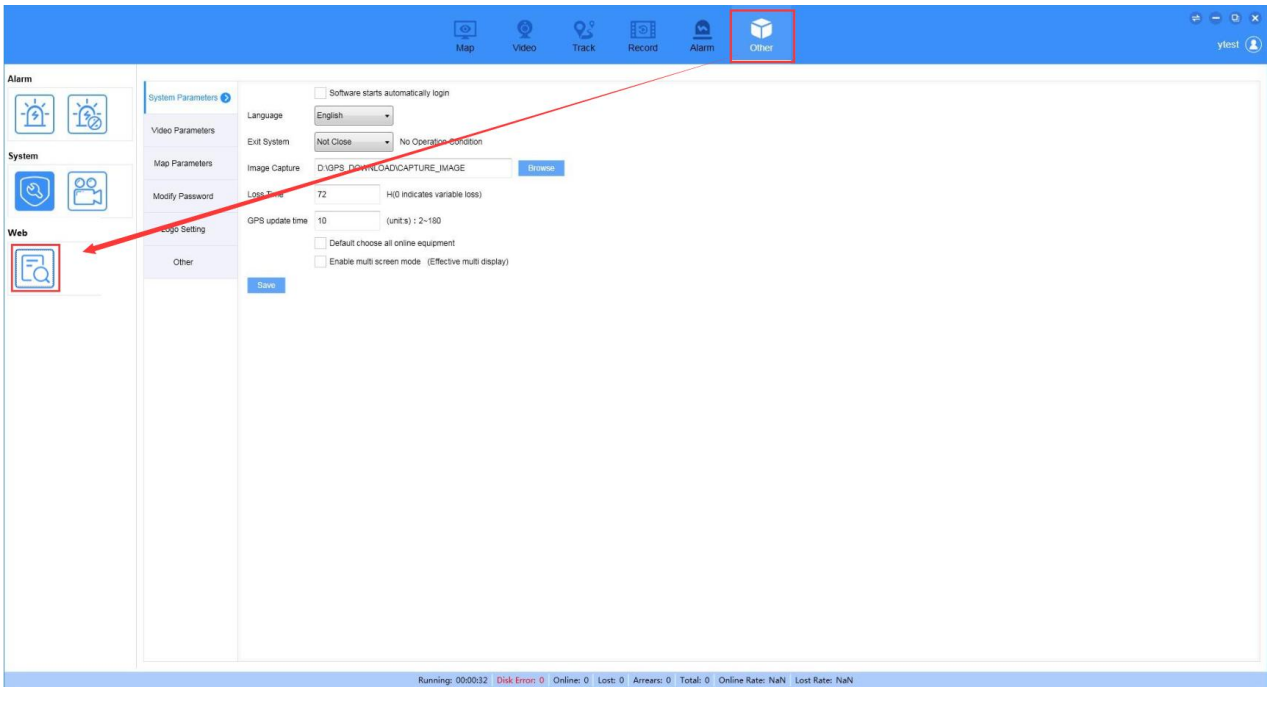
6. PTZ voice control area: For the operation of the PTZ, such as rotation angle, focus adjustment, aperture, light, wiper, etc.; the voice control area can talk, listen and send broadcast information with the device.

7.Monitoring status area: Contains device status, IO status, device information, recent alarms, system events, map overlays, OBD, and more.Displays information such as current basic information, IO status, device information, recent alarms, and OBD of the selected device.



1.3.2 Web client introduction(In development)

Log in to the WEB client (click on the toolbar: Other Apps, then click on Web: Report Query, as shown below)



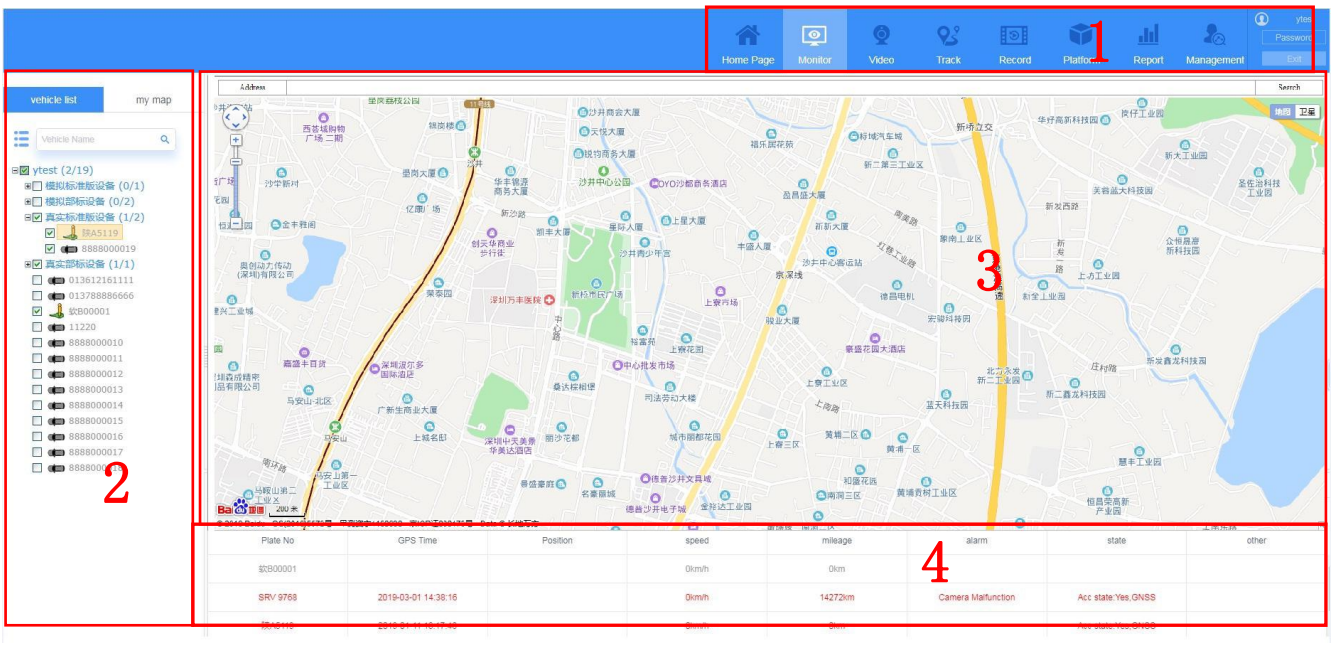
The main interface of the WEB client includes: the home page, the menu toolbar, the real-time monitoring area, the video display area, the device list, and the monitoring status area.

1. Menu Toolbar: The menu toolbar is located at the upper right. It is the main control area of the system. It is divided into the main column of the home page, real-time monitoring, video playback, track playback and so on.

2. Device list: contains list information of the device, my map. The records of points, faces, and areas marked by the user on the map can be saved in my map list.

3. Real-time monitoring area: View information such as the location of the device on the map, and locate the specified vehicle.

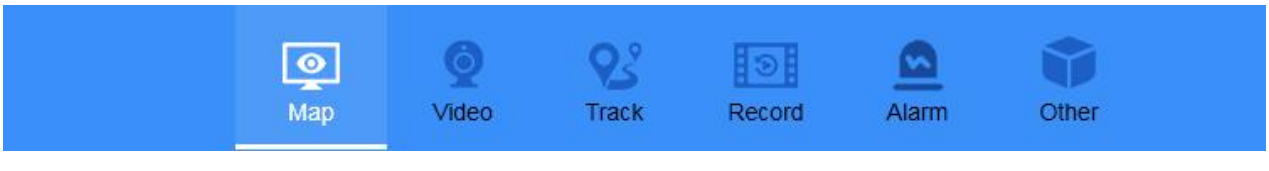
4. Alarm information bar: Display alarm information in real time.



2、PC client function introduction

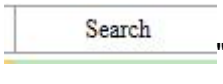
2.1. Menu toolbar

The IVMS software view can be quickly switched through the shortcut toolbar.



2.1.1 real time monitoring

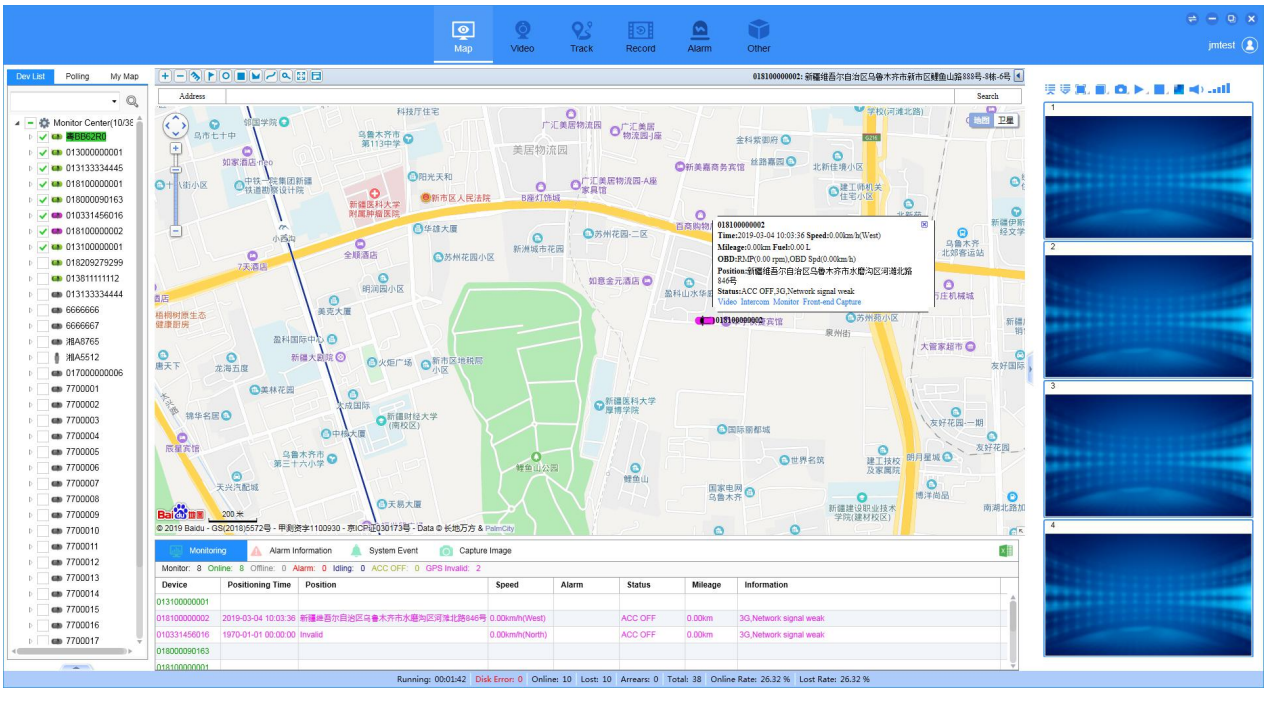
The real-time monitoring view monitors the main display area for real-time monitoring, and the left and right are the device list and the video display area.

- Enter the address in the address bar and click " 

" to search for the location of the address on the map;
- Click " 

" to switch between map and satellite map;

❖ Click "  " to zoom in or out on the map.



Click on the vehicle name on the device list, the vehicle will be centered on the map, and you can see the basic information of the vehicle, including: license plate number, time, speed, mileage, location, status, and so on.

2.1.2 Video Surveillance

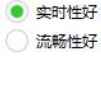
The video surveillance view monitors the main display area as the video display area, and the left and right are the device list and real-time monitoring. Double-click on the device list to remotely preview the surveillance video.

❖ Click “  ” to switch the number of video screen displays, optional 1/4/6/9/16/36/64/100, default 16 screens;

❖ Click "  " to switch between the previous or next set of videos;

❖ Click “ 

” to select the video display scale, and select “” three ratios;

❖ 

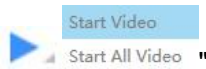
Click " 

" to switch between real-good or fluent good;

❖ Click " 

" to select a snap shot or front capture;

❖ Click “  ” to open the audio monitor (the front camera needs to have audio function, or another pickup)

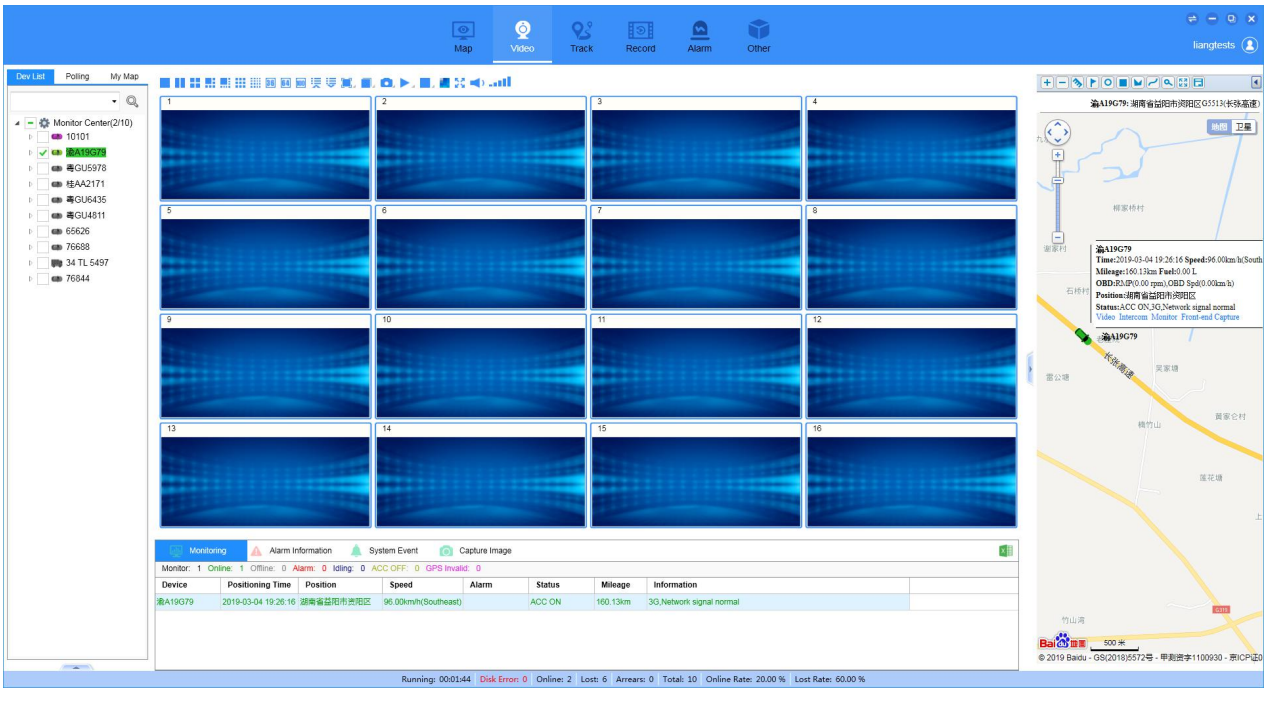
❖ lick " 

" to open the video, pull down to open all videos or open the video;

❖ Click " 

" to stop the video, pull down to stop the video, stop all videos, clear the data and clear all the data.

❖ Click "  " to display the video preview monitor in full screen.



2.1.3 Track playback

After switching to the track playback interface, as shown below. In the search terminal, select the terminal that needs to search for track playback, then set the time end that needs to be searched, click “Search” to complete the search of the track and automatically play back.

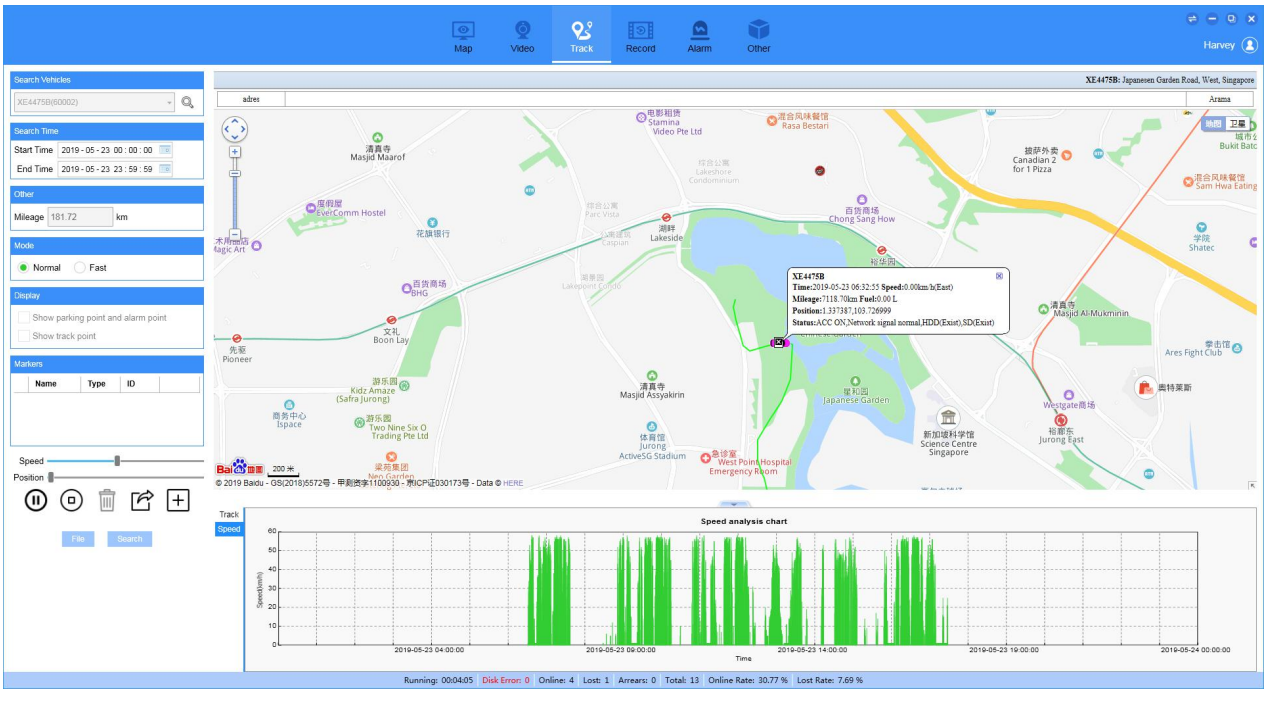
❖ **Mileage:** The total mileage of the current vehicle on the day

❖ **Mode:** select normal playback or fast playback

❖ **Display:** Check the display track point, the GPS point will be displayed, the parking point and alarm point will be displayed, and the GPS parking point will be displayed.

❖ **Markers:** Show tracks within the marked area

❖ **Speed:** control the speed of track playback



Click " " to start or pause the track playback;

Click " " to stop the track playback;

Click " " to delete the GPS track data;

Click " " to export GPS track data;

Click " " to add the searched track as a line;

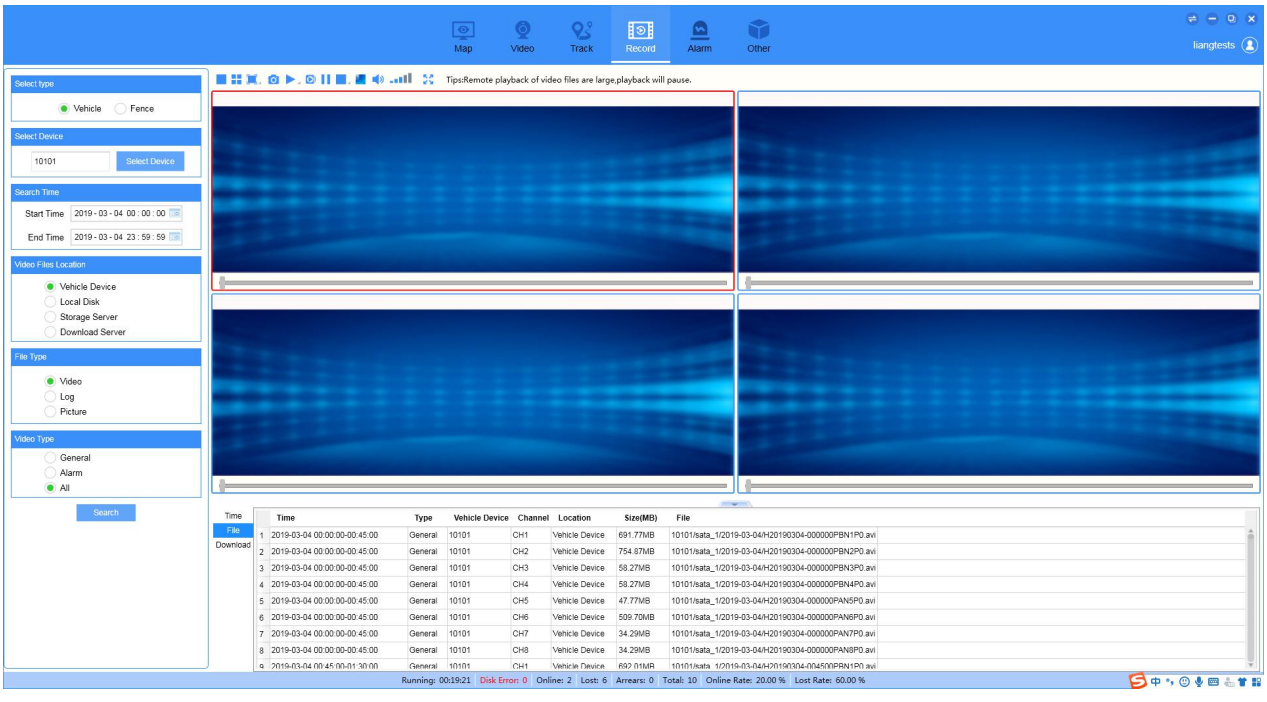
Click " File " to display a list of the history of the searched tracks.

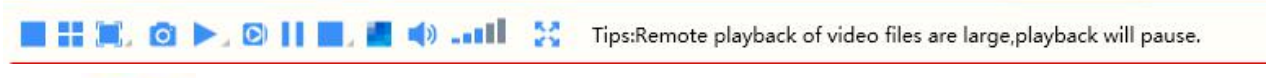
2.1.4 Video playback

After switching to the video playback interface, as shown below. Select the terminal that needs to search for video playback in the search terminal, and then set the time end that needs to be searched. Click “Search” to complete the search of the recording file. The green area represents the recording during this time period. Double-click the green area to play the video.

- File location: optional terminal device, local disk, storage server, download server
- File type: optional video and image
- Recording type: Optional regular recording, alarm recording and all recordings.

Note: The video file of the video playback terminal device may have network delay and need to generate 3G/4G traffic charges. Please use it with caution!





Click “  ” to switch the number of playback video screen display, optional 1/4, default 1 screen;

Click “  ” to select the video display scale, and select “ 

” three ratios;

Click "  " to open the video, pull down to open all videos or open the video;

Click "  " to stop playing the video file;

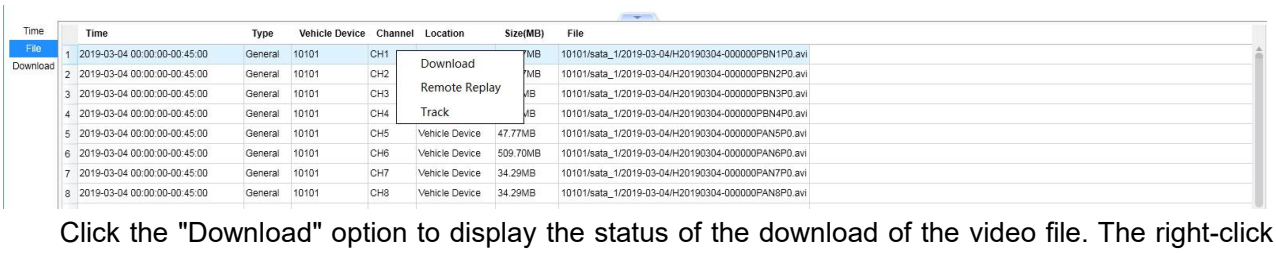
Click "  " to pause the playback of the video file;

Click "  " to play the video file frame by frame;

Click "  " to turn off and turn on the audio of the recording file;

Click "  " to play in full screen;

Click the "File" option to display a list of video files, right-click files to select local download (download video files to local), remote playback (playback video) and track playback (search for the track of the video)

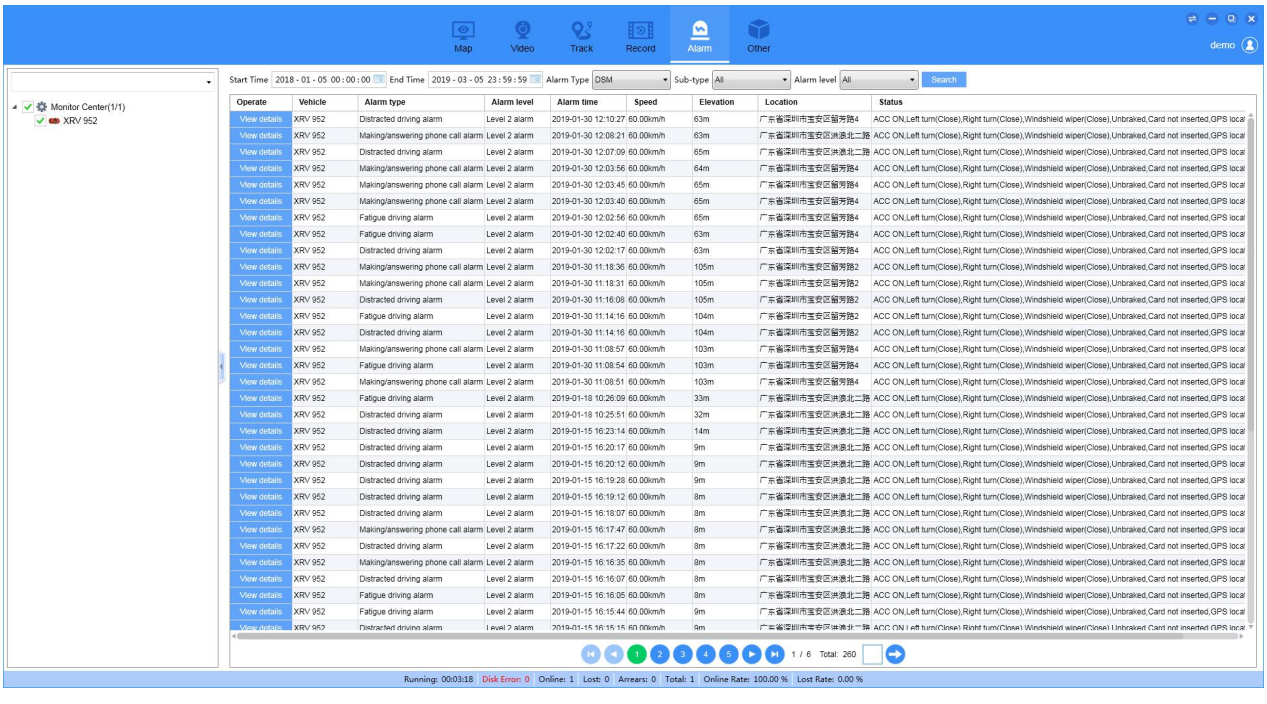


Click the "Download" option to display the status of the download of the video file. The right-click file can be opened to open the file storage folder. Select Stop download to terminate the file being downloaded, delete the file, and change the file download storage path.

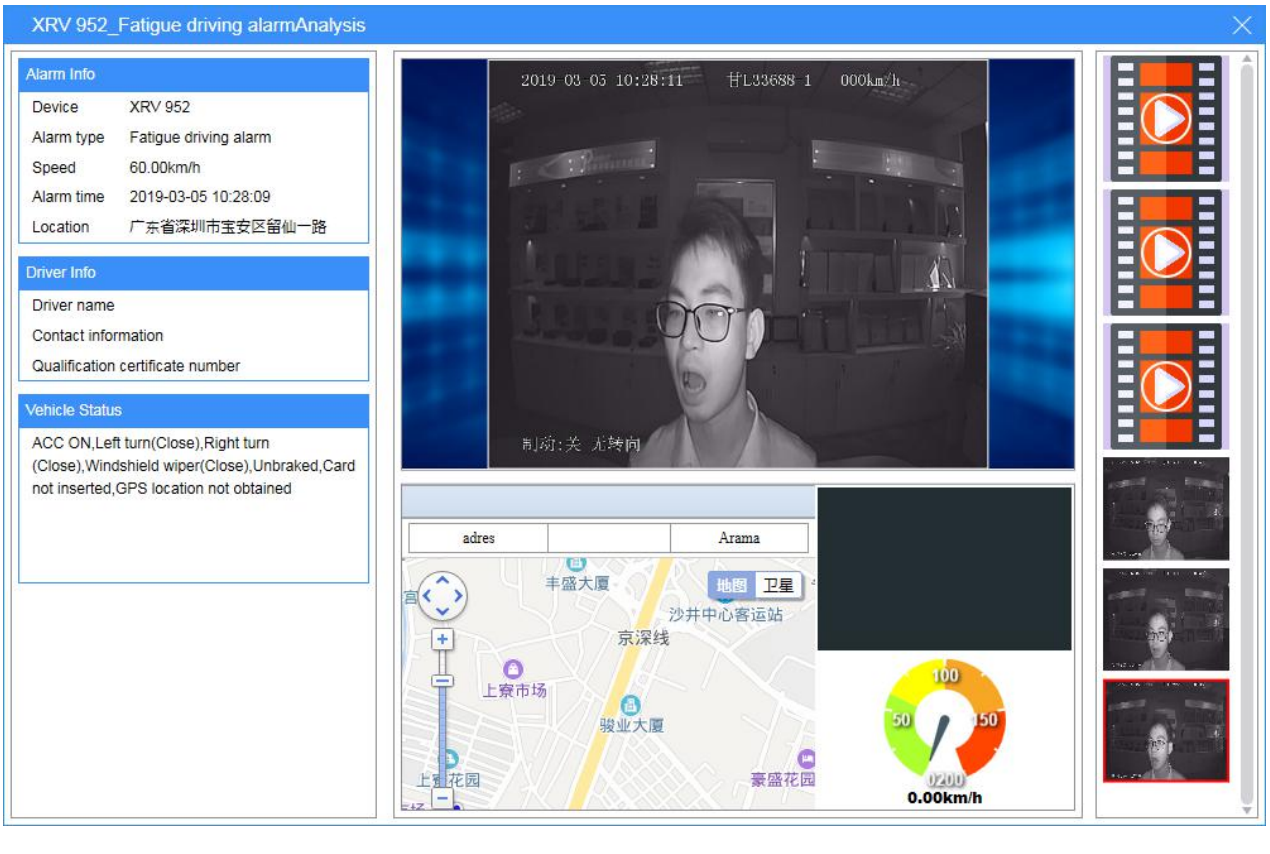
2.1.5 Alarm analysis

After switching to the alarm analysis interface, you can query the alarm list such as ADAS, DSM, face recognition, and illegal operation, as shown below. After selecting the vehicle, time, and alarm type, click “Query” to complete the search of related alarms. After selecting one of the alarm information, click “View Details” to view the video, picture, geographic location and other information of the alarm at that time.

Such as DSM alarm:

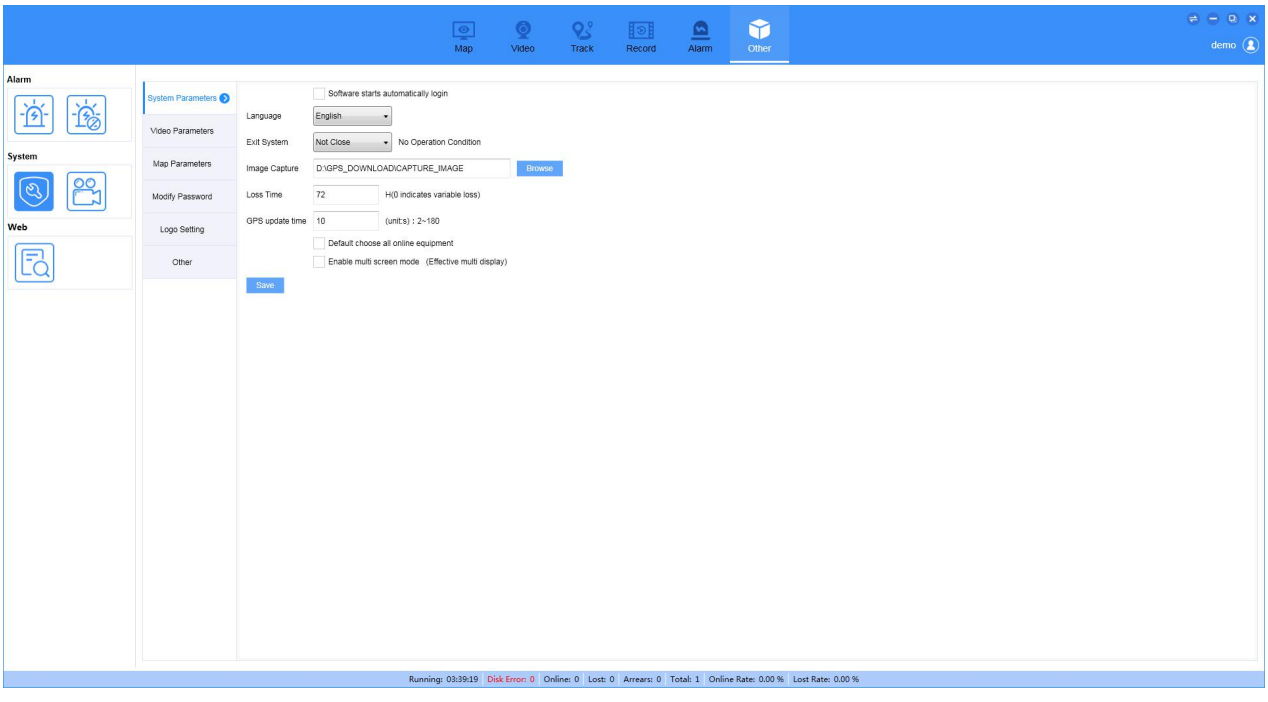


see details：



2.1.6 Other

After switching to other application interfaces, you can set alarm linkage settings, alarm mask settings, system settings and recording settings. These settings are described in detail in 2.1.1 Menu Settings, which are not described here. Click “Report Query” to enter the web client management interface. For details, please refer to the third part.

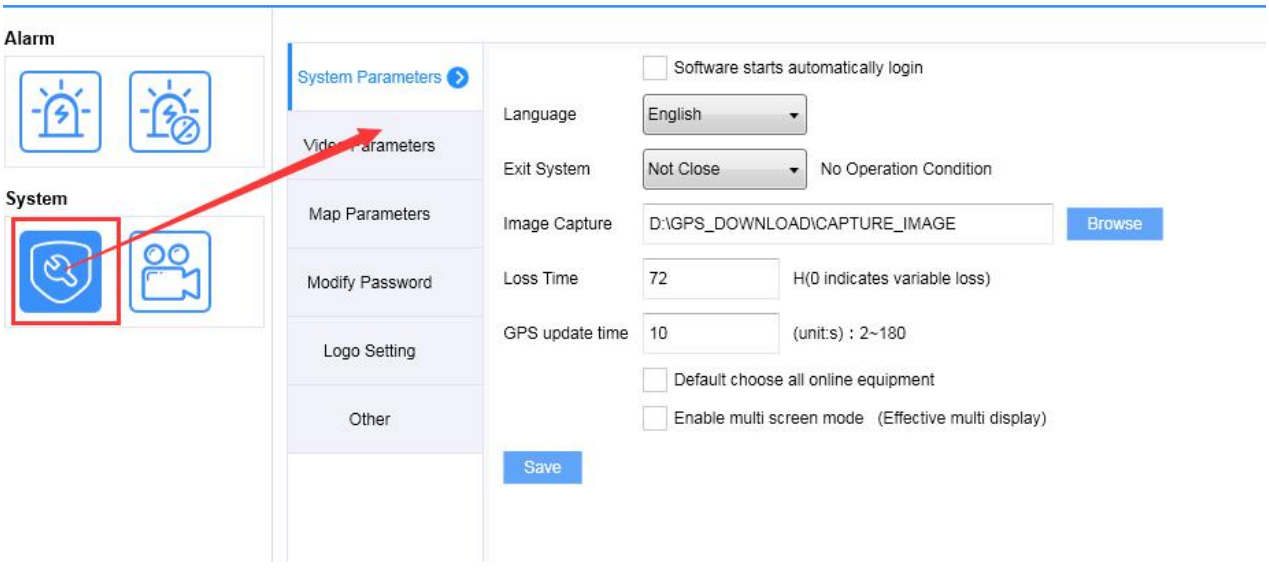


System settings:

System parameters, video parameters, map parameters, modification passwords, LOGO settings, and hotkey settings can be set.

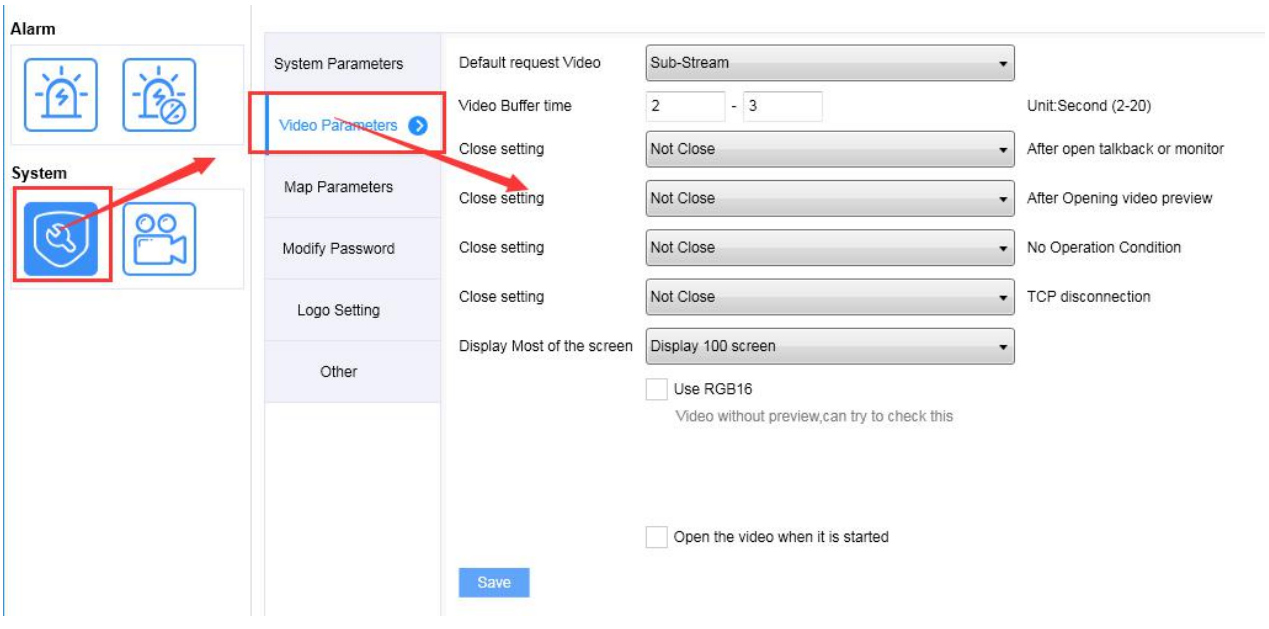
(1) System parameter setting：

- System language: Chinese simplified, Chinese traditional, English, Turkish, Thai, Russian, Spanish, Bulgarian, Romanian;
- Exit the system: the customer can set the system to automatically exit the system at 10/15/30/45/60min without operation;
- Image capture: set the local storage path for image capture;
- Fixed loss time: How many hours can be set, the vehicle does not go online to determine the loss, the default is 72h, 0 means no fixed loss;
- GPS Time Update: can be set to 2 ~ 180s, 5S default;

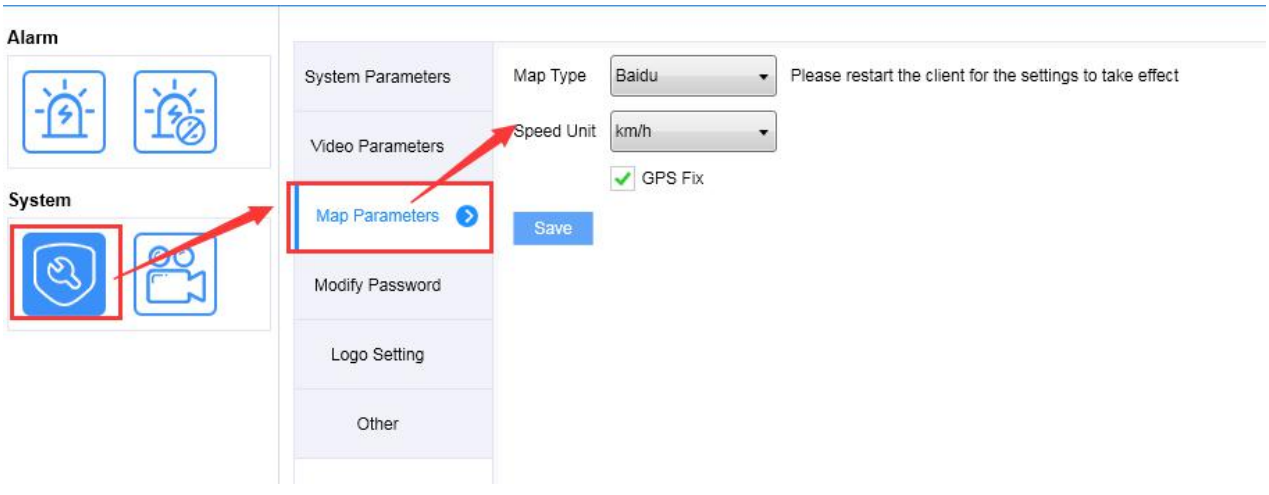


(2) Video parameters：

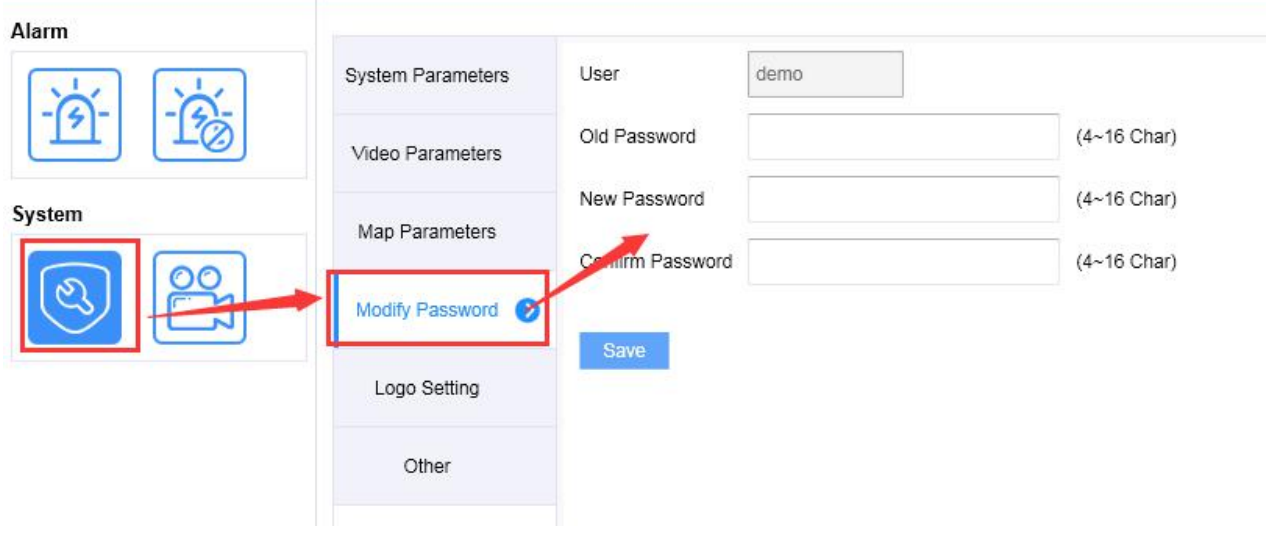
- ❖ Default request video: refers to the video stream currently requested by the intelligent vehicle monitoring system V7, optional sub-stream/main stream;
- ❖ Video buffer time: can be set 2~20s, default 2~3s;
- ❖ Turn off the intercom and monitor: After turning on the intercom and monitor, you can set the auto off time 1/5/10/15/45/60min, etc., the default does not automatically close;
- ❖ Turn off the video settings: After the video preview is turned on/the client does not operate, the auto-off time can be set to 1/5/10/15/45/60min, etc., and the default is not automatically turned off;
- ❖ Display the highest screen: optional 16/36/64/100 screen, default 16 screens;
- ❖ Checking the use of RGB16 mode, turning on the video while opening the sound, saving the preview image and digital watermark will enable the corresponding function.



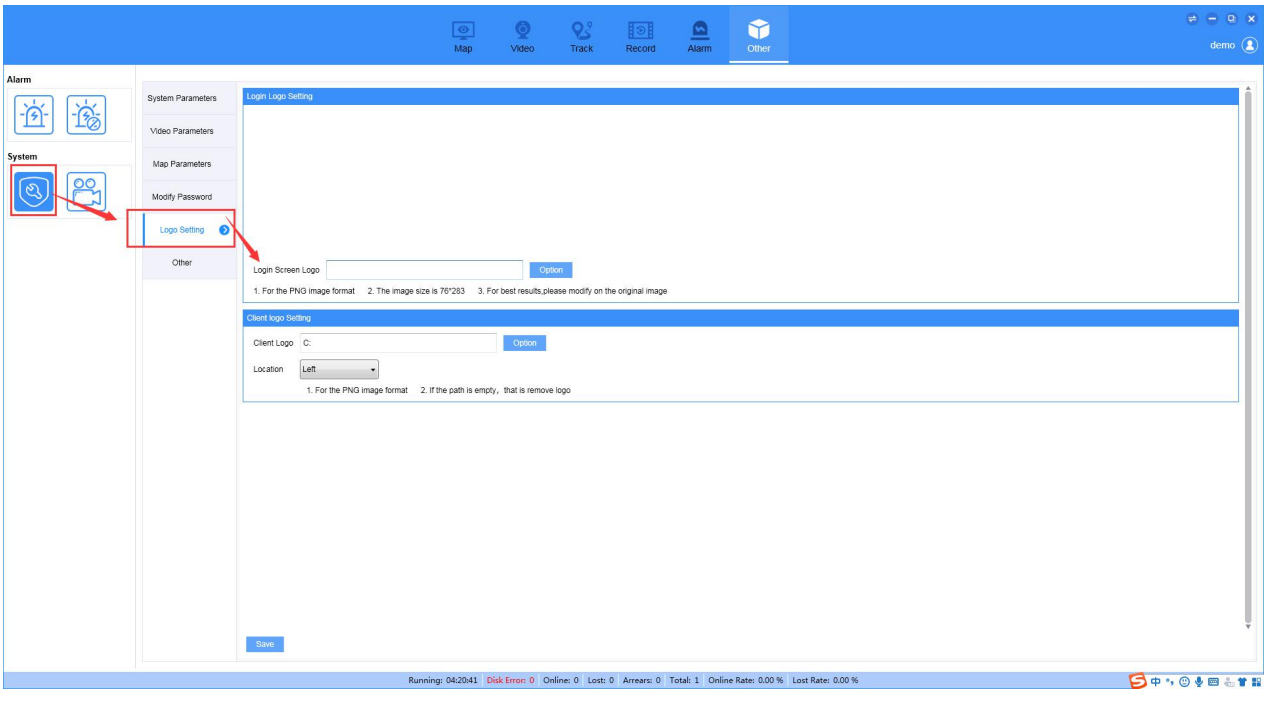
(3) Map parameters: Maps can be selected from Baidu, Google and Mapinfo; speed units: MPH, km/h respectively.



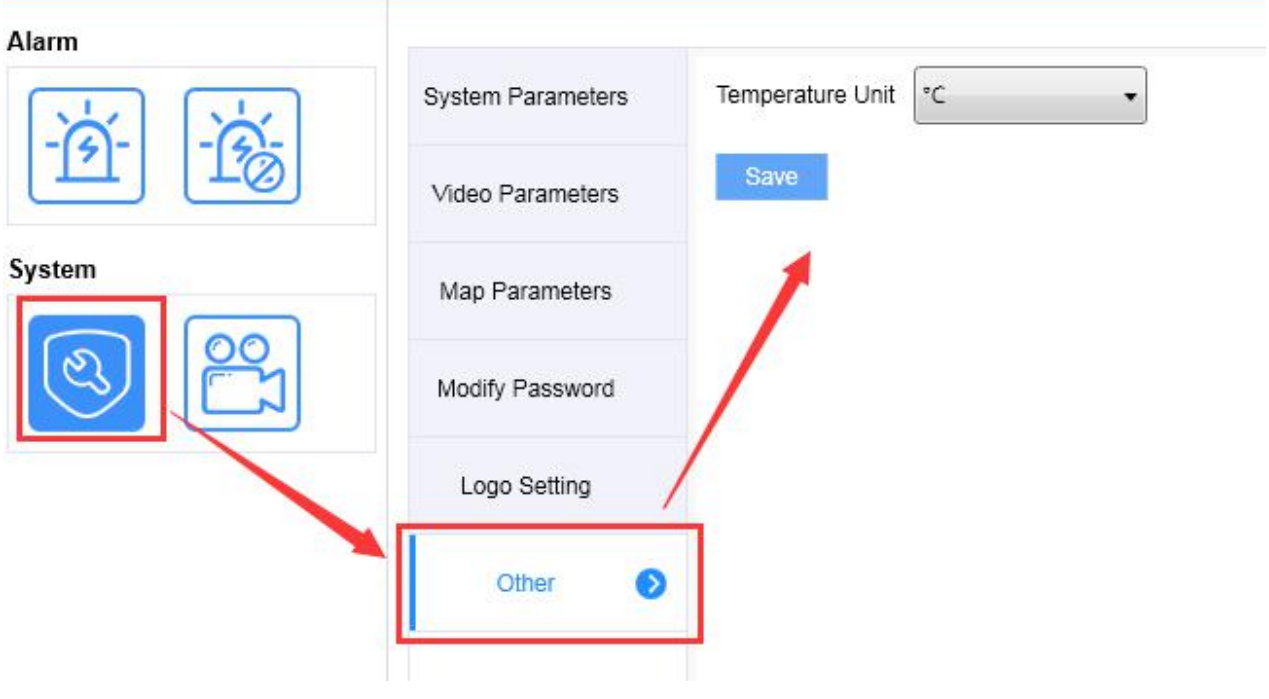
(3) Modify password: You can change the password of the login IVMS client account.



(4) LOGO setting: customers can DIY login logo and client logo, the picture format is PNG, login logo image size: 376*283;



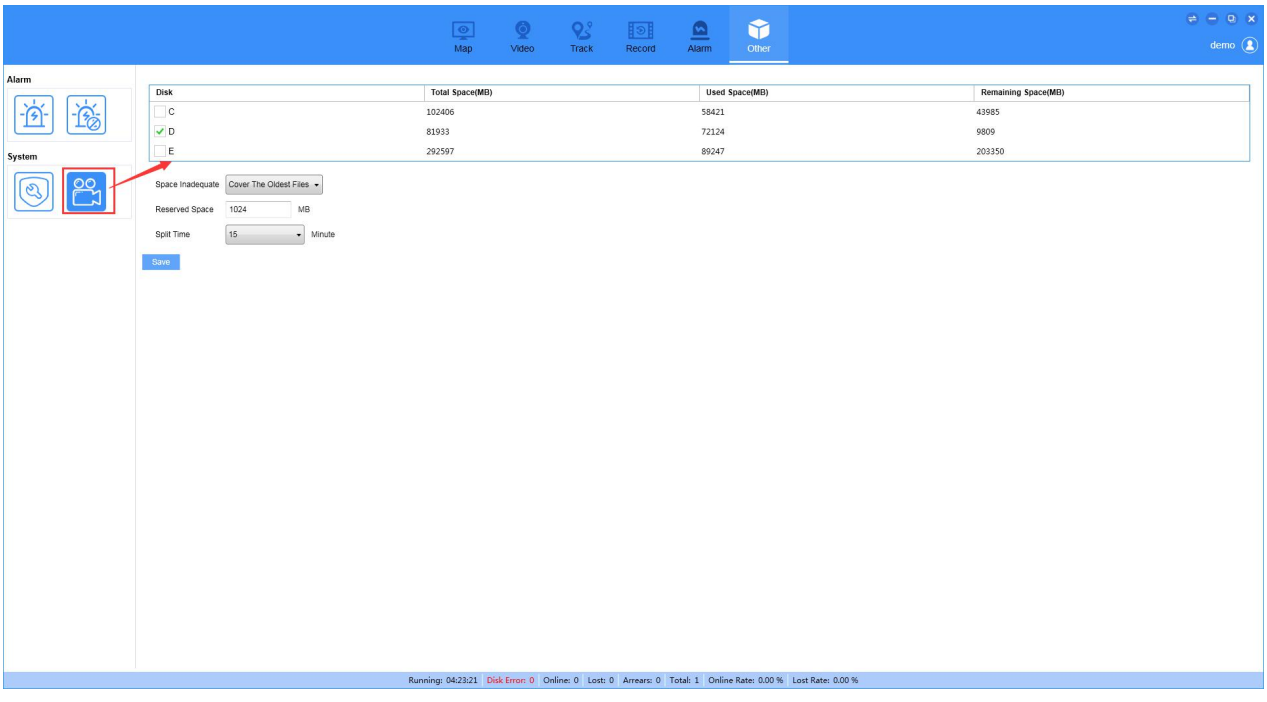
(5) Other: Customer can set temperature unit °C, °F



Video settings:

The storage disk of the recording can be managed.

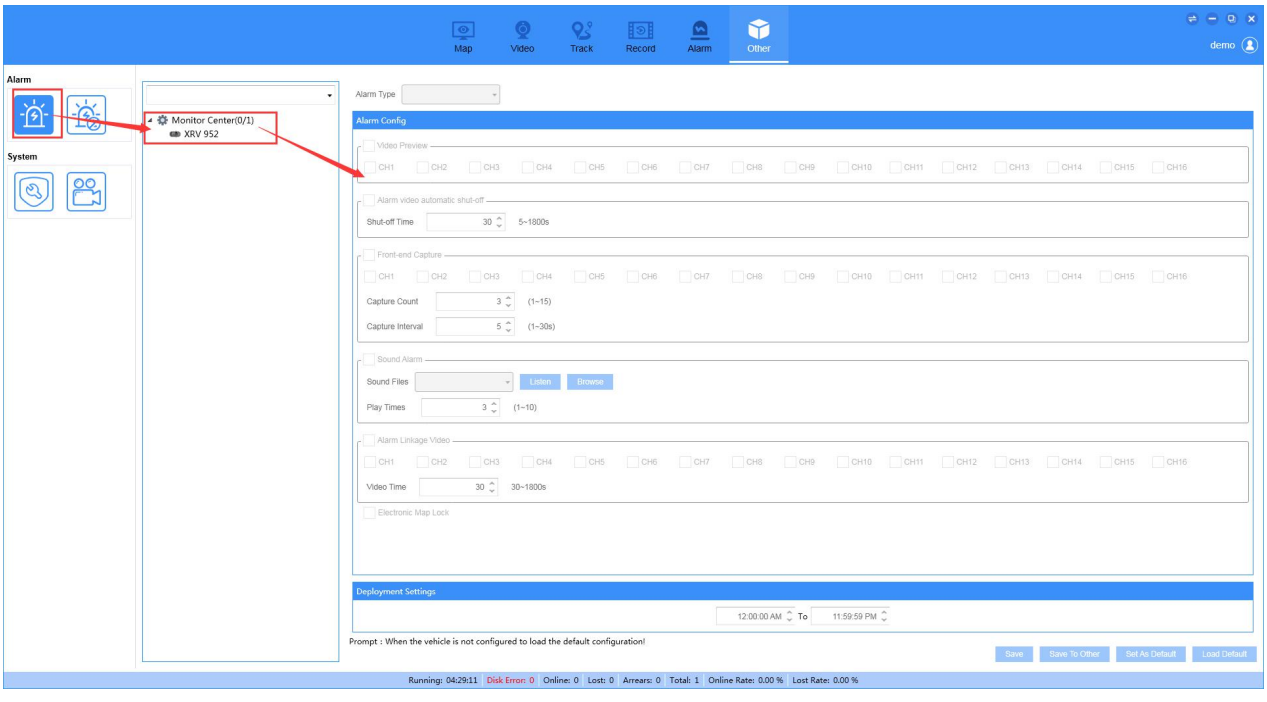
- ❖ Insufficient space and reserved space: When the storage space is insufficient, you can set the stop operation/overwrite the oldest file. The reserved space can be set by yourself. By default, when the disk storage space is less than 1024MB, the oldest file is automatically overwritten.
- ❖ Segmentation time: The time of video segmentation, you can set a video of 15/30/45/60min, the default is 60min.



Alarm linkage setting：

It can set the linkage feedback after some kind of alarm is triggered. First, select the vehicle to be set in the vehicle list, then select the alarm type, such as the emergency button alarm, and finally set the alarm linkage.

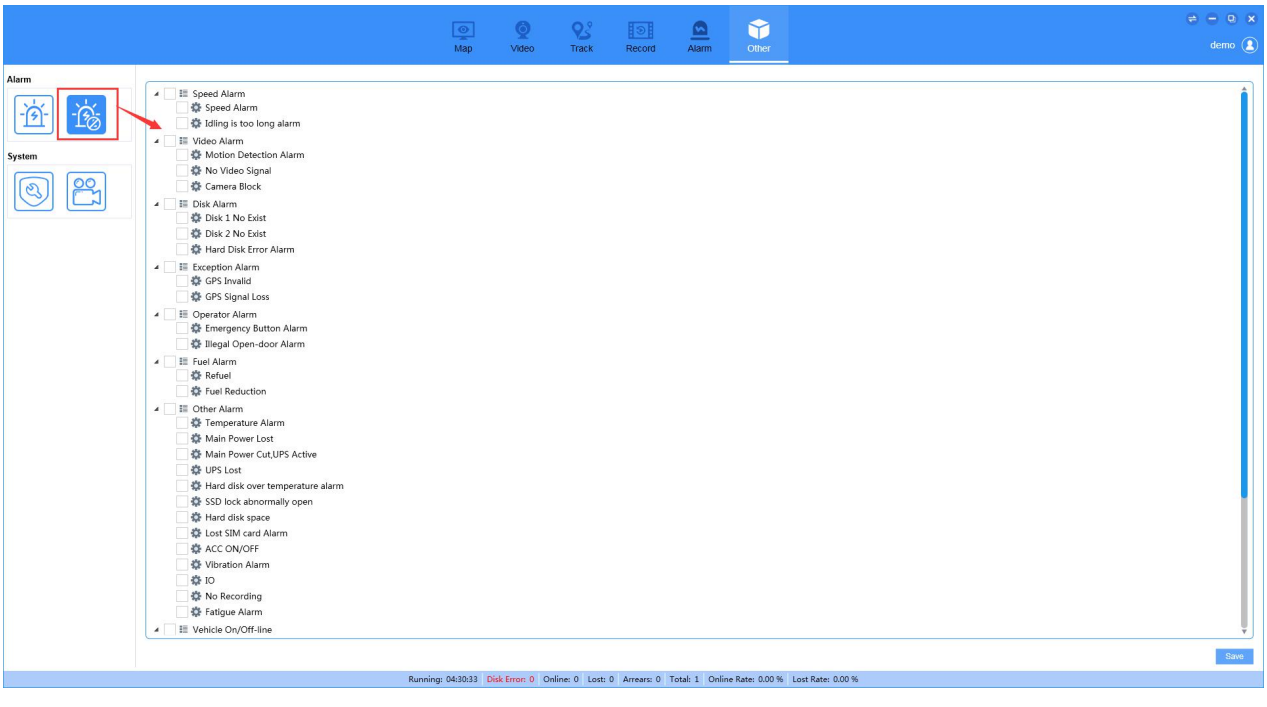
- Video preview: After selecting the channel, when the alarm is triggered, the video of the corresponding channel will pop up;
- The alarm video is automatically turned off: the alarm video auto-off time 5~1800 can be set, the default is 30s;
- Front-end capture: After selecting the channel, when the alarm is triggered, the picture will be automatically captured. The number of captures (1~15) and interval (1~30s) can be set. The default capture interval is 5s, and 3 pictures are captured.
- Audible alarm: The customer can upload the alarm sound file and set the number of plays (1~10), the default is 3 times;
- Alarm linkage recording: After selecting the channel, when the alarm is triggered, the recording will start automatically. The recording time can be set from 30~1800s, the default is 30s;
- Real-time monitoring lock: When checked, when the alarm is triggered, the alarm vehicle will be centered on the map;
- Automatic voice intercom: After checking, when the alarm is triggered, the platform automatically turns on the voice intercom.



Note: It can be set to be armed 24 hours a day, and the alarm linkage setting can be saved to multiple terminals.

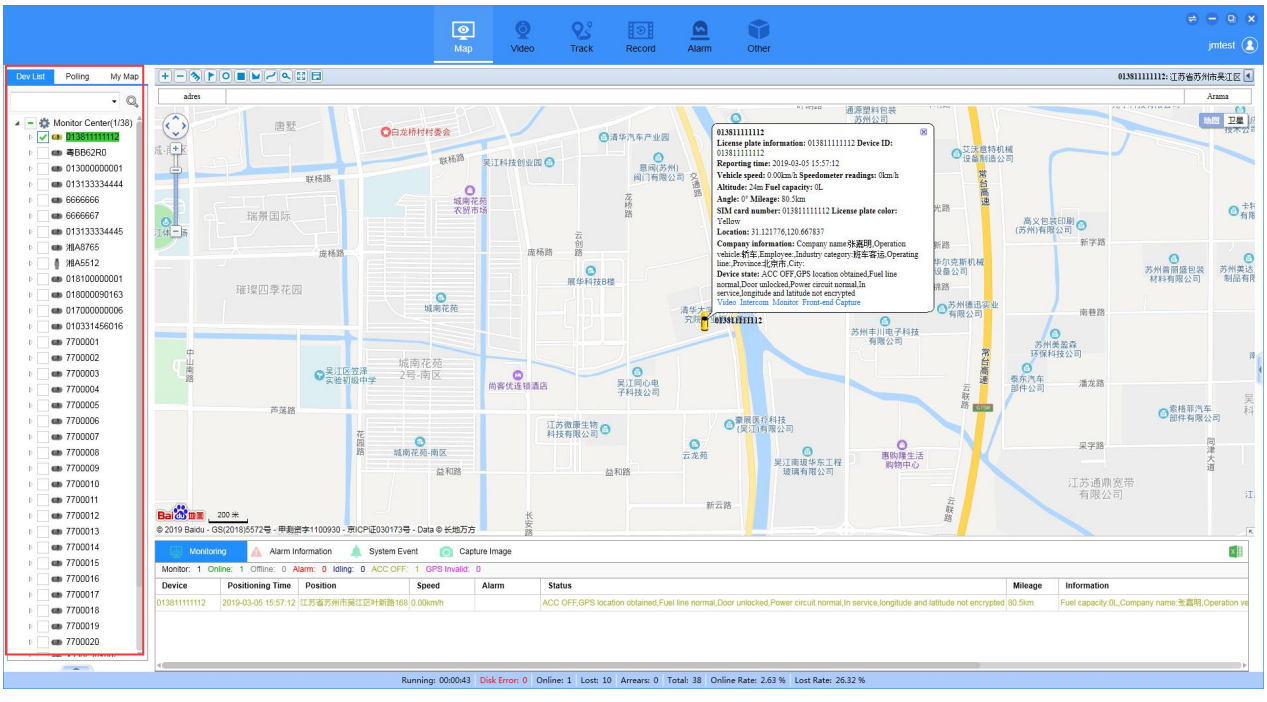
Alarm mask setting:

The customer can tick the type of alarm that does not require an alarm prompt according to his or her own needs. When selected, the alarm prompt will not be displayed in the "alarm information".



2.2. Device List

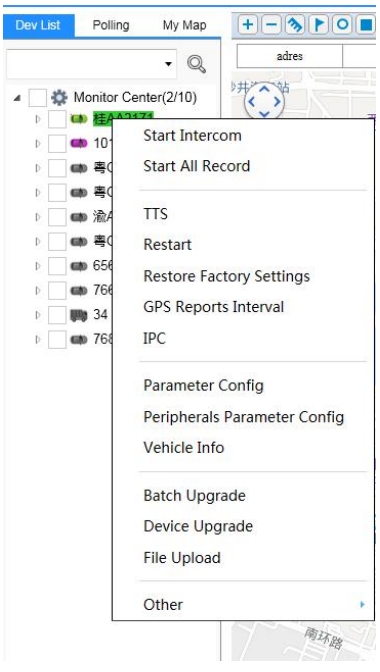
The device list contains the terminal device, the video polling list, and my map.

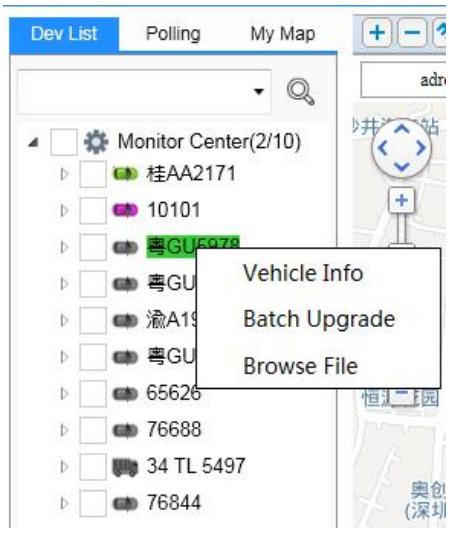


2.2.1 Terminal list management

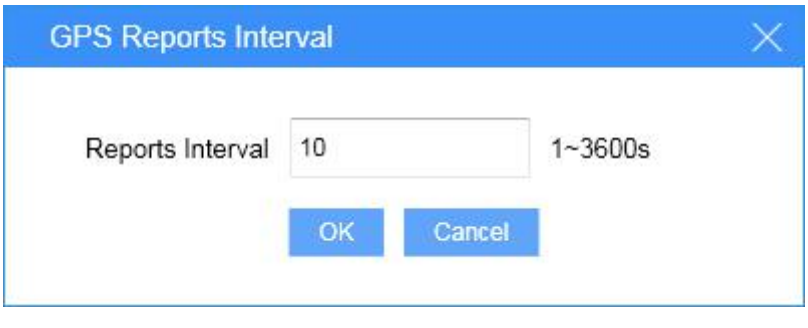
Through the terminal list, you can see all the terminals added to the management user. The system manages the terminal through the device number. Click the device number to center the device on the map; double-click the device number to open the real-time monitoring video; right click to start intercom/monitor, turn on all recordings, restart the device, restore factory settings, mileage clear, GPS reporting interval, Parameter configuration, terminal information, batch upgrade, device upgrade, file upload, department mark, and others.

Note: When the vehicle is offline, it only supports viewing terminal information, batch upgrade, and browsing files.

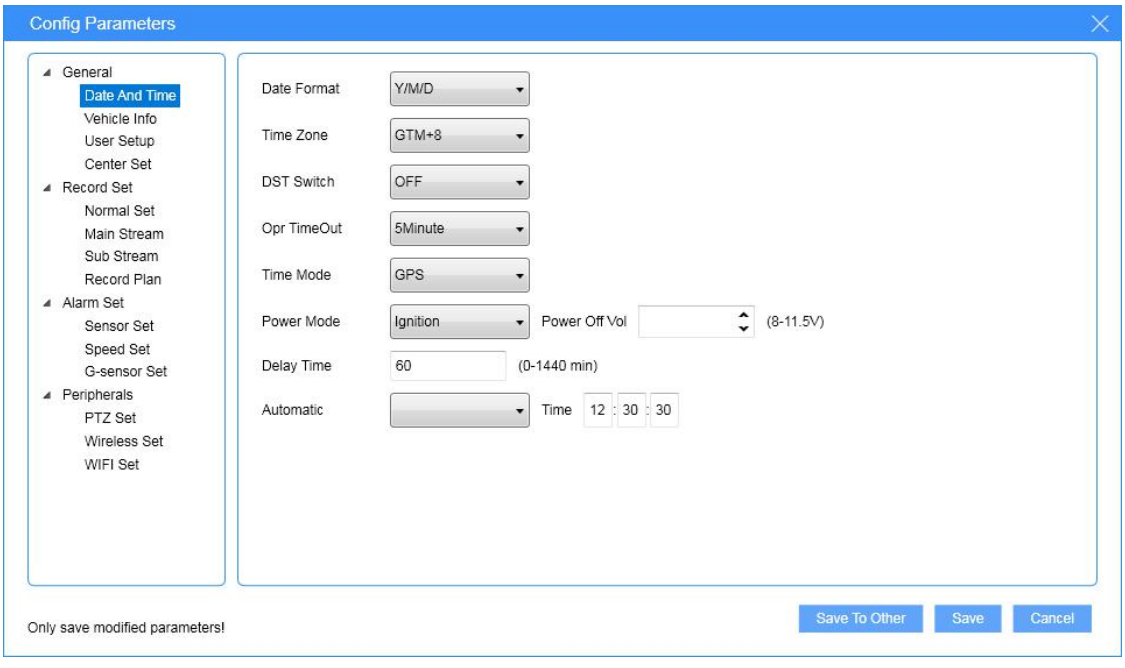




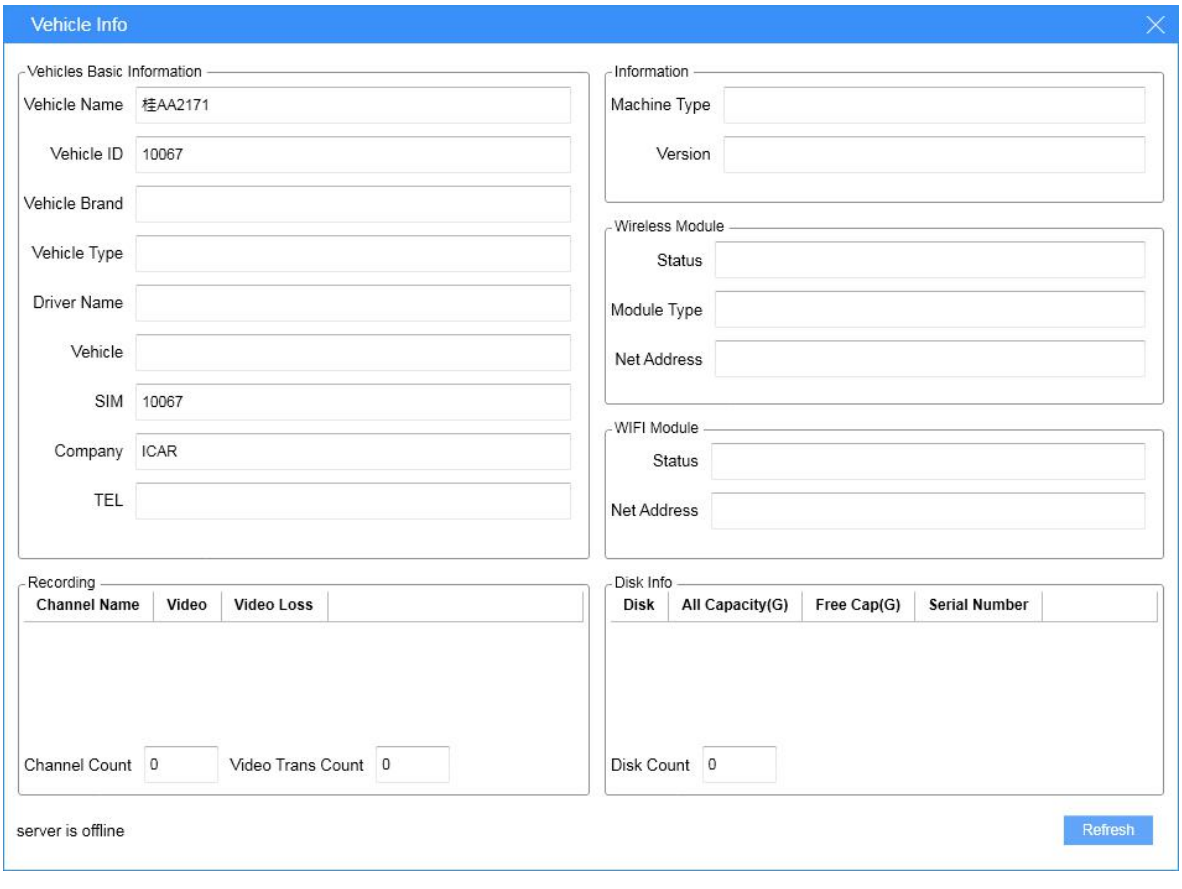
- ❖ Start intercom/monitor: Select these two options to listen to the selected vehicle or send a intercom request;
- ❖ Turn on all recordings: turn on all camera recordings of the vehicle;
- ❖ Restart the device: Restart the device remotely, and enter the device password during operation;
- ❖ Restore factory settings: remotely restore the factory settings, you need to enter the device password during operation;
- ❖ Mileage clear: Clear the mileage, you need to enter the device password during operation;
- ❖ GPS reporting interval: 0~3600s can be set, and the default reporting interval is 10s. (0 means not uploading GPS data)



- ❖ Parameter configuration: When configuring, the vehicle parameters are required to remotely configure the vehicle parameters through the 3G/4G wireless network.

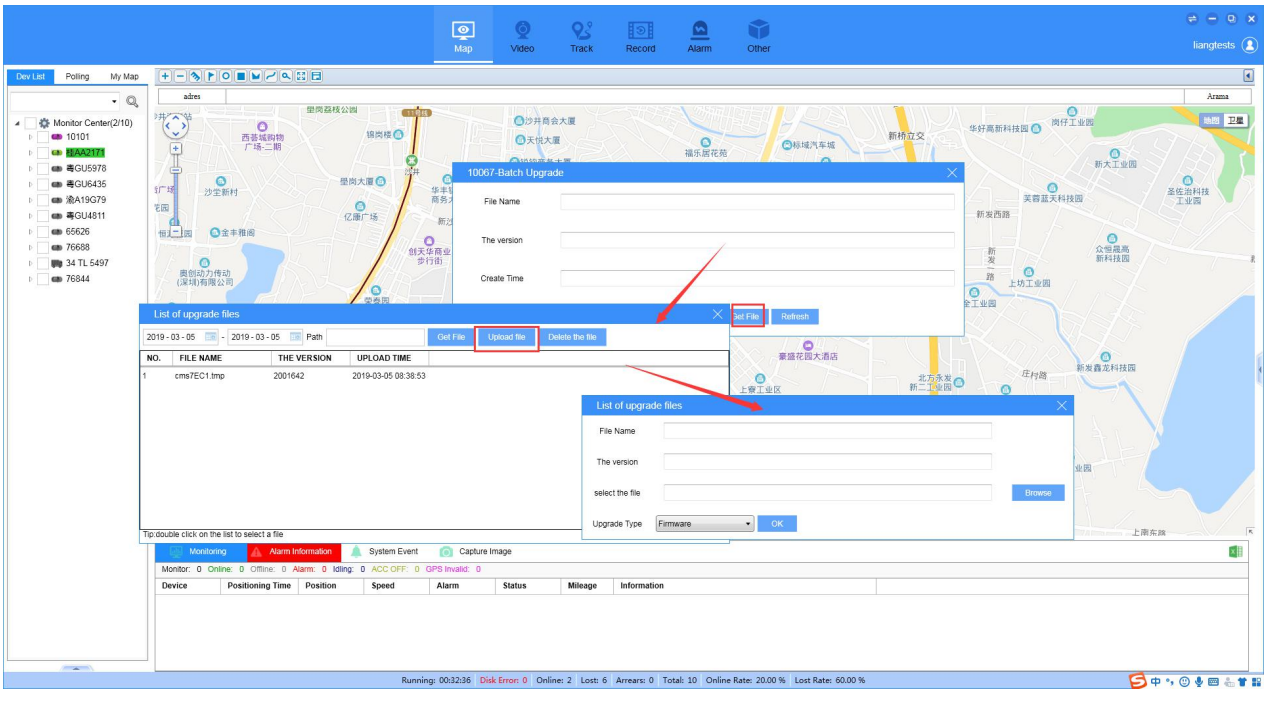


❖ Terminal information: You can view the information of the selected vehicle terminal.



❖ Batch upgrade：

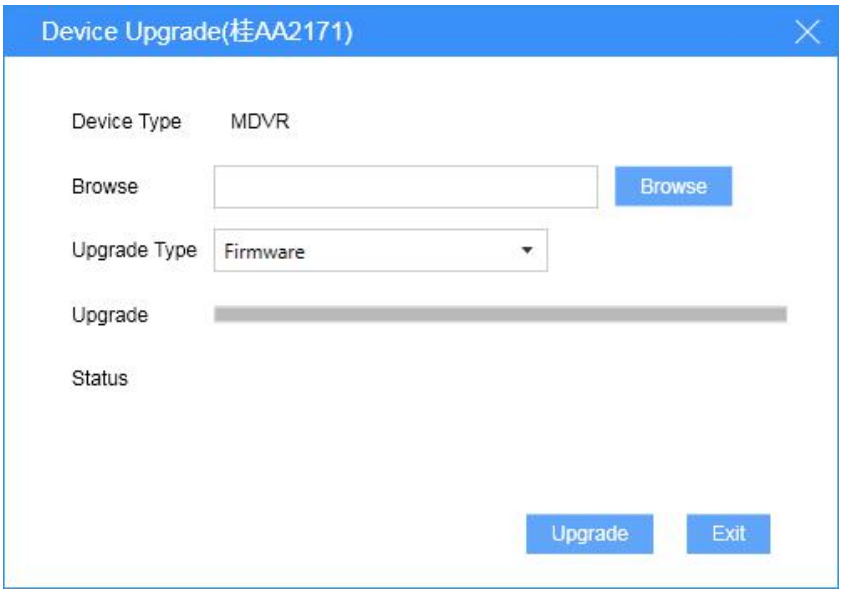
Click “Batch Upgrade”---“Get File” to select the required file to upgrade in the list of previously upgraded files, or click “Upload File” to select the .crc file to be upgraded for upgrade. After successfully selecting the file, click "Browse"---"Save to confirm the update.



❖ Equipment upgrade

Click "Device Upgrade"---"Browse" to select the device-side .crc software to be upgraded, and then click "Upgrade". Note: Please ensure that the device cannot be powered off during device upgrade.

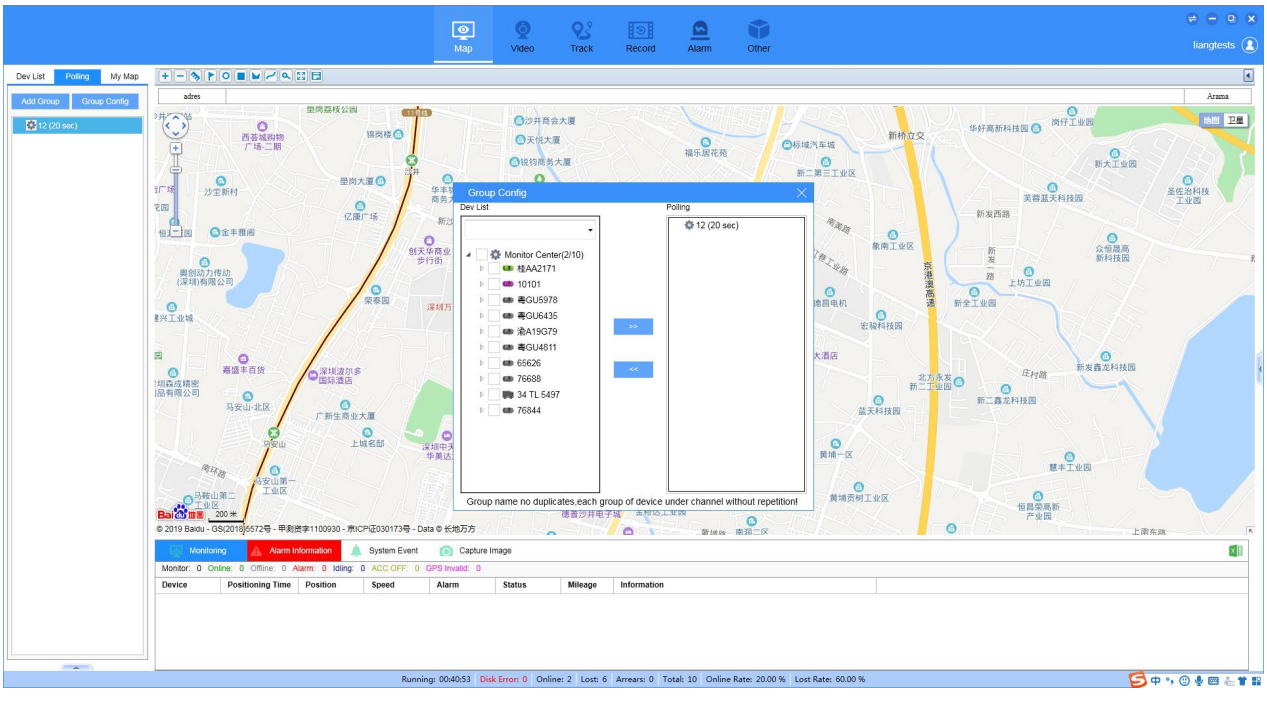
View the upgrade status after the upgrade.



2.2.2 Video polling

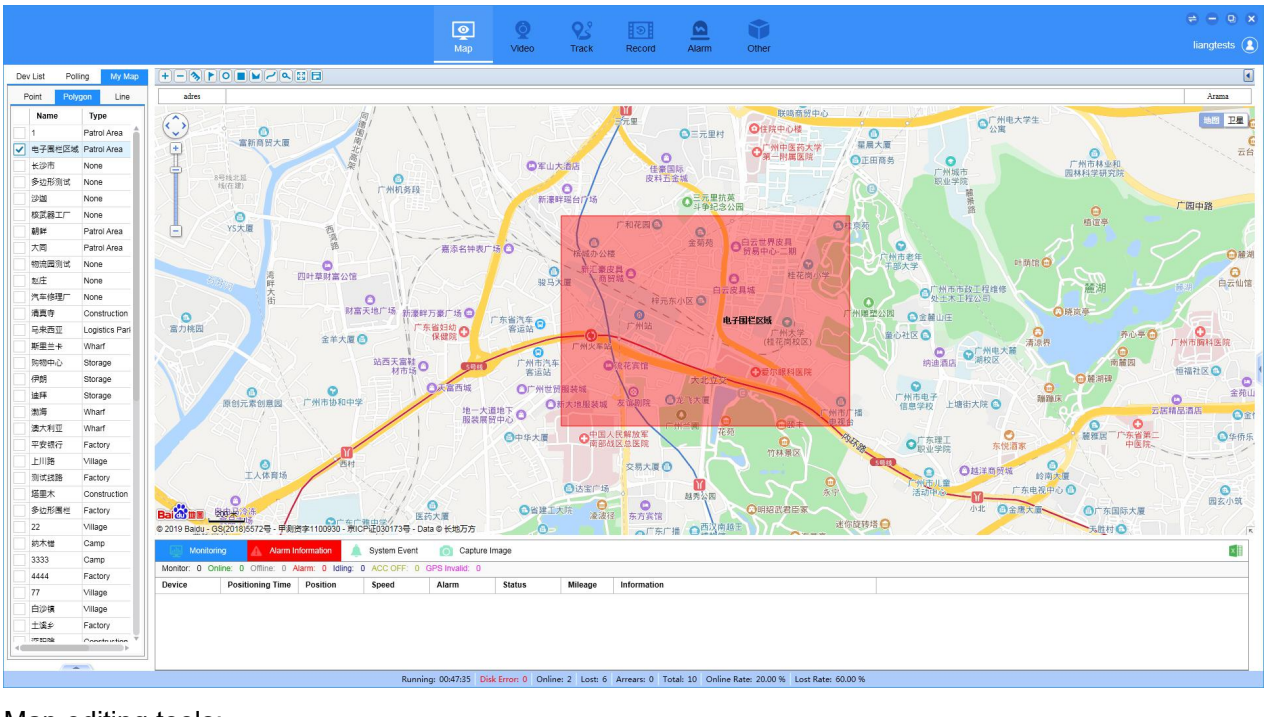
Click the Video Polling tab in the device list area, add a group and select "Group Configuration". Select the device and group name in the pop-up window to add a video polling group and then join the vehicle to the polling group. After the creation is completed, right-click on the corresponding group and

select “Start Polling” and start video polling playback. At the same time, you can select “Group Configuration” and edit the group in the pop-up window.



2.2.3 My map

In the GIS map area, you can add custom points, areas, lines, etc. through the map editing tool. Once completed, it will be automatically saved to my map list.



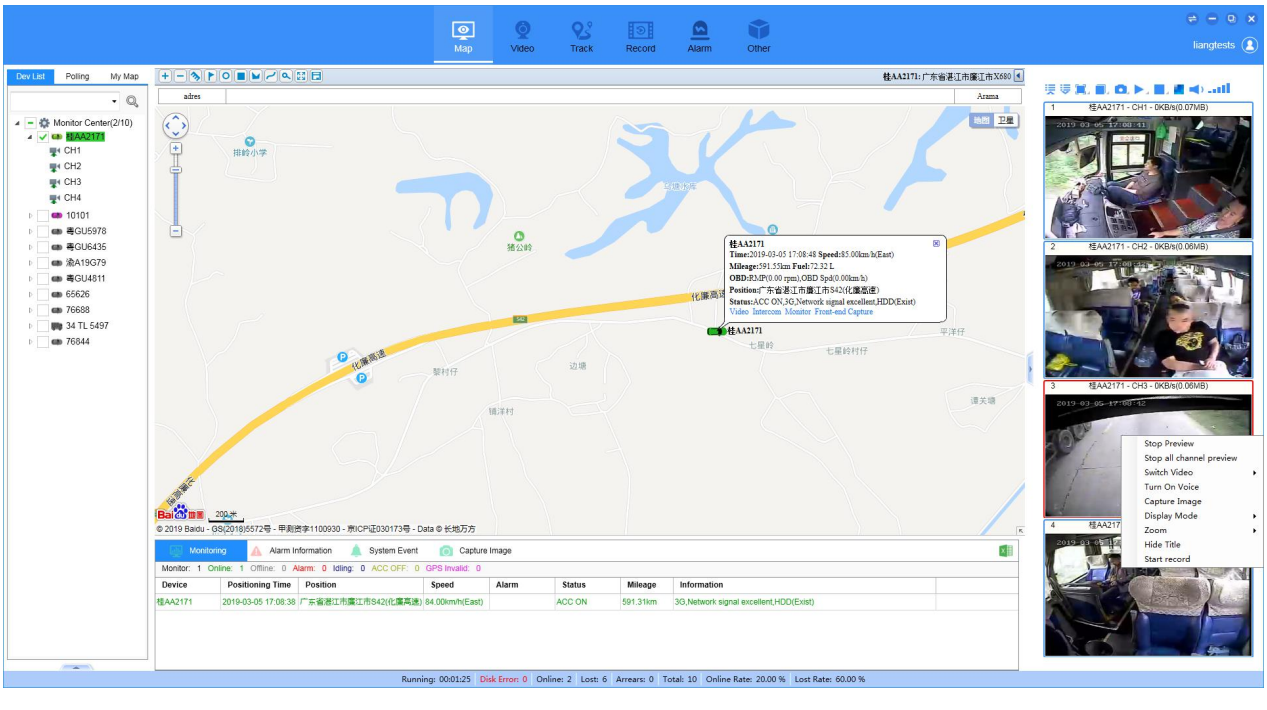
Map editing tools:

❖ Click "  " to zoom in or out on the map;

- Click "  " to measure the distance of the route on the map
- "  " to add a custom point
- Click "  " to add a circle, polygon, rectangular area
- Click "  " to add a line
- Click "  " and draw the specified rectangular area on the map, and you can query the vehicle details through the area.
- Click "  " to display full screen
- Click "  " to save the current map as the default map.

2.3. Video display area

The video display area is used to display real-time video. The video toolbar has been described in detail in Section 2.1.2 and will not be described here. Double-clicking on a channel in the device list will open the channel video, double-click the vehicle icon to open all channel video of the entire car.
Right-click on the video to perform related operations on the video screen.
Including: stop preview, stop all channel preview, turn on all channel preview, switch video, open sound, capture picture, display mode (good time, good fluency), display ratio (full screen display, 16:9 or 4:3) , hide title, start recording, screen effect setting, subtitle overlay, audio and video transmission control (turn off audio and video, turn off audio, turn off video, main/substream, pause, resume, stop two-way intercom).



2.4. PTZ and voice control area

The PTZ and voice control zones provide status, color adjustment, pan/tilt control, analog intercom, broadcast, monitoring and system settings.

❖ **Status:** View vehicle information for selected vehicles

❖ **PTZ：** Through this operation interface, the PTZ camera can be remotely adjusted for control. For example, the channel 2 of the device "Gui AA2171" is connected to the PTZ. At this time, the channel 2 video of the device " Gui AA2171" is viewed on the video window, and the video window is selected. At this time, the pan/tilt is operated, and the channel can be controlled.

❖ Click the “  ” icon to adjust the rotation of the gimbal by the direction indicated by the arrow (this function requires the support of the equipment and the pan/tilt);

❖ Click the “   ” icon to reduce or enlarge the distance of the video focal length;

❖ Click the “   ” icon to reduce or enlarge the video aperture size;

❖ Click the “   ” icon to adjust the video focus size backwards or forwards;

❖ Click the "  " icon to turn the video light on or off;

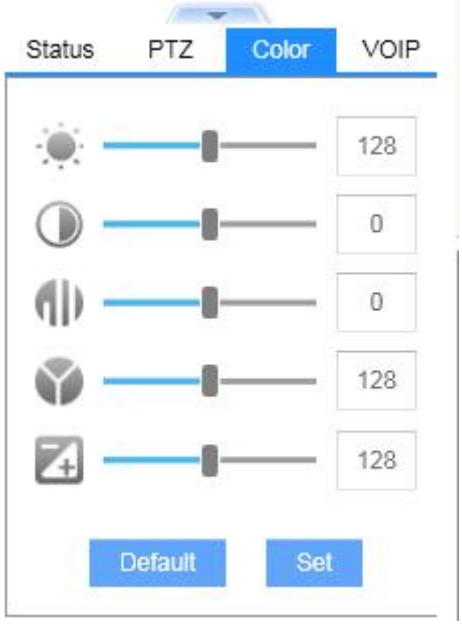
❖ Click the “  ” icon to turn the wiper of the recording on or off....

Call/Set/Delete: These operations are for preset settings, and up to 64 can be set in the interface.

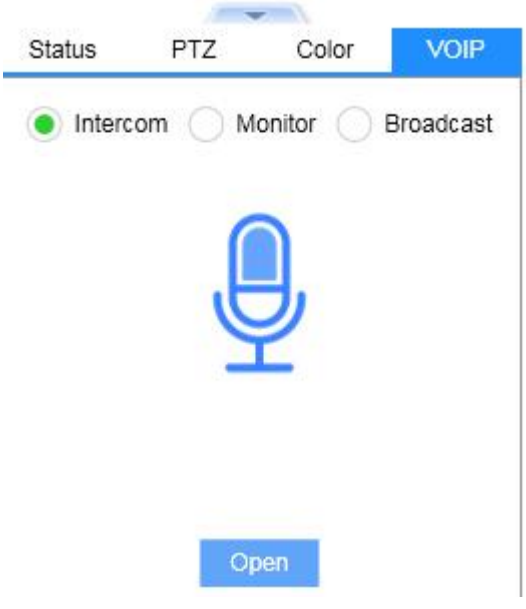
Note: 1. Set each preset point on different auto-routes separately, and then call each preset point separately to confirm whether the settings are set.

2. In the PTZ manual, find the command of auto-cruise. Generally, the command of automatic gimbal cruise is 98 or 95. Of course, the command of the gimbal produced by each manufacturer is different. Once you find the command, run it.

❖ Color: used to adjust the color, illumination, contrast and other parameters of the IVMS system software.



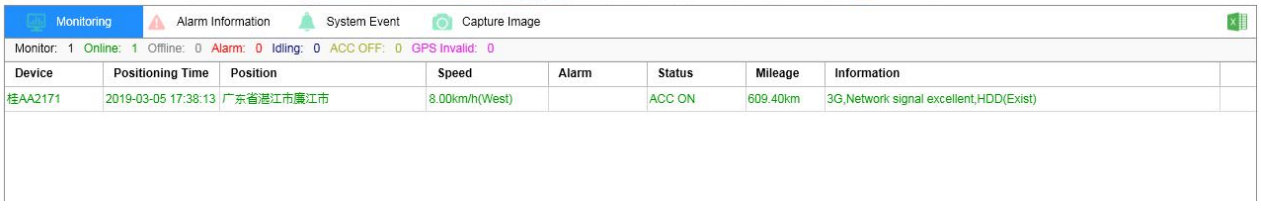
❖ Voice: It can initiate analog intercom, voice monitoring and broadcasting to the vehicle.



2.5 Monitoring status area

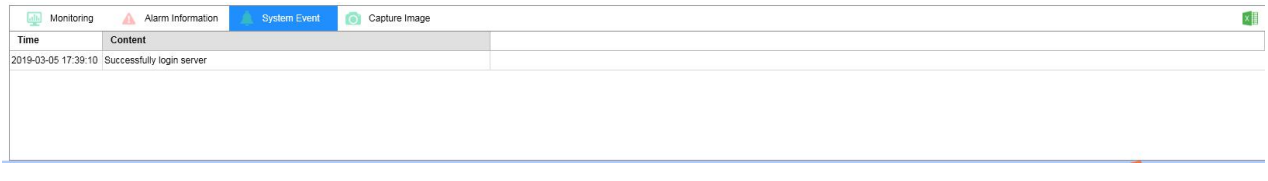
The monitoring status area contains four tabs for GPS monitoring, alarm information, system events and snap pictures.

- GPS monitoring: display information such as speed, geographic location, alarm, vehicle status, mileage, etc. of online vehicles. The color of the font represents the driving state of the vehicle and corresponds to the color of the vehicle in the device list.

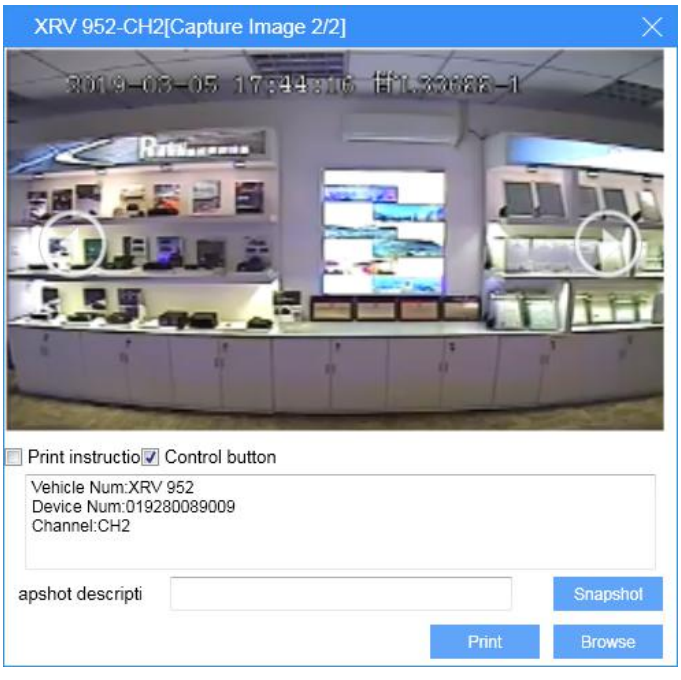


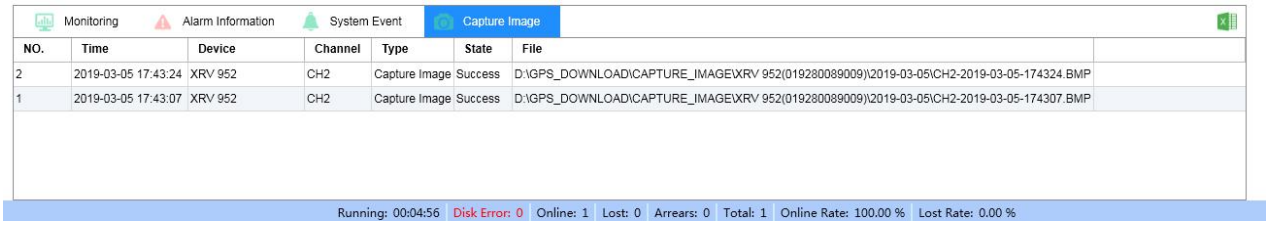
- Alarm information: The information display of the alarm vehicle, including the type and location of the alarm.

- System event: System event record.



- Capture picture: Local capture picture information (right click on the video screen)


XRV 952-CH2[Capture Image 2/2]
Print instructio
Control button
Vehicle Num:XRV 952
Device Num:019280089009
Channel:CH2
apshot descripti
Snapshot
Print
Browse


Monitoring
Alarm Information
System Event
Capture Image
NO. Time Device Channel Type State File
2 2019-03-05 17:43:24 XRV 952 CH2 Capture Image Success D:\GPS_DOWNLOAD\CAPTURE_IMAGE\XRV 952(019280089009)\2019-03-05\CH2-2019-03-05-174324.BMP
1 2019-03-05 17:43:07 XRV 952 CH2 Capture Image Success D:\GPS_DOWNLOAD\CAPTURE_IMAGE\XRV 952(019280089009)\2019-03-05\CH2-2019-03-05-174307.BMP
Running: 00:04:56
Disk Error: 0
Online: 1
Lost: 0
Arrears: 0
Total: 1
Online Rate: 100.00 %
Lost Rate: 0.00 %

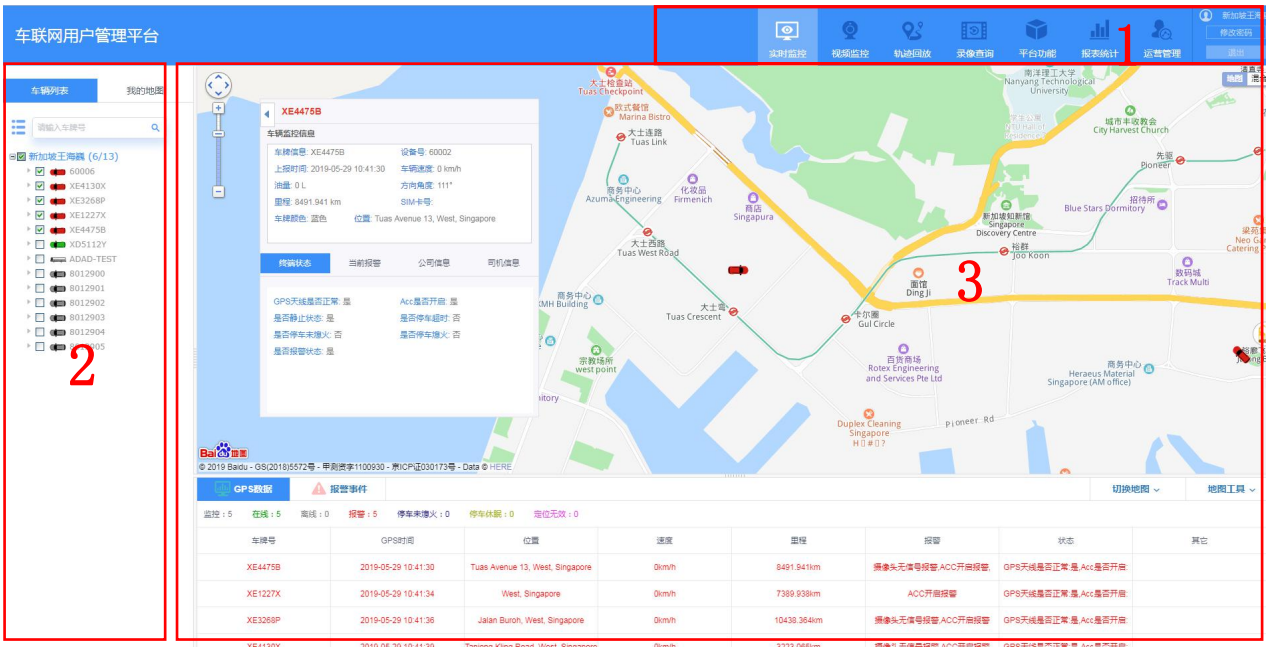
3. Web client function introduction

The main interface of the WEB client includes: menu toolbar, real-time monitoring area, device list, monitoring status area, and PTZ voice control area.

1. Menu Toolbar: The toolbar is located at the upper right. It is the main control area of the system. It is divided into the main column of the home page, real-time monitoring, video playback, track playback and so on.

2. Device list: contains list information of the device, my map. The records of points, faces, and areas marked by the user on the map can be saved in my map list.

3. Real-time monitoring area: View the location of the device and other information on the map, you can locate the specified vehicle in the center, and you can view the detailed information of the vehicle.



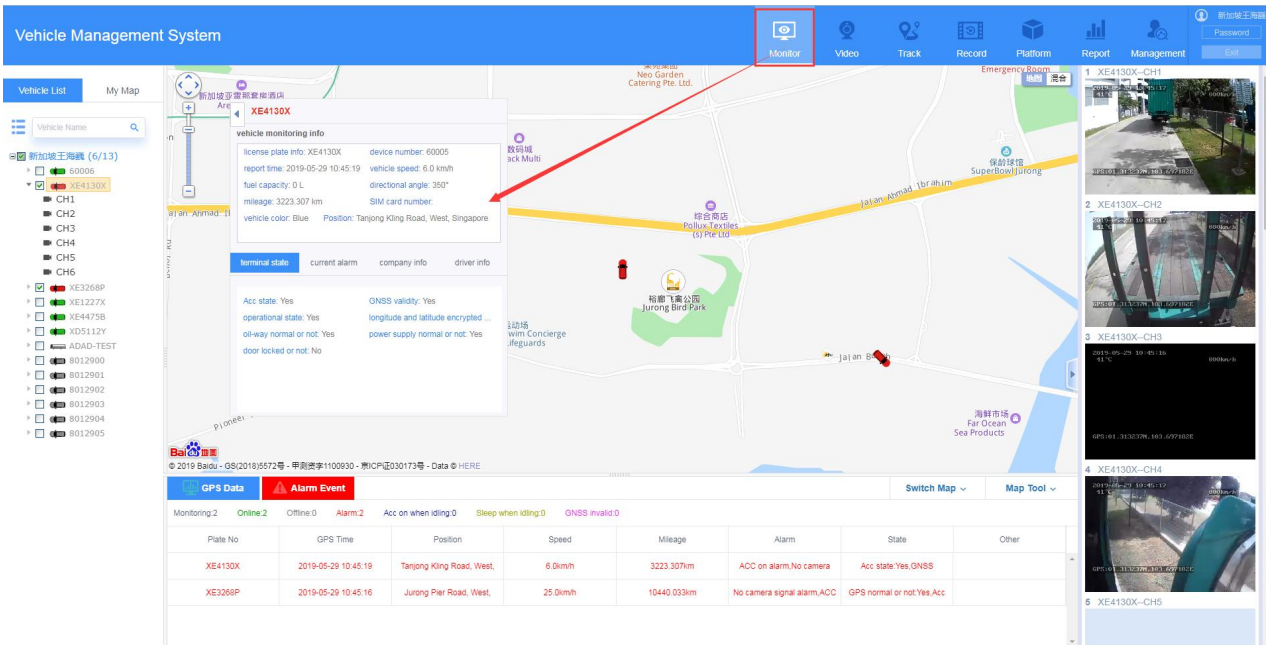
3.1. Menus and toolbars

3.1.1 Real-time monitoring

The electronic map view monitors the main display area as an electronic map, and the left and right are the device list and the video display area respectively.

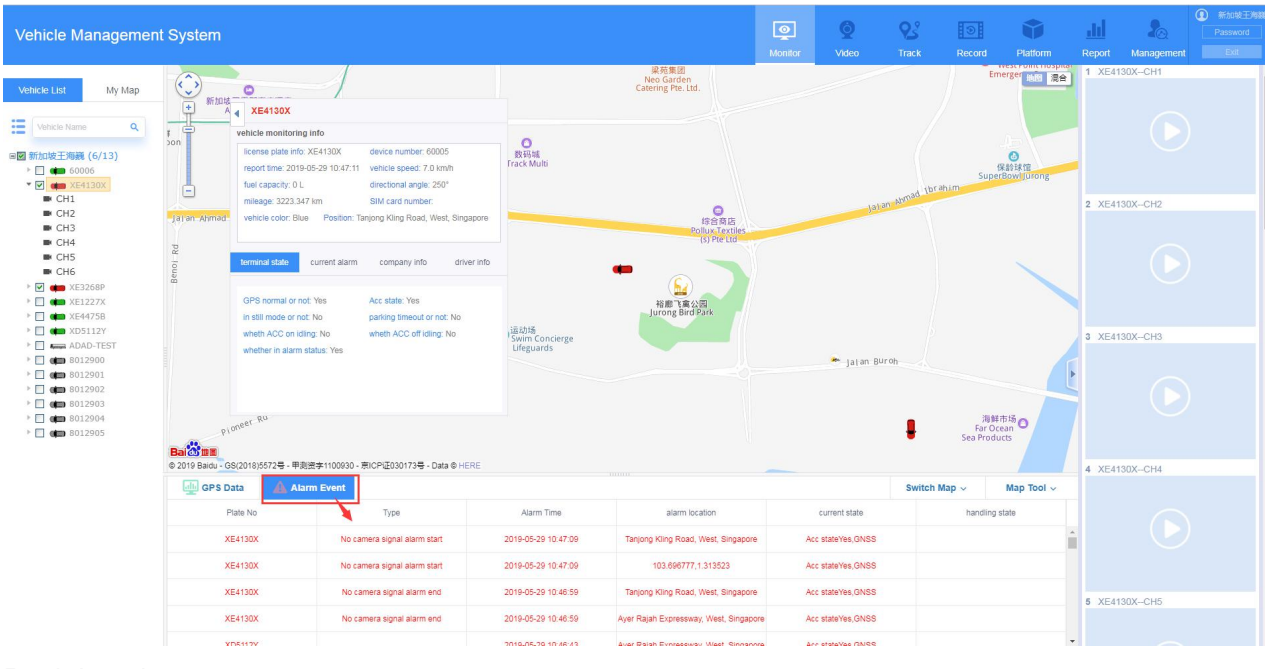
- ” Quickly switch map types, including Baidu map, Google map and Mapinfo map;
- Click "  "Switch between map and satellite map;
- Click "  "Can zoom in or out of the map.

Click on the vehicle name on the device list, the vehicle will be centered on the map, and you can see the basic information of the vehicle, including: license plate number, time, speed, mileage, location, status, and so on.



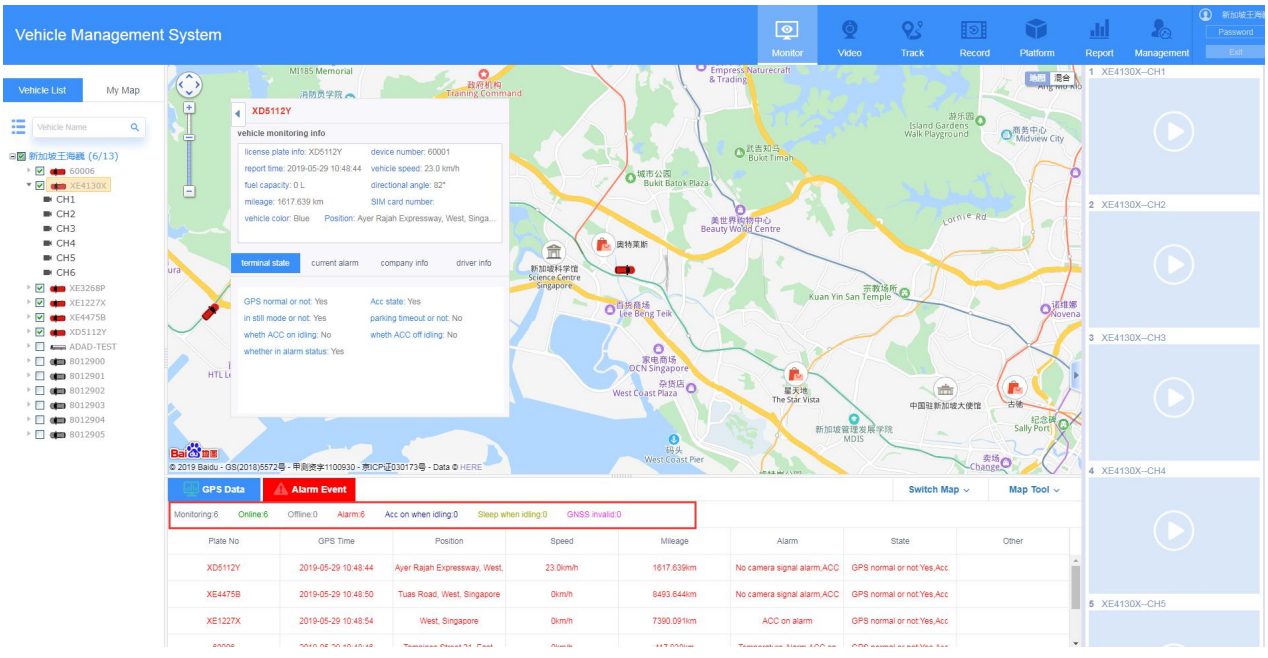
Real-time alarm:

Record real-time alarm data of online vehicles, including alarm type, alarm time, alarm description, alarm location, current status, and processing status.



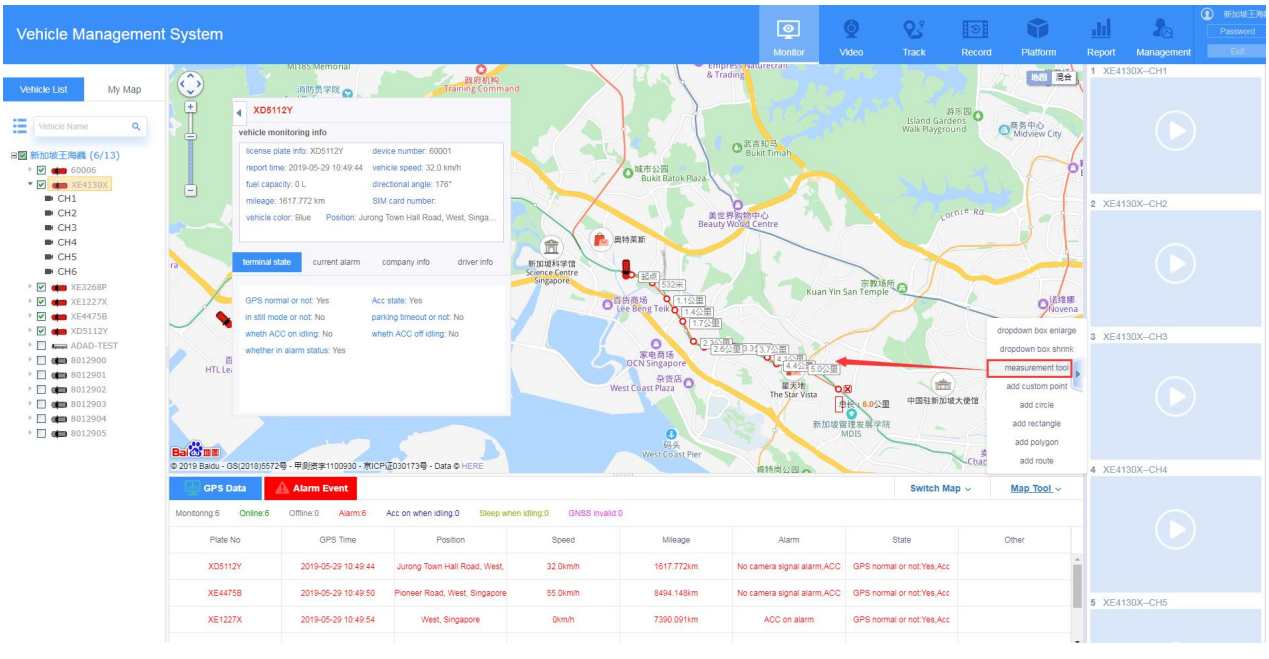
Real-time data:

Record real-time online data for online vehicles, including online quantities, offline quantities, online vehicle locations, and more.



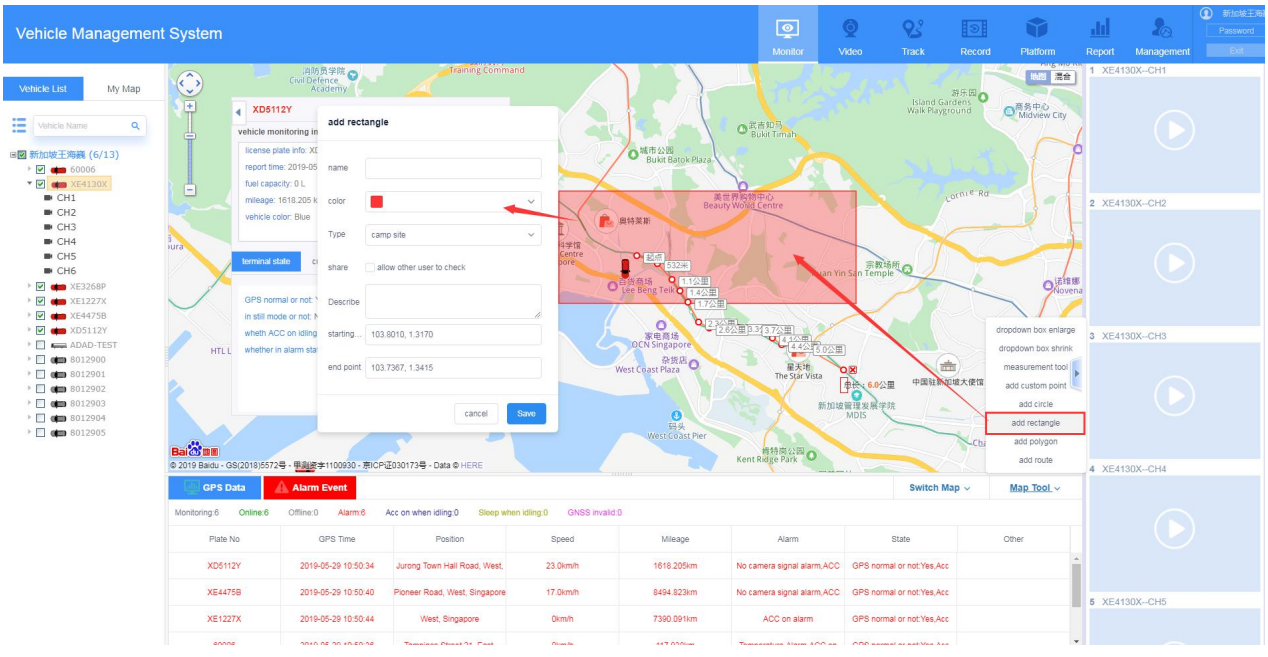
Map ranging function:

Click on the map to measure the distance, select the starting point and end point on the map, and click the right mouse button to confirm, you can measure the map distance of this mark.



Electronic fence function:

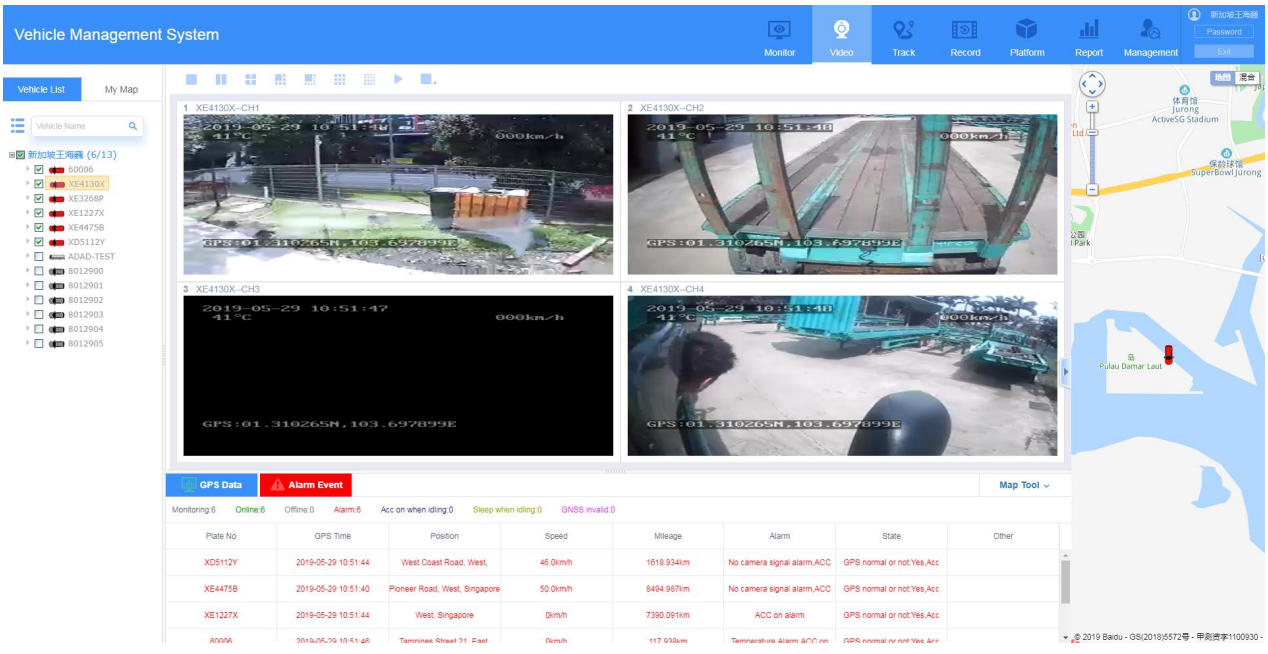
Set the electronic fence alarm area, when entering and leaving the interval, set a certain alarm data to prompt the alarm information;



3.1.2 Video Surveillance

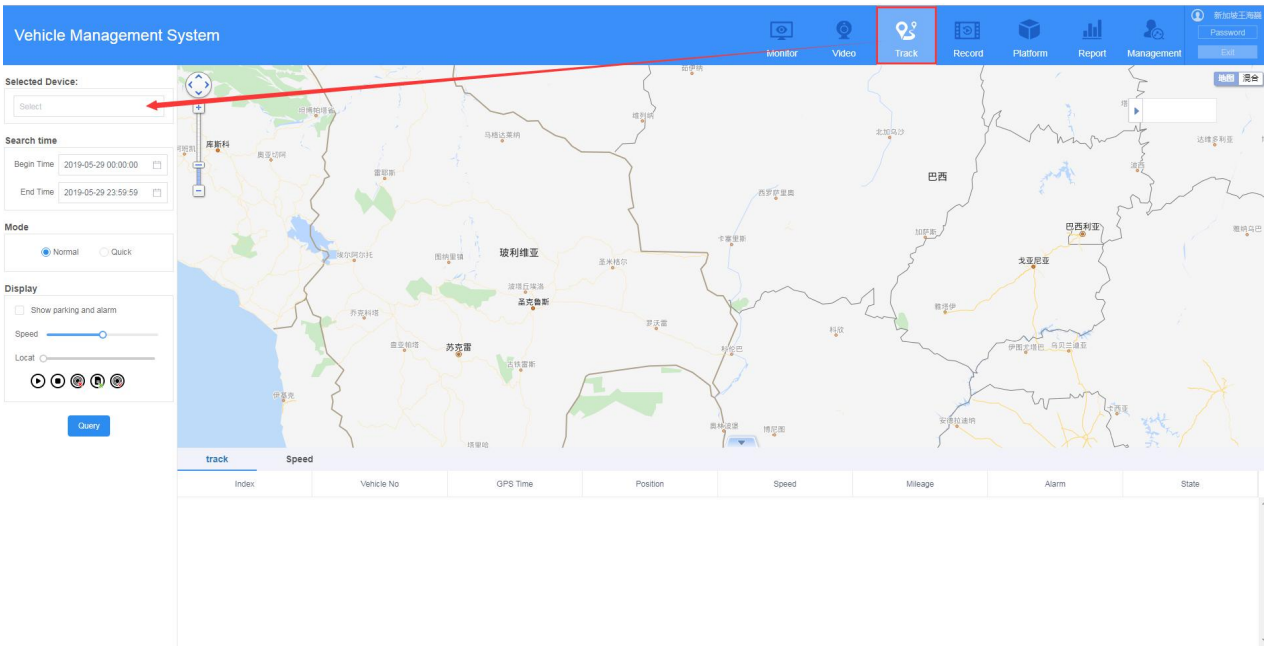
The real-time preview view monitors the main display area as the video display area, and the left and right are the device list and the electronic map. Double-click on the device list to remotely preview the surveillance video.

- ❖ Switch the number of video screen displays, optional 1/4/6/9/16/36, default 16 screens;
- ❖ Switch between the previous or next set of videos;
- ❖ Select the video display ratio;
- ❖ Can switch real-time or fluency;
- ❖ You can choose to capture pictures or capture the front end;
- ❖ Open the audio monitor (the front camera needs to have audio function, or another pickup)
- ❖ Open the video, pull down to turn on all videos or turn on the video;
- ❖ Stop the video, pull down to stop the video, stop all videos, clear the data, and clear all the data.
- ❖ Full screen display video preview monitoring.



3.1.3 Track playback

After switching to the track playback interface, as shown below. In the search terminal, select the terminal that needs to search for track playback, then set the time end that needs to be searched, click “Search” to complete the search of the track and automatically play back.



You can choose to start or pause the track playback;
You can choose to stop the track playback;
Option to delete GPS track data;
Optional to export GPS track data;
Optionally add the searched trajectory as a line;
You can choose to display a history list of the searched tracks.

3.1.4 Video playback

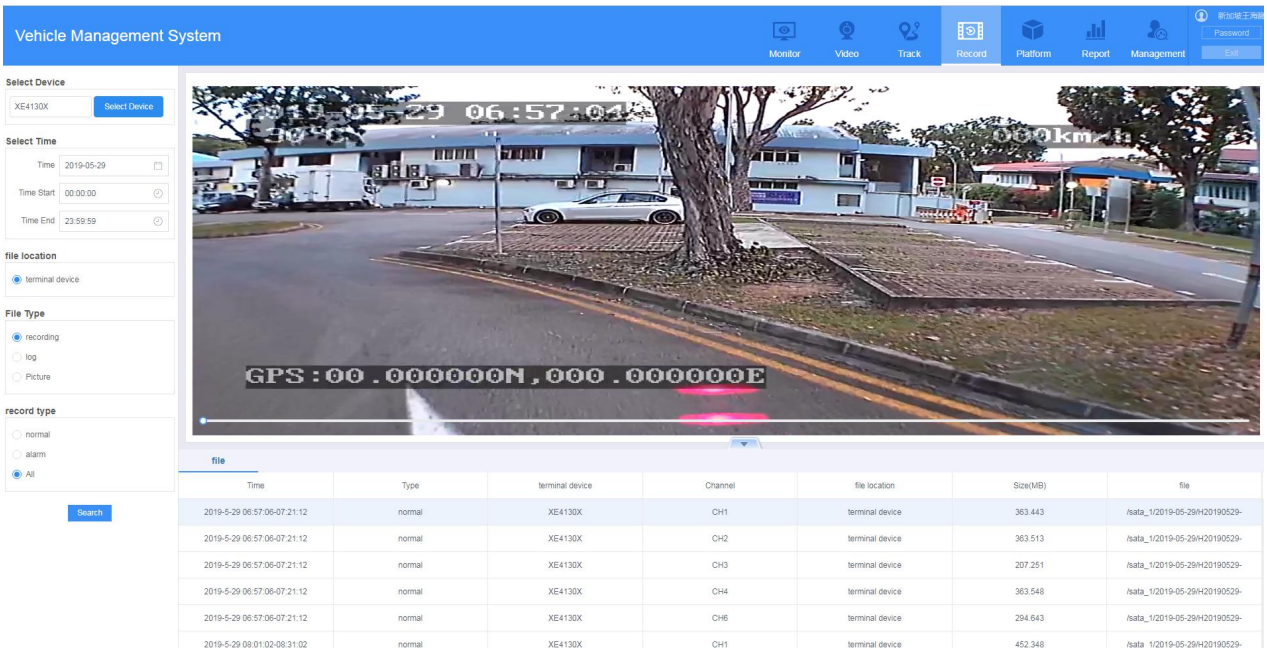
After switching to the video playback interface, as shown below. Select the terminal that needs to search for video playback in the search terminal, and then set the time end that needs to be searched. Click “Search” to complete the search of the recording file. The green area indicates that there is a

video during this time period. Double-click the file to play the video.

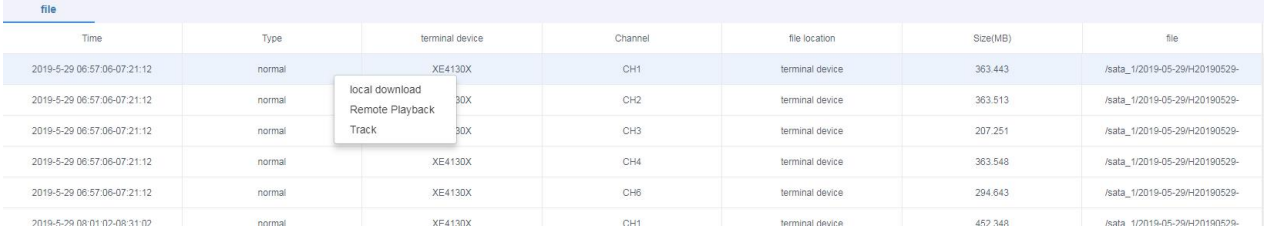
- ❖ File location: optional terminal device, local disk, storage server, download server
- ❖ File type: optional video and picture
- ❖ Recording type: optional regular recording, alarm recording and all recording.

Note: The video file of the video playback terminal device may have network delay and need to generate 3G/4G traffic charges. Please use it with caution!

Click on the played video file to stop playing the video;



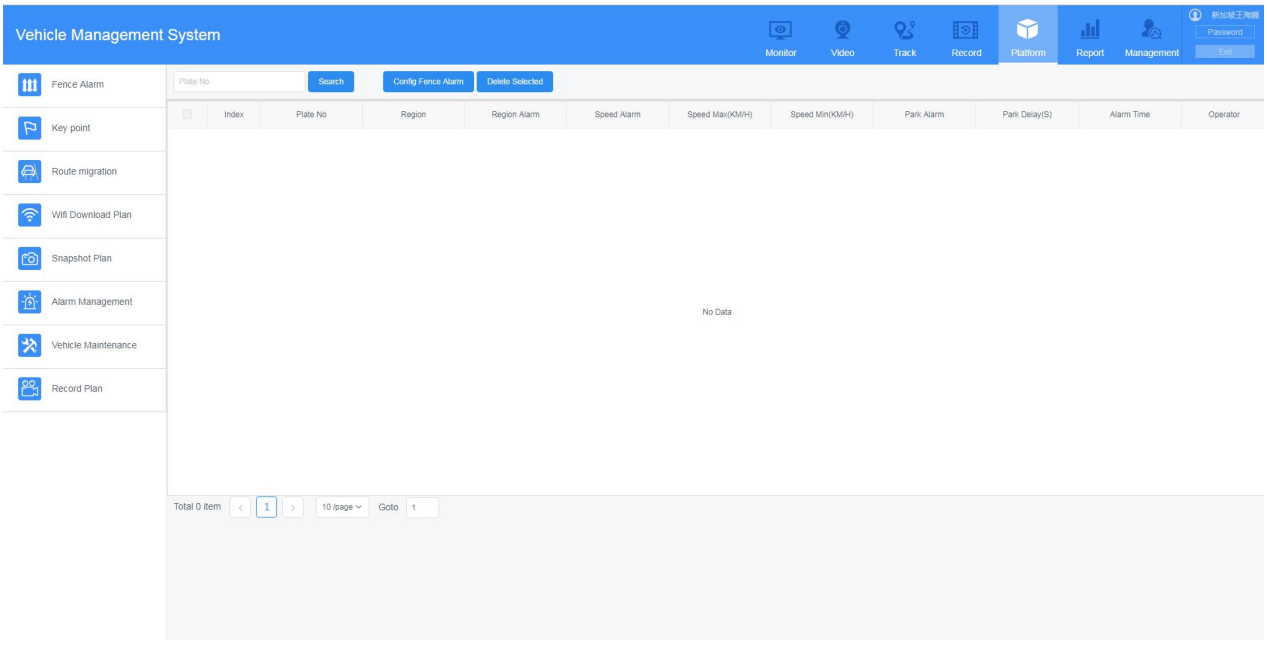
Right-click files to select local download (download video files to local), remote playback (playback video) and track playback (search for the track of the video)



Click the "Download" option to display the status of the download of the video file. The right-click file can be opened to open the file storage folder. Select Stop download to terminate the file being downloaded, delete the file, and change the file download storage path.

3.1.5 platform System Configuration

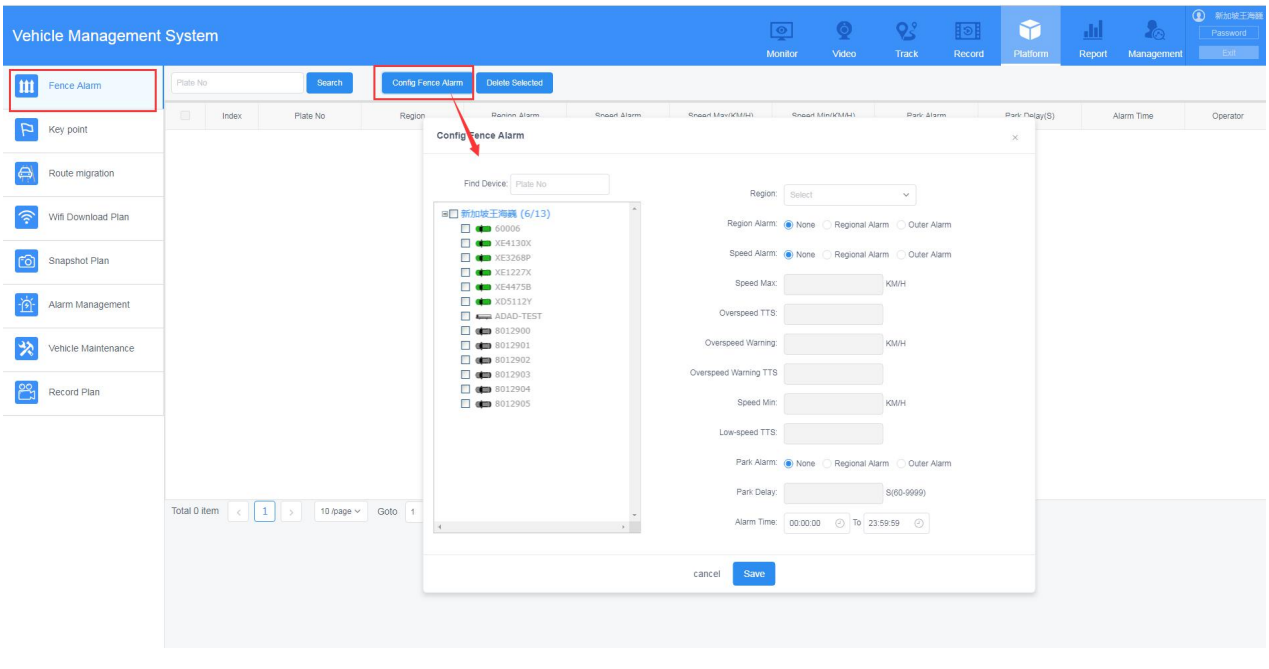
This section mainly includes the setting of related parameters such as fence alarm, key point, route offset, WIFI download plan, snapshot plan, alarm linkage, maintenance management, and recording plan.



3.1.5.1 Fence alarm

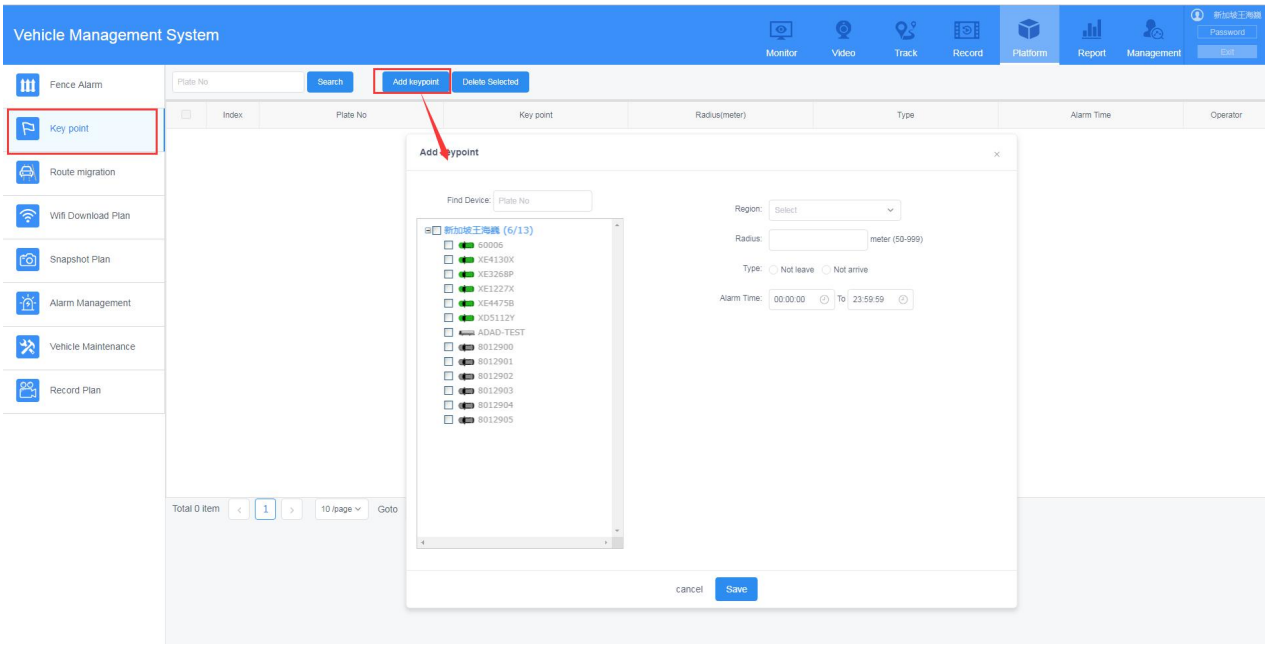
Click “Configure Fence Alarm” to pop up the fence alarm parameter setting box. Here we can set the parameters of the zone (speed) alarm, super (low) speed TTS prompt, parking delay, arming time and so on.

Steps: Select the vehicle, then select the fence to make the relevant configuration. After the configuration is completed, after the vehicle generates an alarm, the client will display the corresponding alarm information. If the overspeed or low-speed TTS voice prompt is configured, the TTS voice will be automatically sent to the device when the alarm is generated.



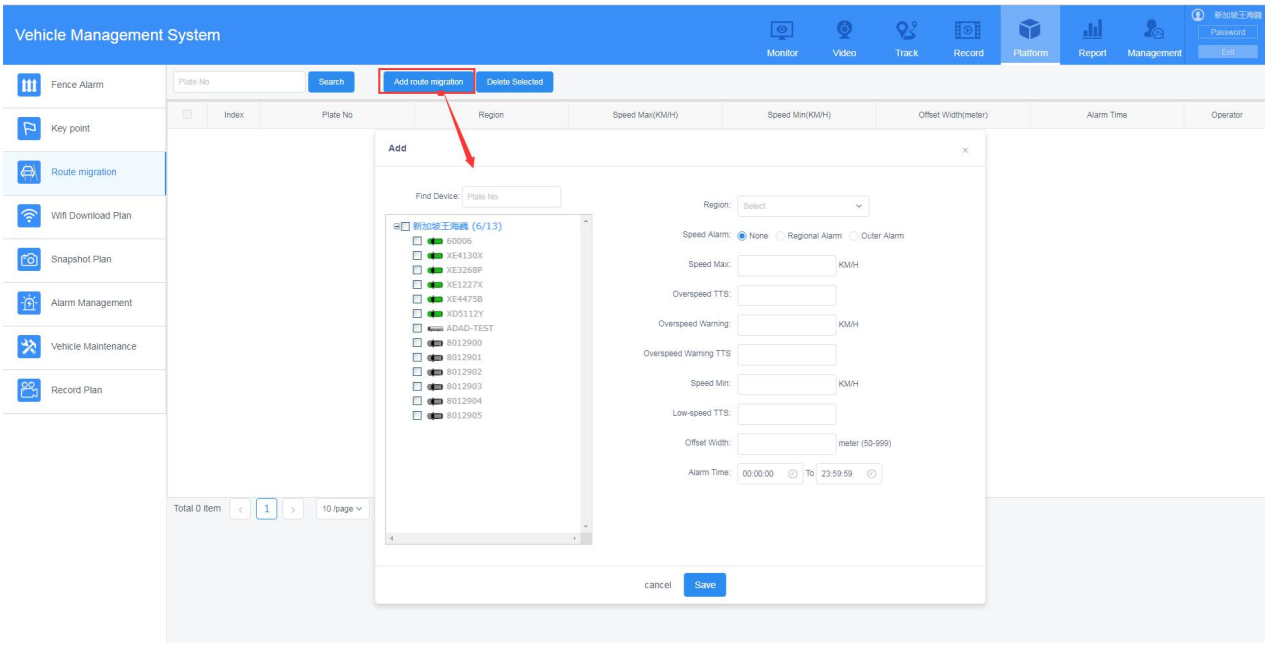
3.1.5.2 key points

Key point setting type: not leaving the setting area, not reaching the setting area, etc.
The radius area can be set according to the key point, and the time range is set to set the key points on the map;
Note: you need to add a point on the map.



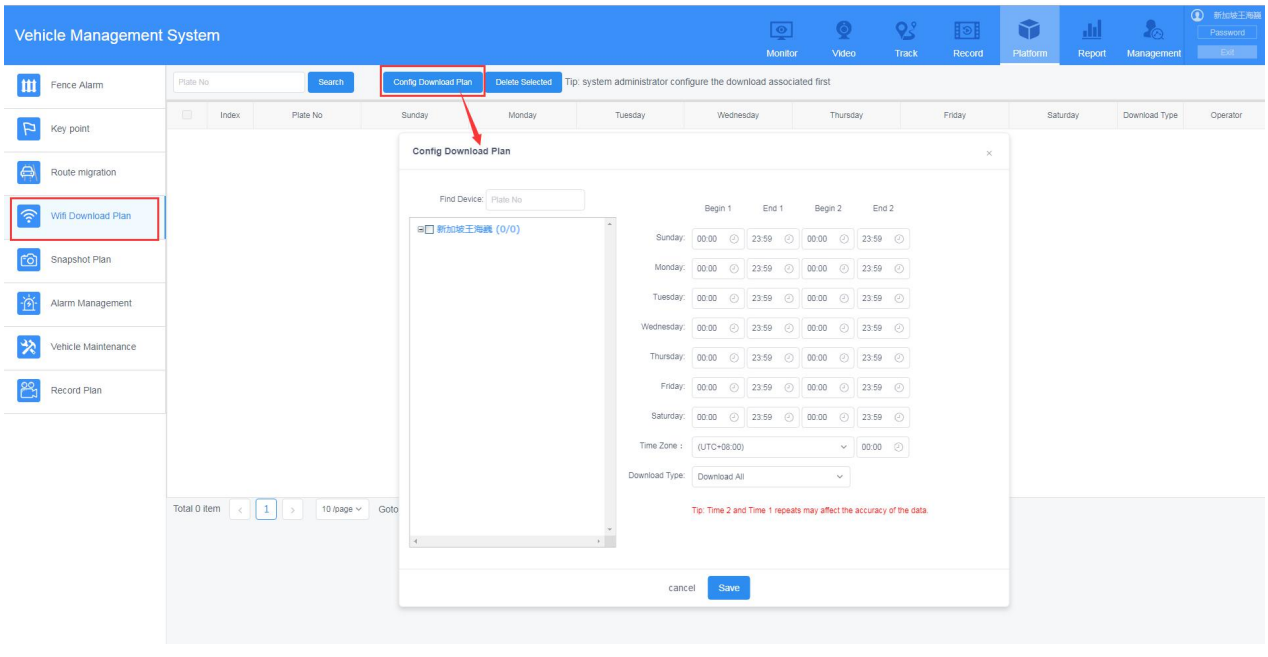
3.1.5.3 Route offset configuration

Configure route offset settings: including setting specified area, speed alarm, maximum speed, TTS prompt, overspeed warning, TTS warning, minimum speed, low speed TTS prompt, offset width, deployment time, etc.
Note: You need to add a line to the map.



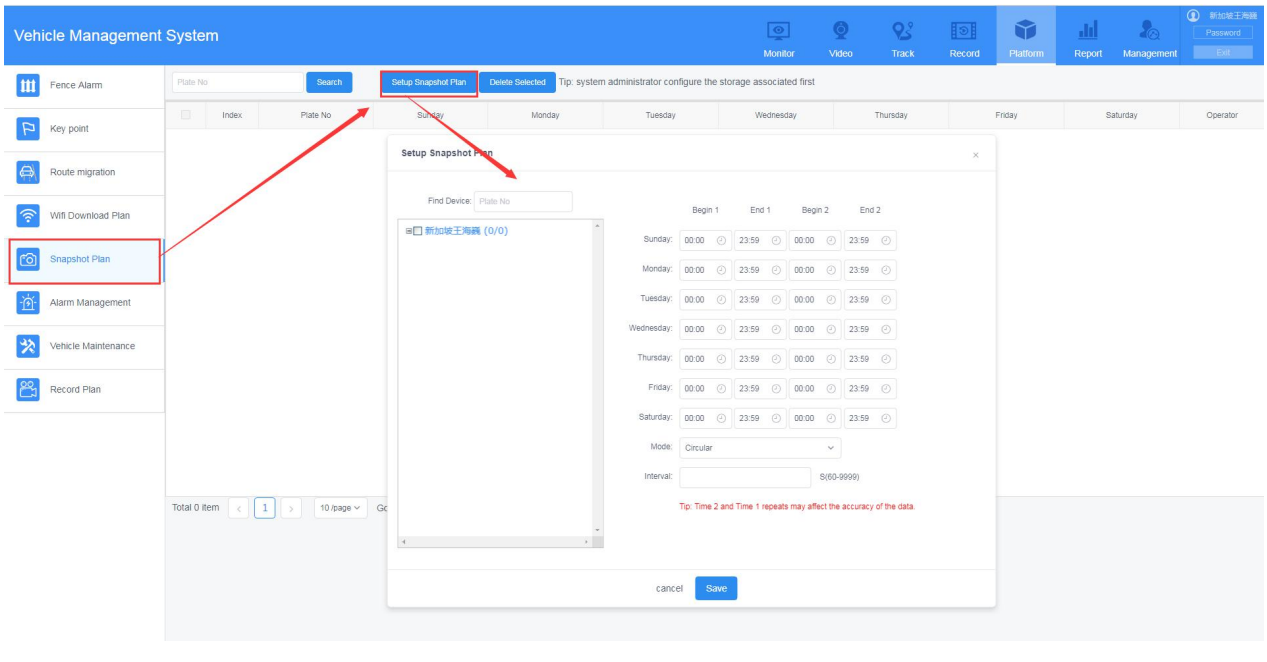
3.1.5.4 WIFI download plan

WIFI automatic download function: set the download schedule, time, select the terminal device; when the vehicle enters the WIFI coverage field, the video file on the terminal will be automatically uploaded to the server;



3.1.5.5 Capture plan

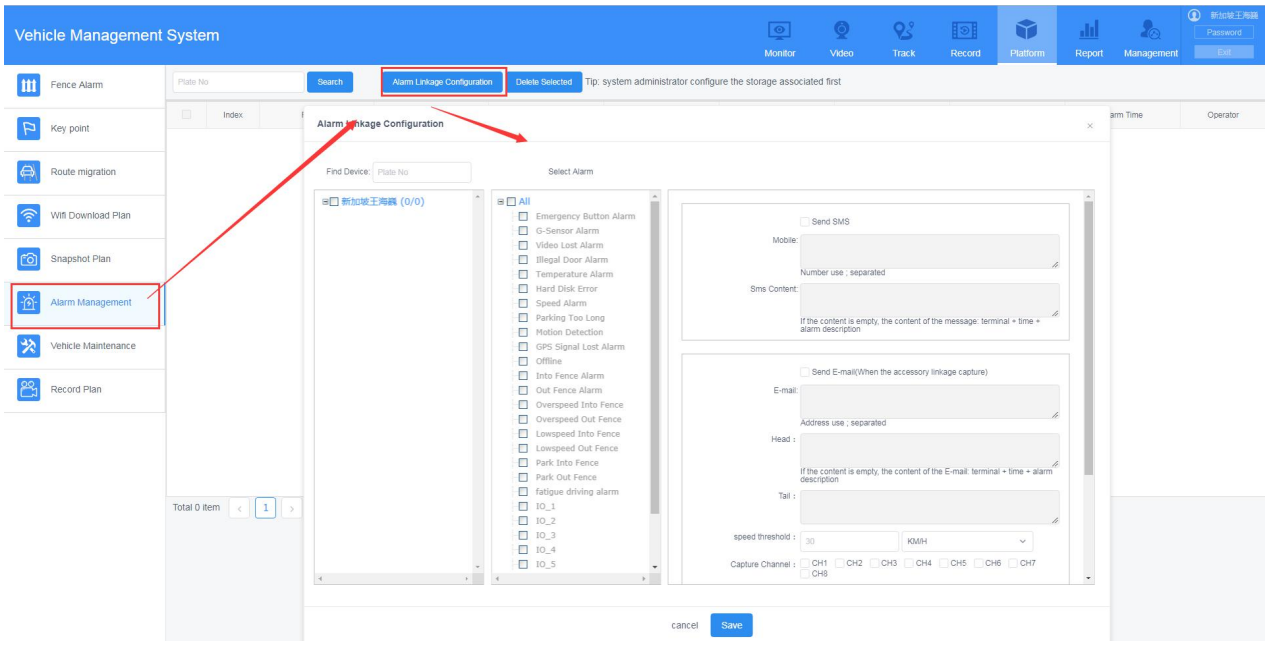
Capture plan Configure the capture plan function: set the capture plan, time, select the terminal device; the file captured by the terminal during this time period will be automatically uploaded to the server;



3.1.5.6 Alarm management

Click “Alarm management Configuration” to pop up the corresponding setting box. In the pop-up box, select the (vehicle) terminal number (Note: multiple choices) and the alarm type (Note: multiple choices), the user can choose SMS or email. When the alarm type in the setting occurs, the system will

send a text message or email to the user's mobile phone or mailbox for notification.



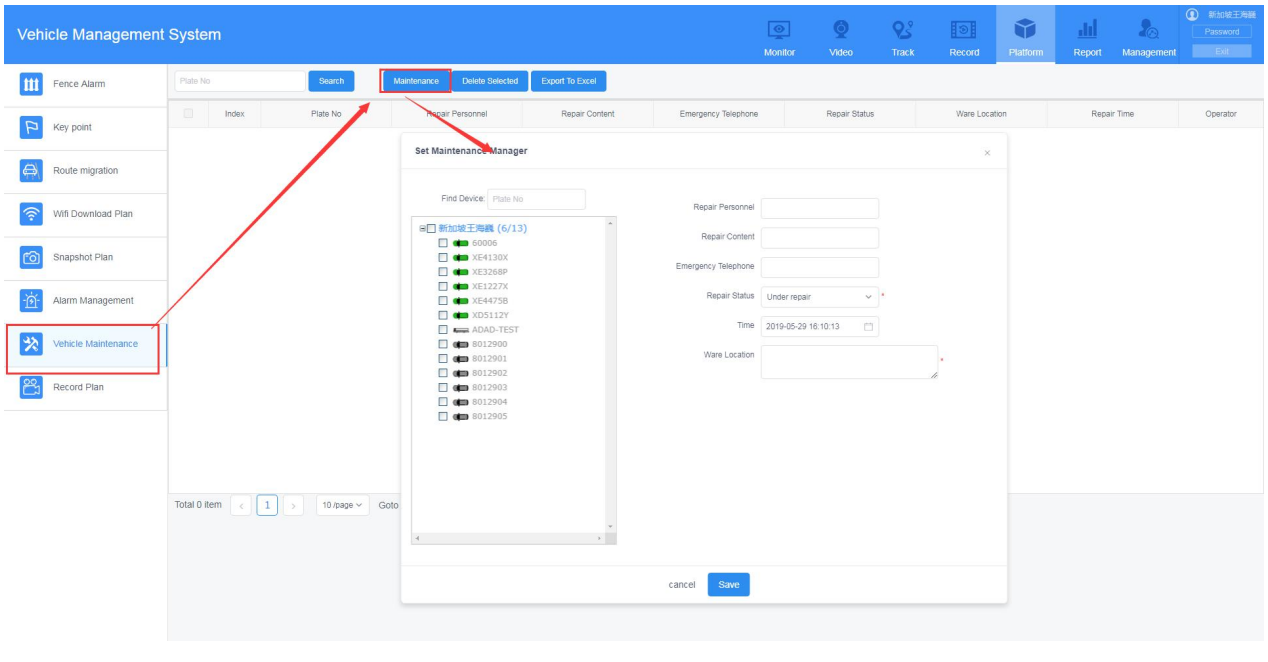
(Note: The implementation of this feature requires SMS and mail configuration on the server)

SMS configuration

When sending a text message, you need to connect the SMS modem to the server, and you need to install the serial port driver. Then, in this configuration, select the corresponding serial port number and click “Configure”. If you don't connect to the SMS cat, you can't send a text message.

3.1.5.7 Maintenance Management

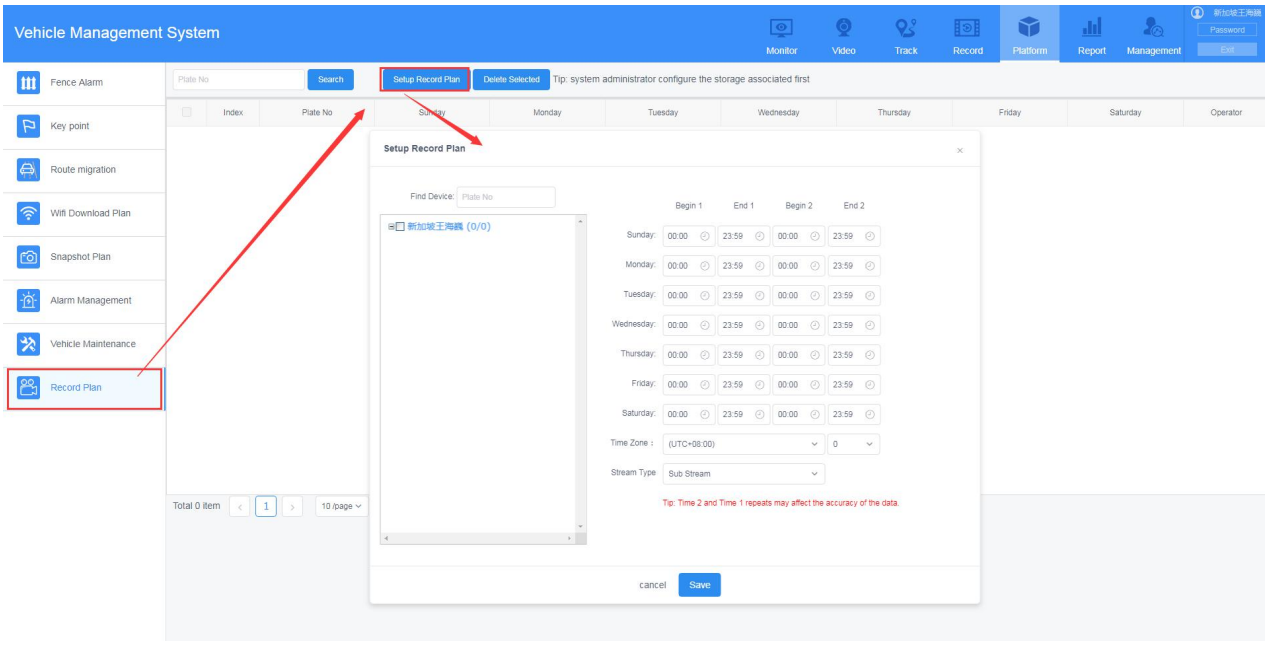
Maintenance management function: Record each maintenance record of the vehicle terminal. Including maintenance personnel, maintenance content, telephone, etc.;



3.1.5.8 Recording plan

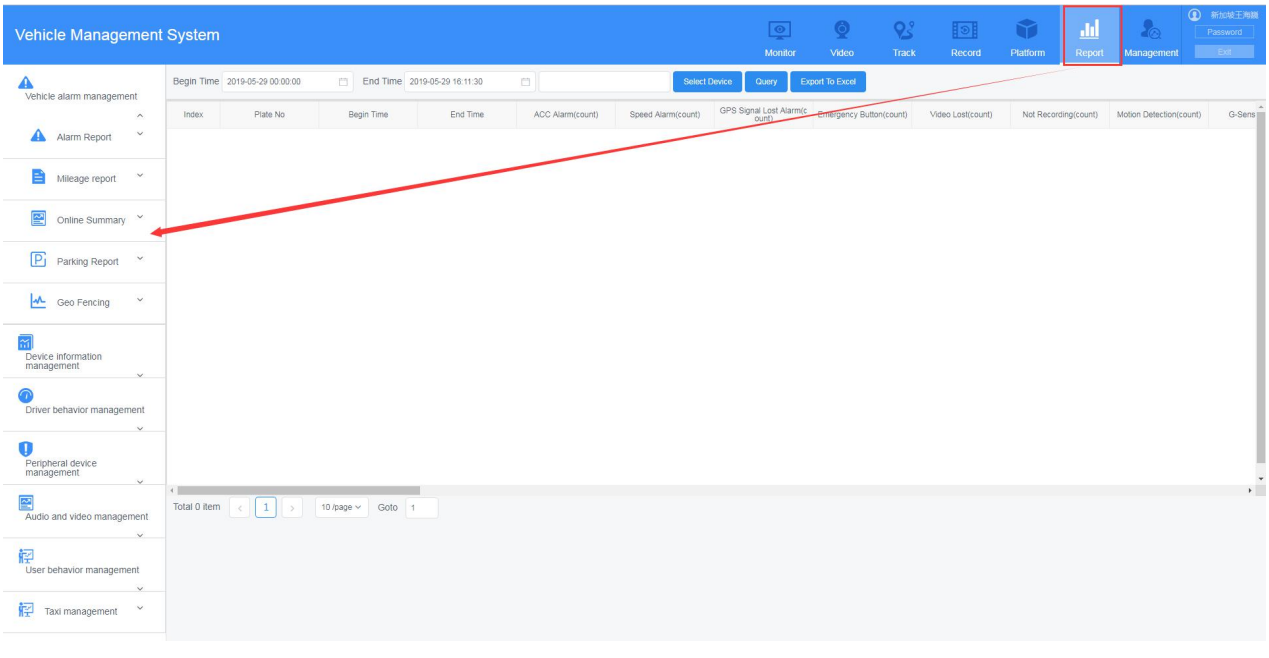
Configure the recording plan function: set the recording schedule, time, and select the terminal device;

the terminal will automatically upload the video file to the server during this time period;



3.1.6 Report Statistics

Report statistics: common reports (mileage summary report, mileage daily report, driving track detail report), speed report, online and offline report, IO input alarm report, driver behavior analysis, temperature report, alarm report, storage media report, equipment upgrade report, Oil quantity report, parking report, electronic fence, dispatch report, etc.



- The query time span setting should not exceed 7 days, otherwise the system will pop up a “ The scope of the search time is not more than 7 days! ” prompt.
- Vehicles need to install the corresponding equipment and make relevant settings to query the report. For example, the oil quantity report needs to install the oil quantity sensor, and set the alarm parameters. After the alarm is triggered, it can be queried.

3.1.6.1 Common reports

Commonly used reports include mileage summary reports, mileage day reports, and travel schedules

- Mileage summary report: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report;
- Mileage day report: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report;

The report can be exported to Excel format after the query is completed.

3.1.6.2 Speed Report

Speed report includes speeding summary table, speeding schedule and driving speed analysis

- Speedup summary table: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report;
- Speeding schedule: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”
- Driving speed analysis: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report; after completing the query, you can export the report to Excel format.

3.1.6.3 On-line report

The online and offline reports include the upper and lower line rate report, the upper and lower line summary table, and the upper and lower line schedules.

- Up and Down Rate Report: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”
- Up and down line summary table: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”
- Up and down line schedule: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report; after completing the query, you can export the report to Excel format.

3.1.6.4 Driver Attendance Report

The driver attendance report includes driver attendance statistics and driver attendance schedules.

- Driver attendance statistics: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”
- Driver attendance schedule: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”
  You can find the report; after completing the query, you can export the report to Excel format.

3.1.6.5 I/O Input Alarm Report

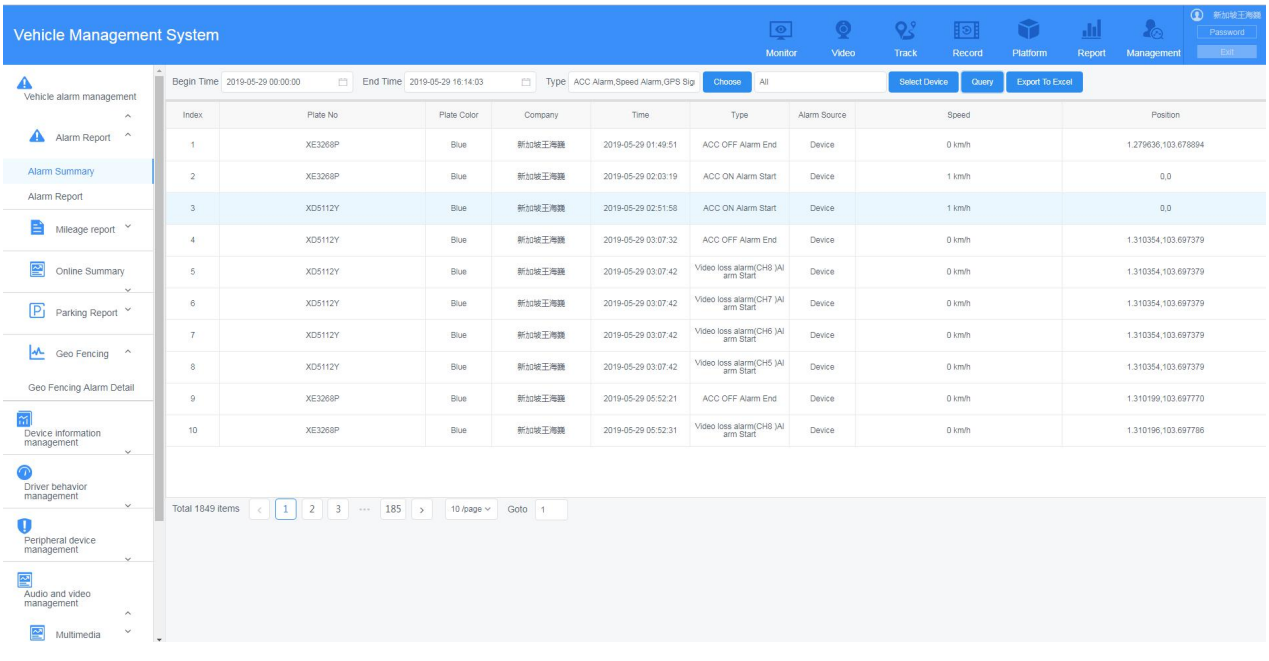
The IO Input Alarm Report contains an IO Input Alarm Summary Table and an IO Input Alarm Schedule.

- ❖ IO input alarm summary table: Select the search time, click to select the terminal, check the vehicle to be queried, press save to confirm, click “Query” to check the report;
- ❖ IO input alarm schedule: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report; after completing the query, you can export the report to Excel format.

3.1.6.6 Alarm report

The alarm report provides a report that can provide all the alarm information of the vehicle, including alarm summary table, ACC alarm schedule, GPS signal loss alarm, emergency button alarm detail report, illegal door opening alarm schedule, video loss list, G-senor alarm schedule. Wait.

First, select the type of alarm you need to query; then select the search time, click to select the terminal, check the vehicle you want to query, process the situation, the source of the alarm, click “Query” to check the report; after completing the query, you can export the report to Excel. format. The following is an example of querying the alarm summary table to introduce the alarm report query method.



3.1.6.7 Passenger statistics

The passenger flow statistics report includes the passenger flow statistics table and the passenger flow query.

- ❖ Passenger flow statistics: Select the search time, click to select the terminal, check the vehicle to be queried, press Save to confirm, click “Query” to check the report, and query the number of people getting on and off at each site;
- ❖ Passenger traffic inquiry: Select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query”Statistics such as passenger capacity can be counted.

You can find the report; after completing the query, you can export the report to Excel format.

3.1.6.8 Storage media report

The storage media report contains a hard disk error alarm schedule, a hard disk over temperature alarm schedule, and a hard disk status information schedule.

Select the type of alarm you need to query; then select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report;

The report can be exported to Excel format after the query is completed.

3.1.6.9 Device upgrade report

The device upgrade report includes the vehicle version list, the device offline upgrade record report, the parameter configuration report, and the vehicle MCU report.

Select the type of alarm you need to query; then select the search time, click to select the terminal, check the vehicle you want to query, press Save to confirm, click “Query” to check the report;

The report can be exported to Excel format after the query is completed.

3.1.6.10 Oil quantity report

The oil quantity report includes the fuel quantity dynamic schedule, the oil quantity abnormality list, and the oil quantity daily statistics table.

Select the type of alarm you need to query; then select the search time, click to select the terminal (you can only query the fuel quantity report of one car at a time), click “Query” to check the report;

The report can be exported to Excel format after the query is completed.

Note: To generate the fuel quantity report, the vehicle needs an external fuel quantity sensor and set the corresponding parameters.

3.1.6.11 Parking report

The parking report includes a parking summary table, a parking schedule, a parking non-extinguishing summary table, and a parking non-extinguished schedule.

Select the type of alarm you want to query; then select the search time, click to select the terminal, check the vehicle you want to query and click “Save”, and finally click “Query” to check the report.

The report can be exported to Excel format after the query is completed.

(Note: After clicking the query, if there is no corresponding alarm record, it will display “No data”)

3.1.6.12 electric fence

The electronic fence report contains the fence alarm details, which can be used to query the alarm generated by the vehicle in and out of the set electronic fence.

Select the type of alarm and area to be queried; then select the search time, click to select the terminal, check the vehicle you want to query and click “Save”, and finally click “Query” to check the report.

The report can be exported to Excel format after the query is completed.

(Note: After clicking the query, if there is no corresponding alarm record, it will display “No data”)

3.1.6.13 Peripheral report

At present, the peripheral report only has the tire pressure sensor list, and different peripherals will be added later. The tire pressure alarm includes: data leakage information such as air leakage, tire pressure, etc.

Select the completion of the required query; then select the search time, click on the selection terminal, check the vehicle you want to query and click "Save", and finally click "Query" to check the

report.

The report can be exported to Excel format after the query is completed.

(Note: After clicking the query, if there is no corresponding alarm record, it will display “No data”)

3.1.6.13 multimedia

Multimedia data includes: pictures, audio, video files (files are files for the capture plan and video plan)

Select the desired query; then select the search time, click on the selection terminal, check the vehicle you want to query and click "Save", and finally click "Query" to check the report.

Once the query is complete, the file can be downloaded to your local computer.

(Note: After clicking the query, if there is no corresponding alarm record, it will display “No data”)

3.1.6.14 ADAS/DSM report

In development

3.1.6.15 User Behavior Analysis

User behavior analysis includes user action summary, user operation log, user media summary, user media details, and device change report. You can query the operation details of the subordinate account under the current account.

Select the user you want to query; then select the search time, and finally click "Query" to find the report.

The report can be exported to Excel format after the query is completed.

(Note: After clicking the query, if there is no corresponding operation record, it will display “No data”)

3.1.6.16 Media resource files

The audio and video resource file contains audio and video resource details, audio and video resource summary table. Can query all audio and video files of the server.

Select the terminal device you want to query; then select the search time, and finally click "Query" to find the report.

The report can be exported to Excel format after the query is completed.

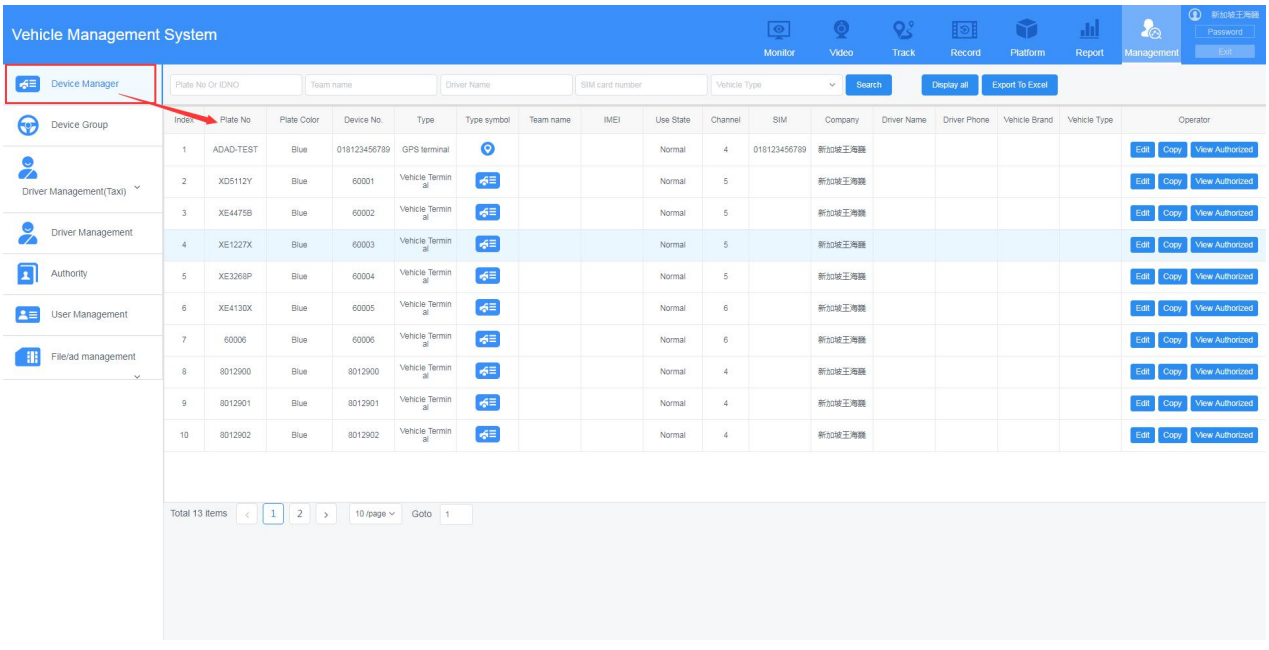
(Note: After clicking the query, if there is no corresponding operation record, it will display “No data”)

3.1.7 Management

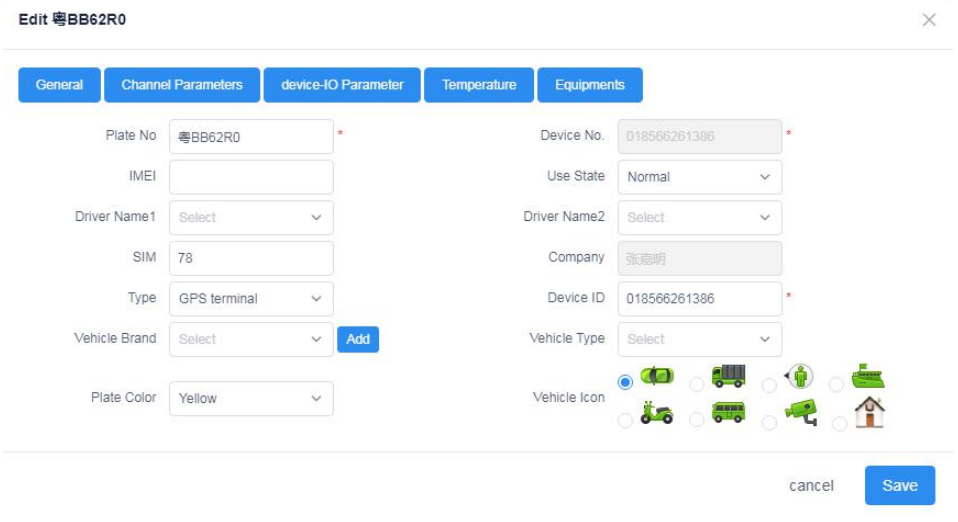
This section mainly includes the settings of related parameters such as vehicle terminal management, fleet management, driver management, role management, and user management.

3.1.7.1 Vehicle management

Vehicle terminal parameter configuration. Click Edit to enter the parameter configuration of the vehicle terminal.



Edit content: including basic parameters, channel parameters, IO parameters, temperature sensor parameters, peripheral modules, payment and contracts, etc.



- **Basic parameters：** The user can modify the device name, add the driver name, phone number, SIM card number, and replace the vehicle icon.
- **Channel parameter：** Customize the number of device channels and modify the channel name.

3.1.7.2 Fleet management

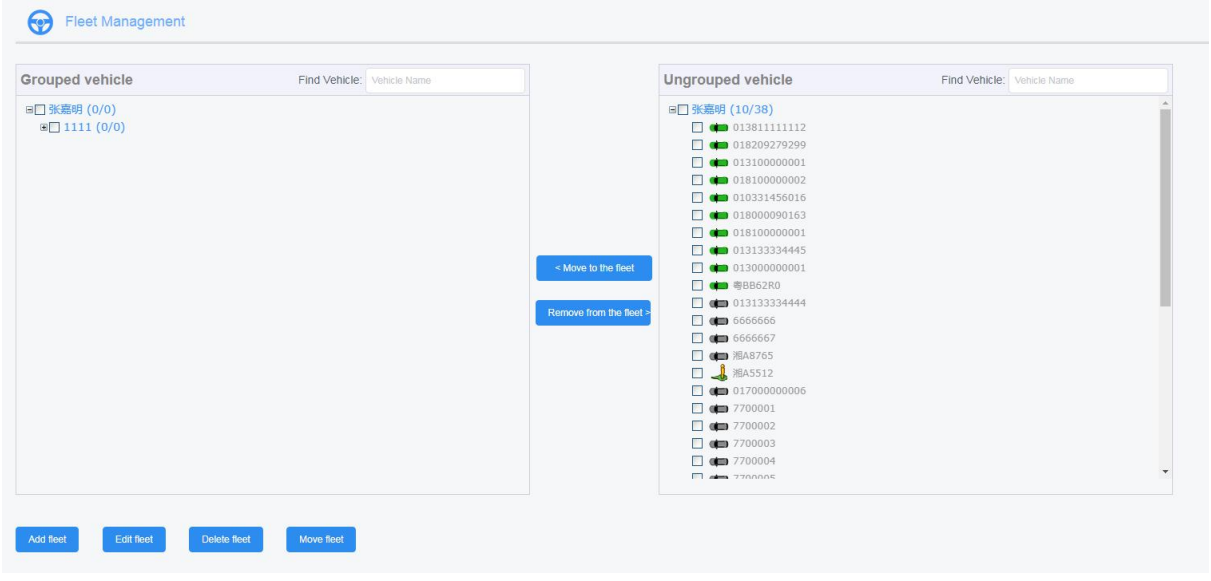
Users can create, modify, delete, move groups here, select the vehicle name, and move the vehicle to modify it by moving “Move to Group” and “Move Out Group”.

Steps:

1. Add a group

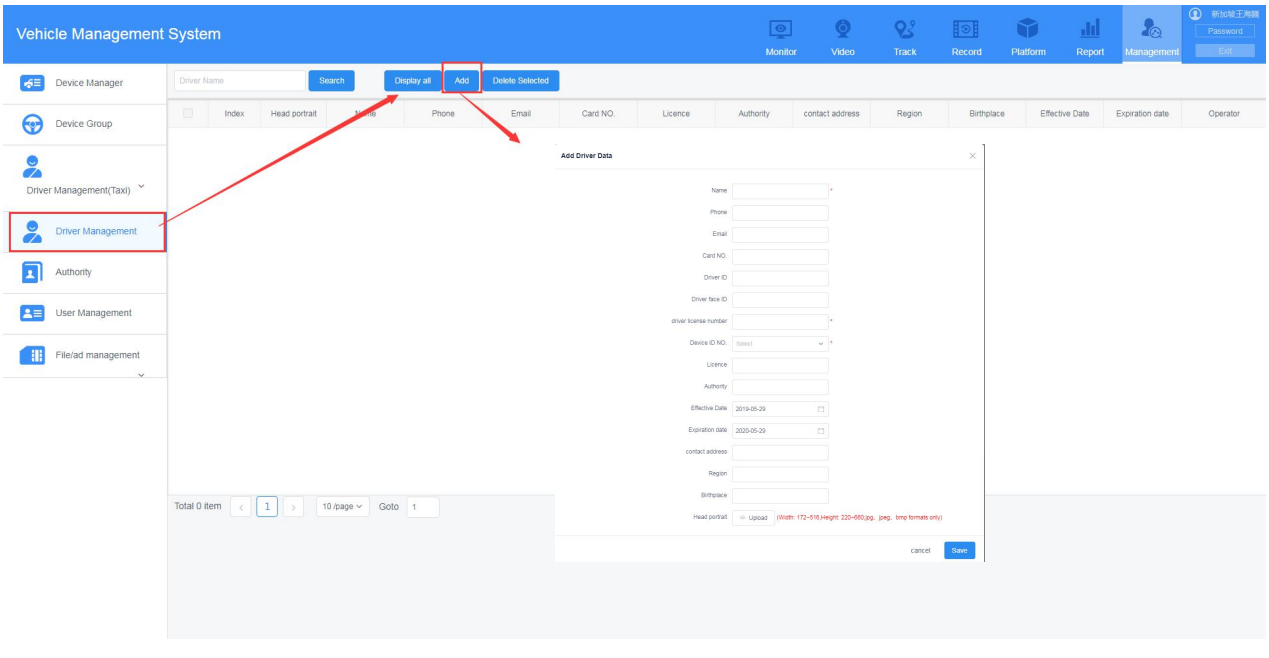
2. First select the grouping node on the left, then select the device to be grouped on the right.

3. Click the "Move to group" button



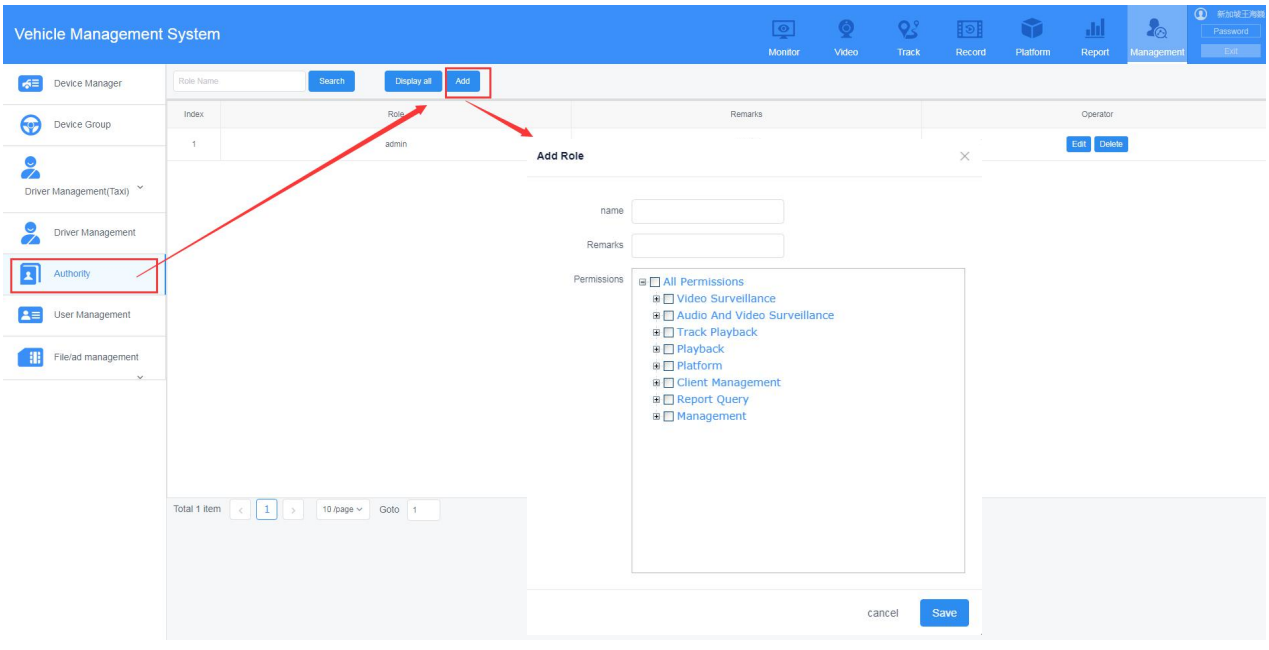
3.1.7.3 Driver management

Users can create, modify, and delete driver users here.



3.1.7.4 Role management

Add permission management for subordinate accounts.



3.1.7.5 User Management

Users can create, modify, delete, and subordinate users here.