



**How to configure LPR Function of Hikvision
Devices via IVMS-5200P**

1 Purpose

Vehicle Detection is available for the road traffic monitoring. In Vehicle Detection, the passed vehicle can be detected and the picture of its license plate can be captured. You can send alarm signal to notify the surveillance center and upload the captured picture to FTP server.

Note: Road traffic function varies according to different camera models. And, Mixed-traffic Detection (detecting pedestrian, non-motor vehicle and motor vehicle) is also available for some certain regions.

Connect to camera via any appropriate WEB browser and login to camera using the appropriate administrative account.

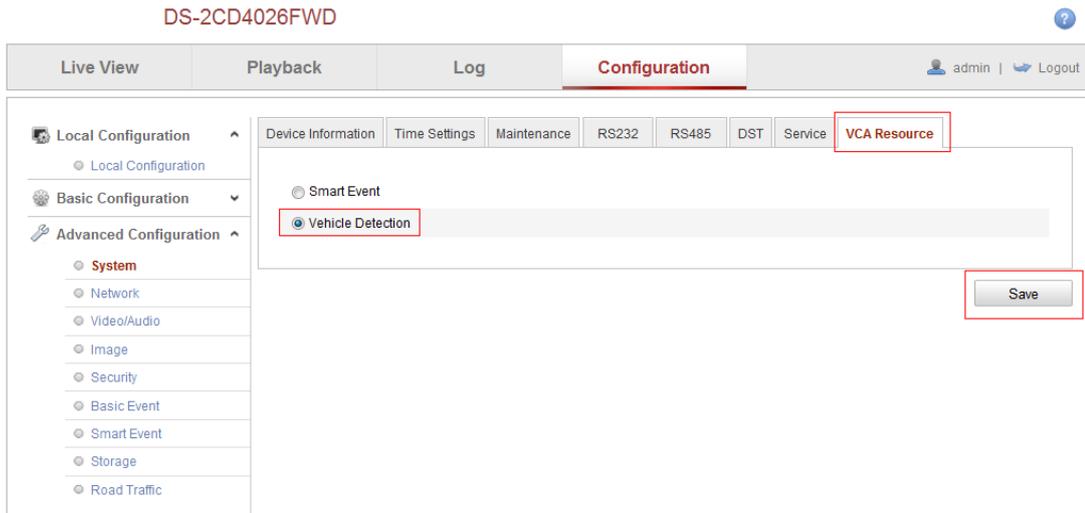
2 iVMS-5200P Software Configuration

2.1 Enable Vehicle Detection

1. Upgrade the firmware to the specific firmware (**5.2.7 build 150210**). The camera has to be connected to local network.
2. VCA resource can be efficiently allocated to get a better performance. Two modes of VCA resource allocation are supported: Smart Event and Vehicle Detection. Go to **Configuration-> Advanced Configuration-> System -> VCA Resource** Select **Vehicle Detection** for the VCA resource allocation. Reboot the device to activate the new settings.

Note:

When Smart Event is enabled, the Vehicle Detection function is limited; When the Vehicle Detection is enabled, high frame rate, recording on SD card or NAS / CIFS, some certain smart events (for the details, see the actual operation interface) and people counting (non-iDS) are limited.



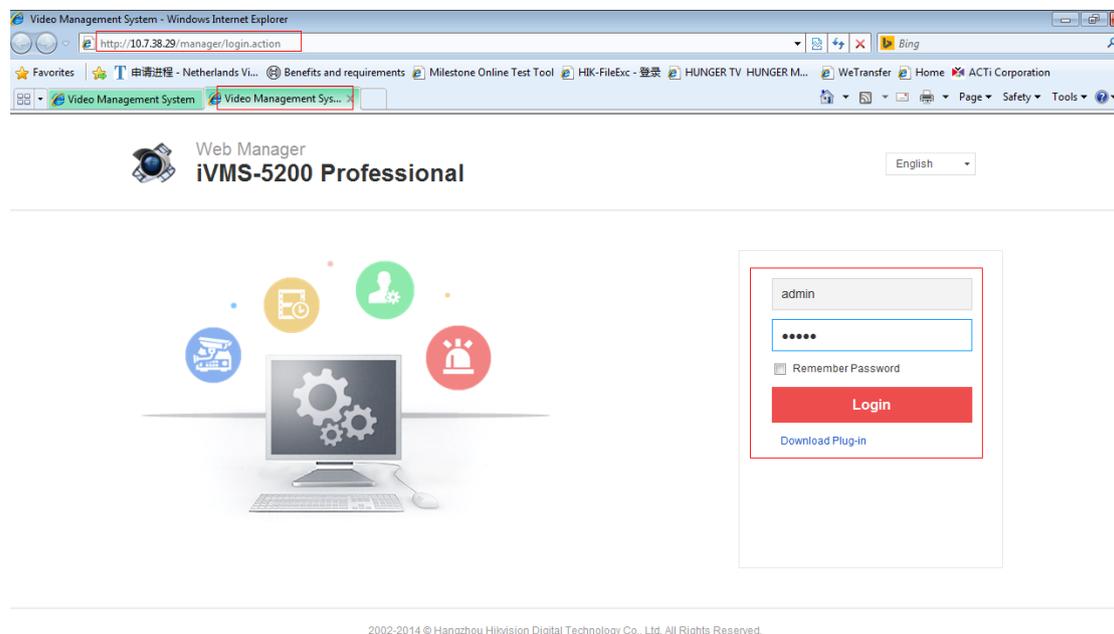
2.2 LPR Configuration on 5200P

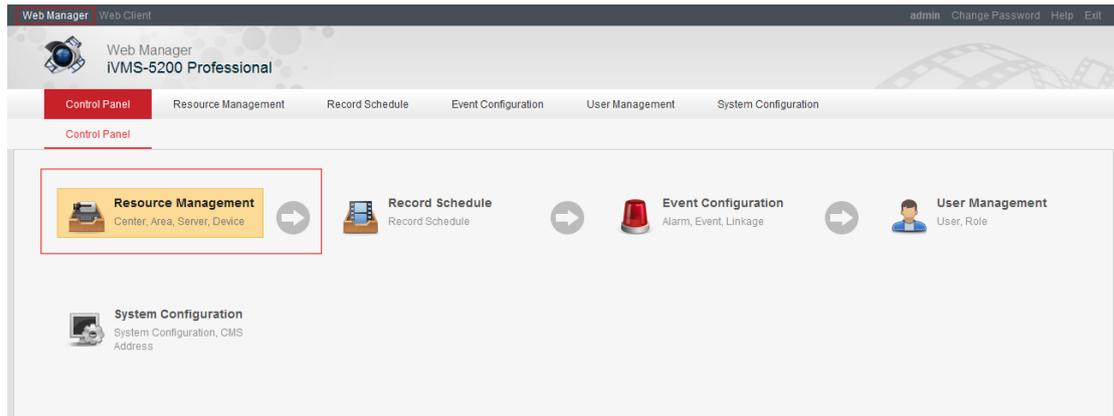
2.2.1 LPR Configuration

Open the **Web Manager** page of **iVMS-5200 Professional**, login and go to **Resource Management** option.

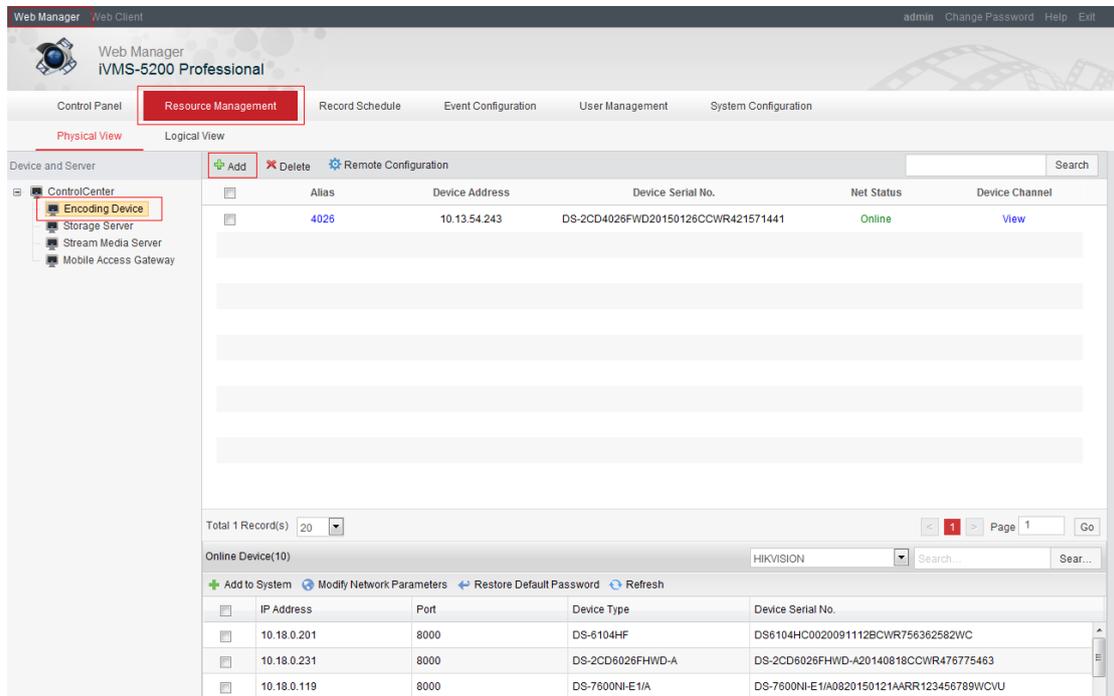
Note:

The default user name and PWD of 5200P is admin and 12345.





Select **Encoding device** and add the LPR camera into the software as follows. And click **OK** button, then you will see the device online.



Add ✕

Adding Mode: Single IP Address

Add Offline Devices:

Manufacturer: HIKVISION

* IP Address: ✓

* Port: ✓

* Alias: Range:[1~32] the characters such as !:*?!"<>| cannot be entered.

* User Name:

* Password:

Export to Area:

Superior: ControlCenter

Stream Media Server: Management

OK
Cancel

Go to **Remote Configuration->Vehicle Detection**, configure the parameters just like as follows.

- A. Select the **total number of lane** and **State** as you want. Then click **Draw** button, the region appears and click **Edit** to configure the **Arming schedule**. Enable the event alarm uploading
- B. Configure the picture parameter of plate as follows.
- C. If you want to upload the picture to the cloud, please fill in the cloud info here.
- D. Fill in the camera info for reference.

Web Manager Web Client admin Change Password Help Exit

Web Manager
IVMS-5200 Professional

Control Panel Resource Management Record Schedule Event Configuration User Management System Configuration

Physical View Logical View

Device and Server + Add ✕ Delete ⚙ Remote Configuration

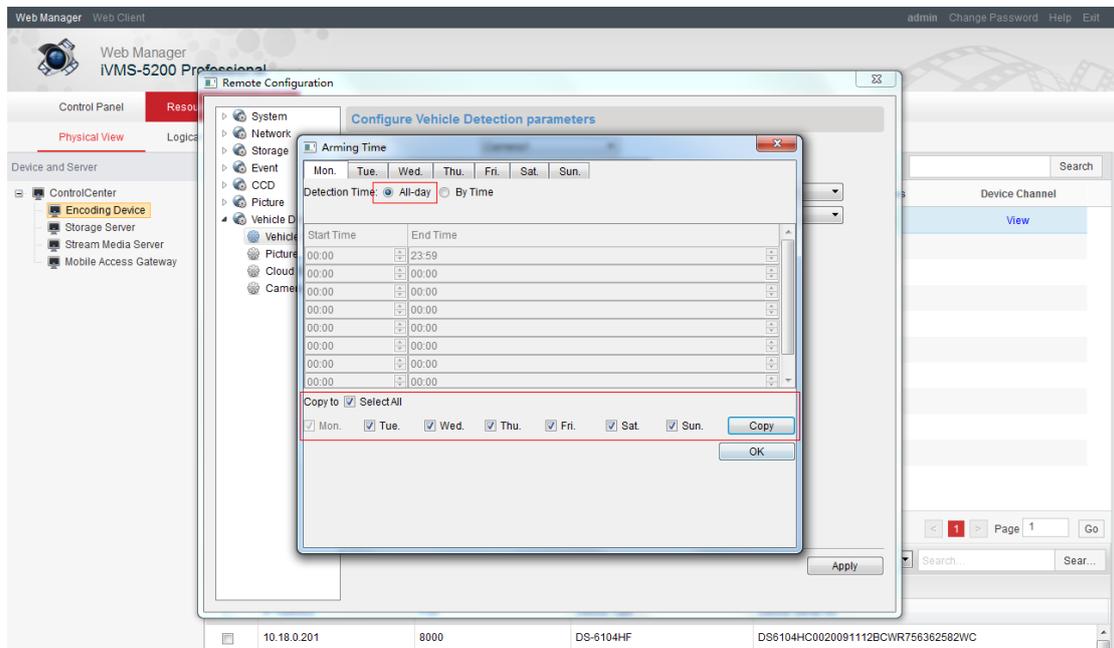
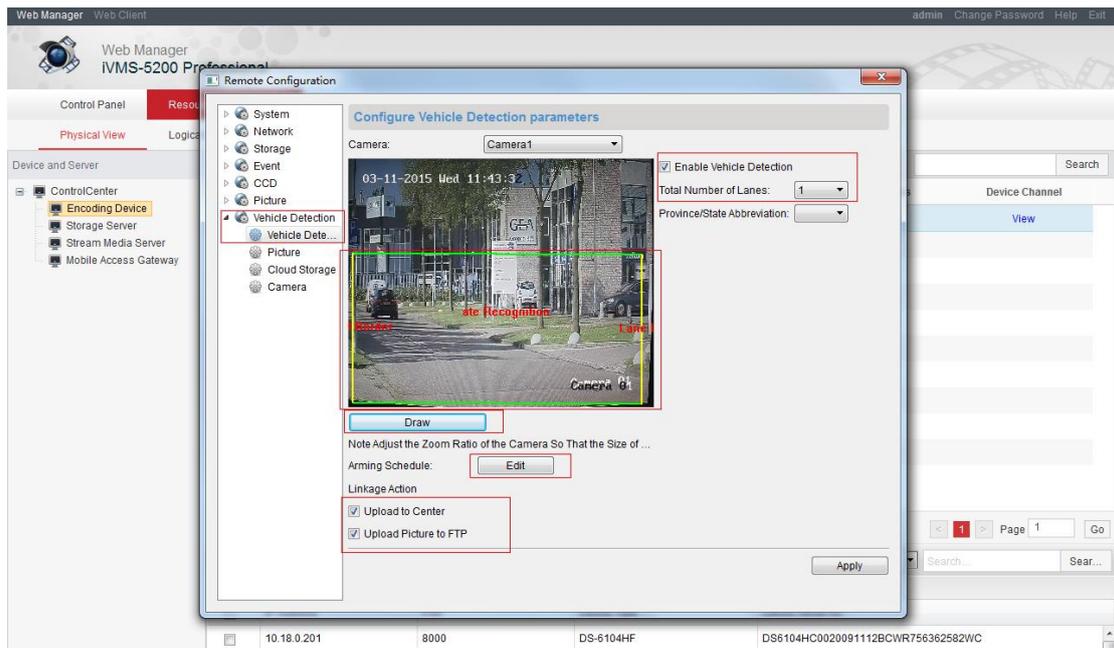
Alias	Device Address	Device Serial No.	Net Status	Device Channel
4026	10.13.54.243	DS-2CD4026FWD20150126CCWR421571441	Online	View

Total 1 Record(s) 20 Page 1 Go

Online Device(9) HIKVISION Search...

+ Add to System Modify Network Parameters Restore Default Password Refresh

IP Address	Port	Device Type	Device Serial No.
10.18.0.201	8000	DS-6104HF	DS6104HC0020091112BCWR756362582WC



Web Manager Web Client admin Change Password Help Exit

Web Manager IVMS-5200 Professional

Control Panel Resolution Physical View Logical View

Device and Server

- ControlCenter
- Encoding Device
- Storage Server
- Stream Media Server
- Mobile Access Gateway

Remote Configuration

Configure Picture parameters.

Camera: Camera1

Picture

Picture Quality [1-100]:

Picture Size [64-2048K]:

Enable OSD Overlay

Font Color:

Background Color:

Picture OSD Overlay

Camera ID Camera Info Device ID Capture Time Plate No

Type

Camera ID

Device ID

Capture Time

Camera Info

10.18.0.201	8000	DS-6104HF	DS6104HC0020091112BCWR756362582WC
10.18.0.231	8000	DS-2CD6026FHWD-A	DS-2CD6026FHWD-A20140818CCWR476775463
10.18.0.230	8000	IDS-2CD6024FWD-AF	IDS-2CD6024FWD-AF20140821CCCH476928070

Web Manager Web Client admin Change Password Help Exit

Web Manager IVMS-5200 Professional

Control Panel Resolution Physical View Logical View

Device and Server

- ControlCenter
- Encoding Device
- Storage Server
- Stream Media Server
- Mobile Access Gateway

Remote Configuration

Configure Cloud Storage parameters

Camera: Camera1

Enable Cloud Storage

Server IP Address:

Server Port:

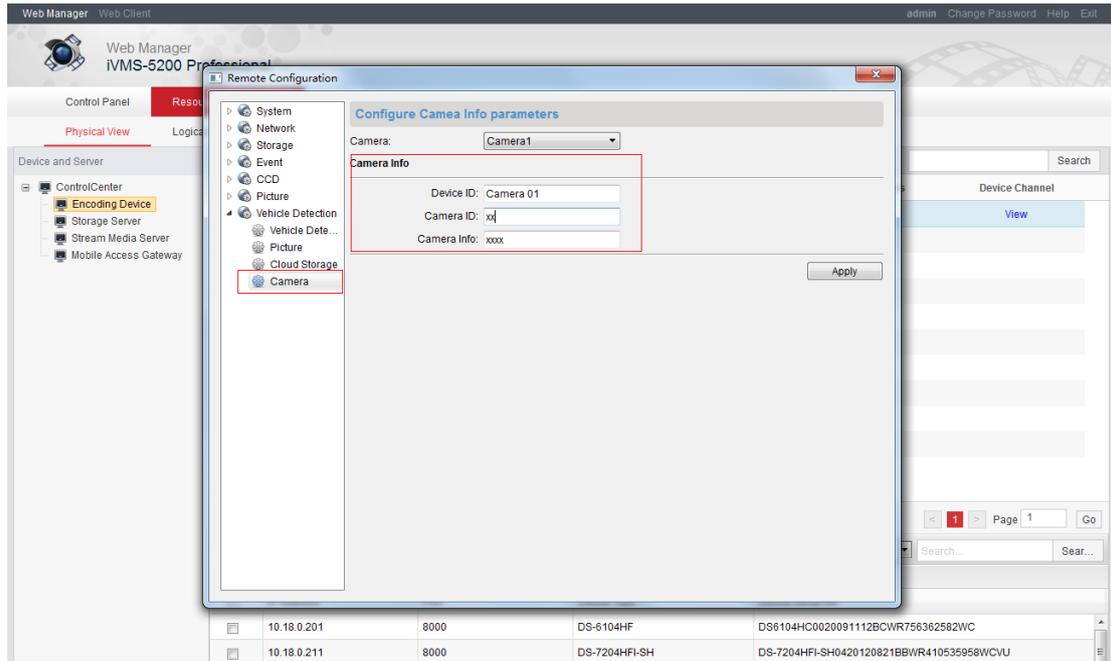
User Name:

Password:

Confirm Password:

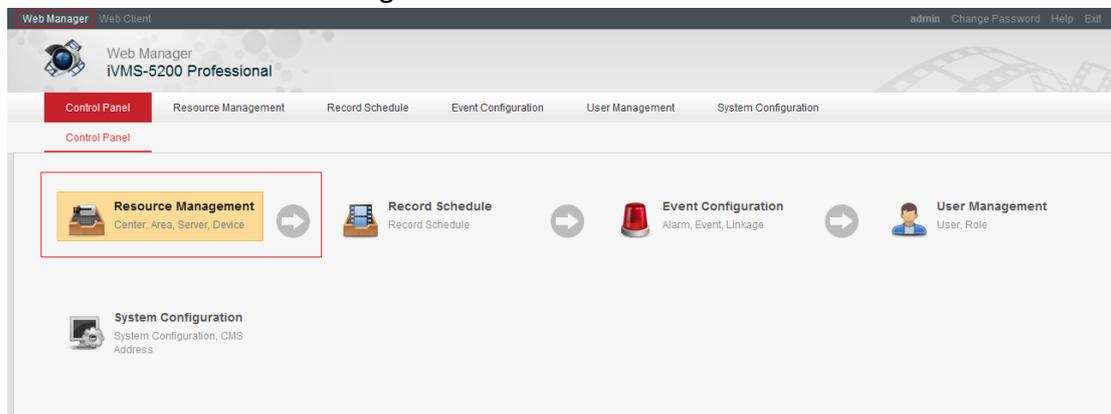
Pool ID:

10.18.0.201	8000	DS-6104HF	DS6104HC0020091112BCWR756362582WC
10.18.0.211	8000	DS-7204HFI-SH	DS-7204HFI-SH0420120821BBWR410535958WCVU



2.2.2 Storage server Configuration

Please make sure that **Storage Server** is enabled and then go to **Resource Management** to add it into 5200P. In sake of saving the video clip more accurately, users need to configure the record schedule via iVMS-5200P Storage. Please see the detailed configuration as below.



Web Manager Web Client admin Change Password Help Exit

Web Manager
IVMS-5200 Professional

Control Panel **Resource Management** Record Schedule Event Configuration User Management System Configuration

Physical View Logical View

Device and Server

Alias	IP Address	Net Status	CPU Usage	RAM Usage	Operation
SS_10.7.38.29	10.7.38.29	Online	0%	0%	Configuration

Add

* IP Address: 10.7.38.29 Format: 127.0.0.1

* Alias: SS_10.7.38.29 ✓

CMS IP: 10.7.38.29

* Control Port: 6400

* Data Port: 6404

* Network Port: 6401

* Picture Storage Port: 8088

OK Cancel

Web Manager Web Client admin Change Password Help Exit

Web Manager
IVMS-5200 Professional

Control Panel **Resource Management** Record Schedule Event Configuration User Management System Configuration

Control Panel

Resource Management
Center, Area, Server, Device

Record Schedule
Record Schedule

Event Configuration
Alarm, Event, Linkage

User Management
User, Role

System Configuration
System Configuration, CMS Address

Web Manager Web Client admin Change Password Help Exit

Web Manager
IVMS-5200 Professional

Control Panel Resource Management **Record Schedule** Event Configuration User Management System Configuration

Record Schedule

Resource

Camera Camera 01 Record Schedule Copy to Save

Search... Sear...

ControlCenter
4026
Camera 01

Record Template Configuration

Recording Time Edit Template

Local Record Schedule

Enable Record Schedule

Record Template Configuration All-day template

Storage Server Record Schedule

Enable Record Schedule

Record Schedule Template All-day template ✓

Storage Server SS_10.7.38.29 ✓ Management

Stream Type Main Stream ✓

Obtain video stream via Stream Media Server

Stream Media Server Management

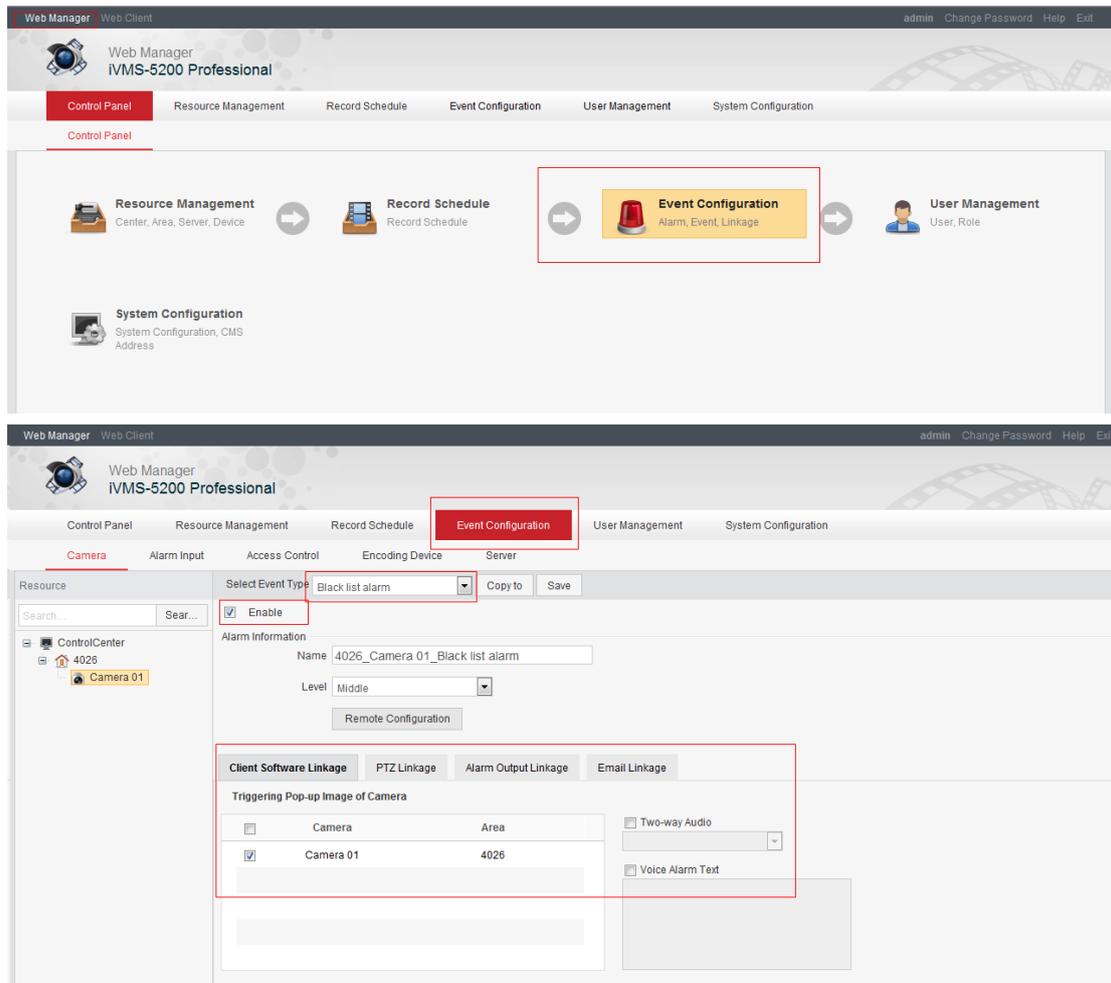
Picture Storage

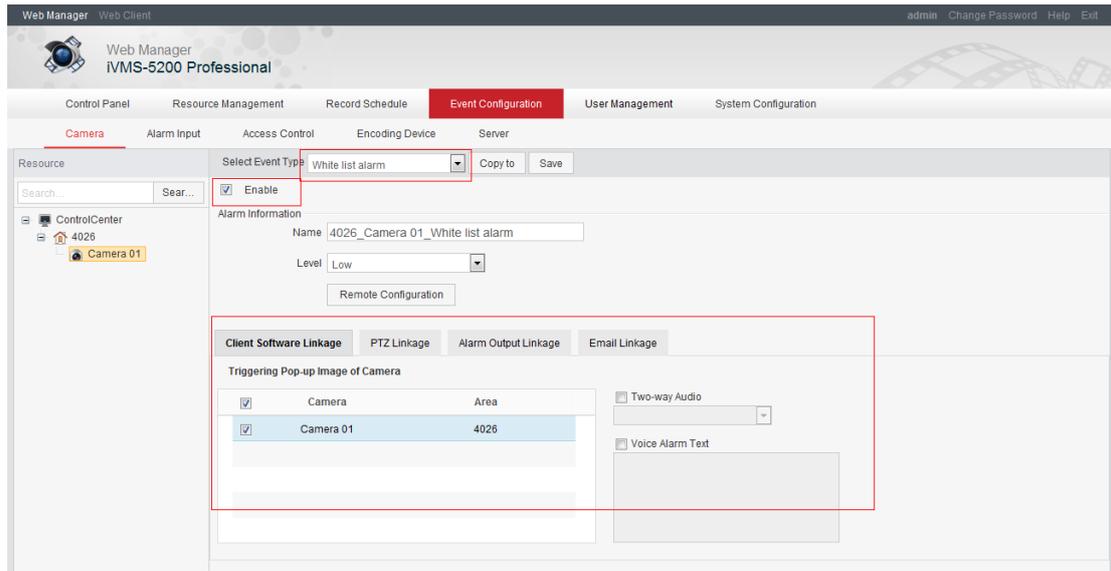
Enable

Storage Server SS_10.7.38.29 ✓

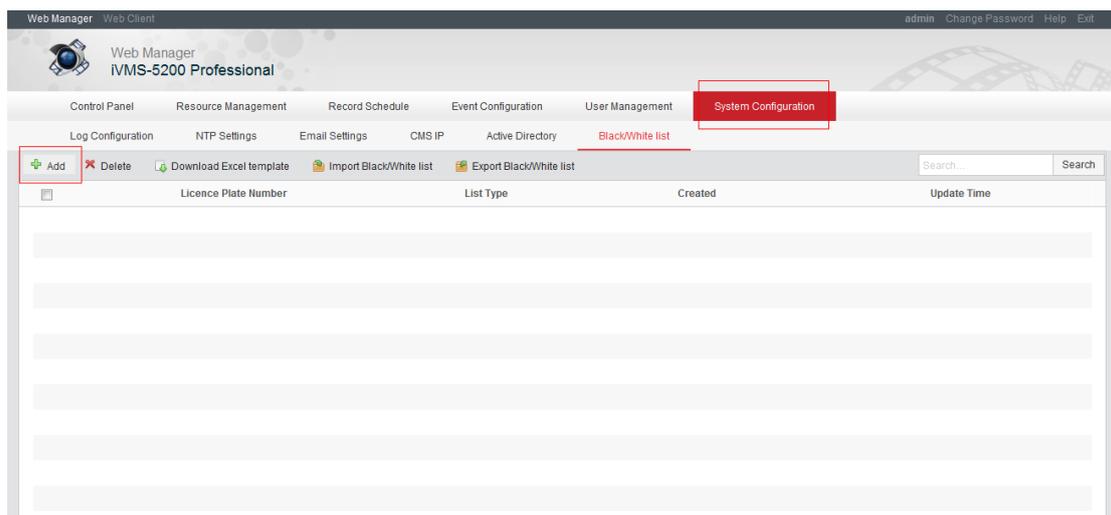
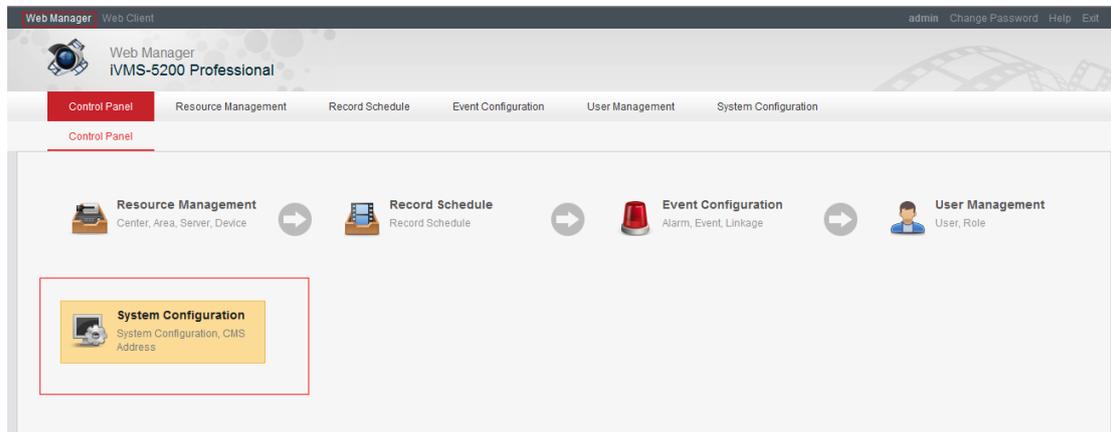
2.2.3 Black/White List Alarm

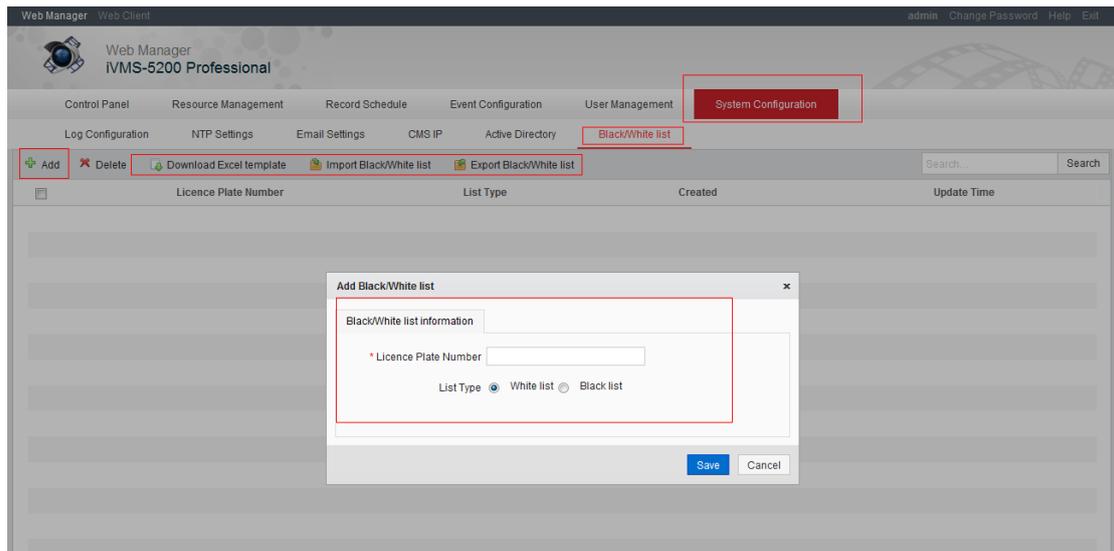
In this part, users need to configure the event trigger to make sure the alarm can be received by 5200P. Here 5200P supports **Black/White list** alarm uploading, users also can configure other alarm trigger as you want. Please see the detailed configuration as below.





2 Go to **System Configuration-> Black/White list**, users can import the list by themselves. **Download Excel template** and **Export Black/White list** are also supported.

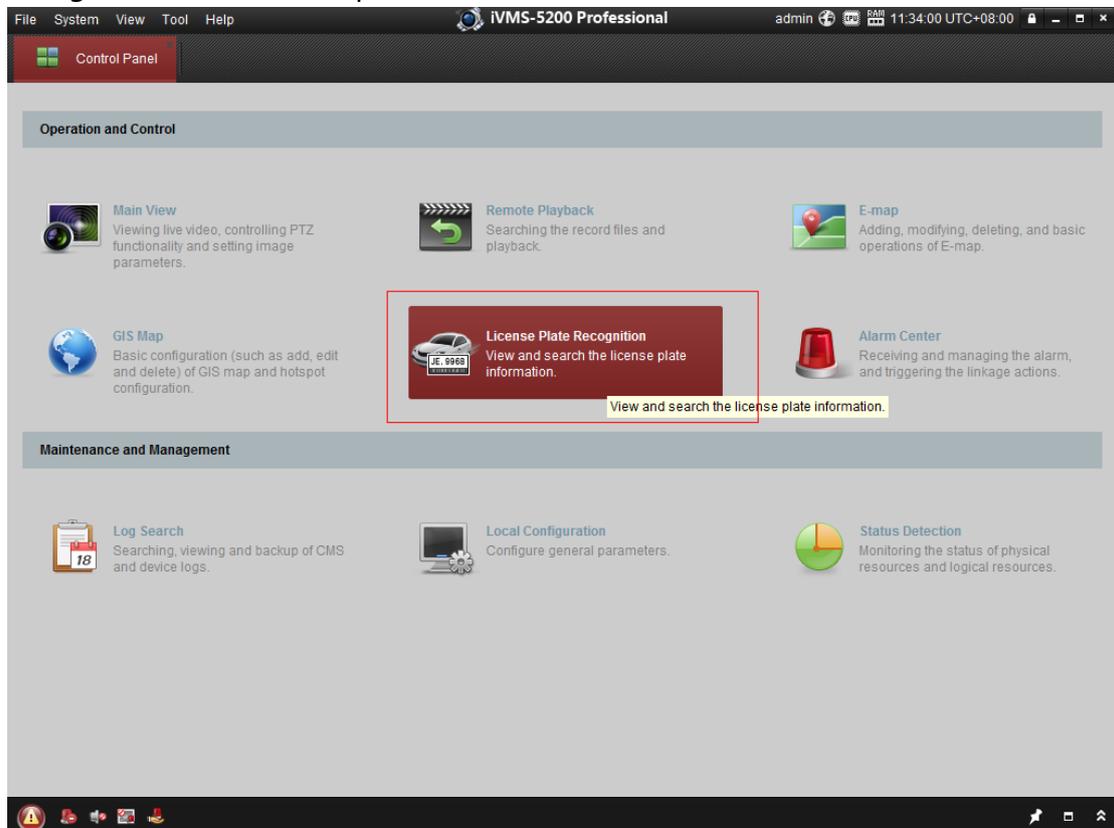




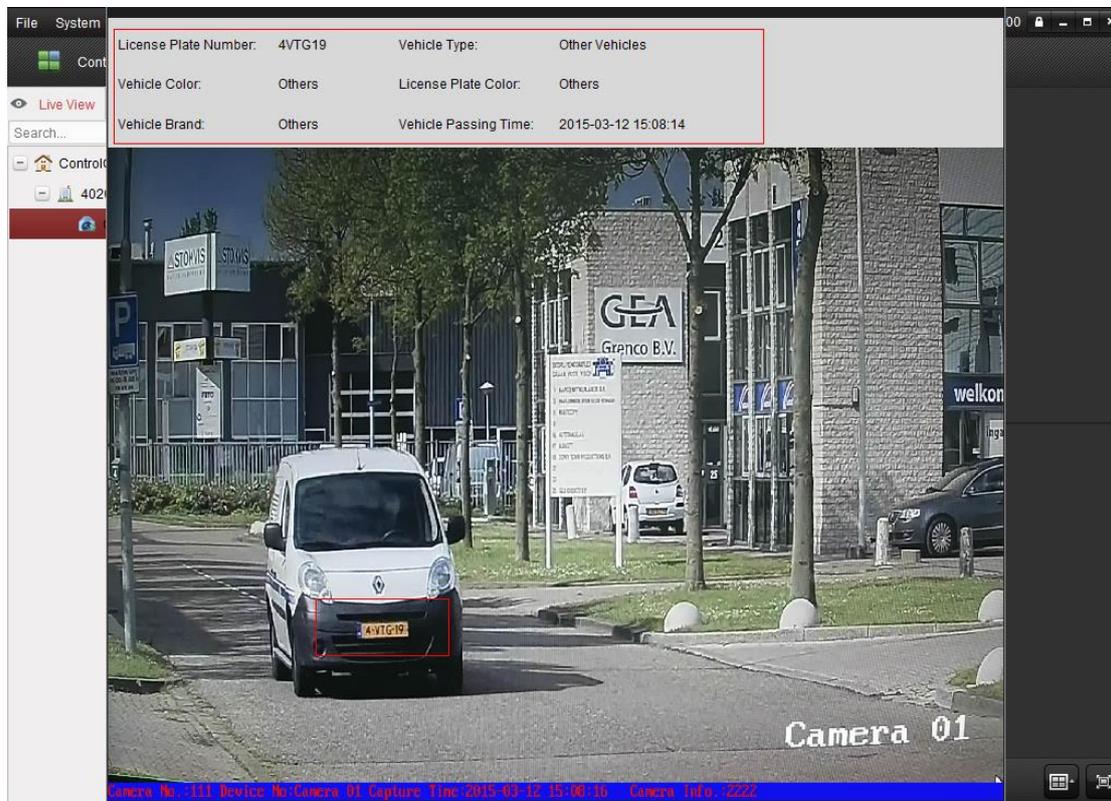
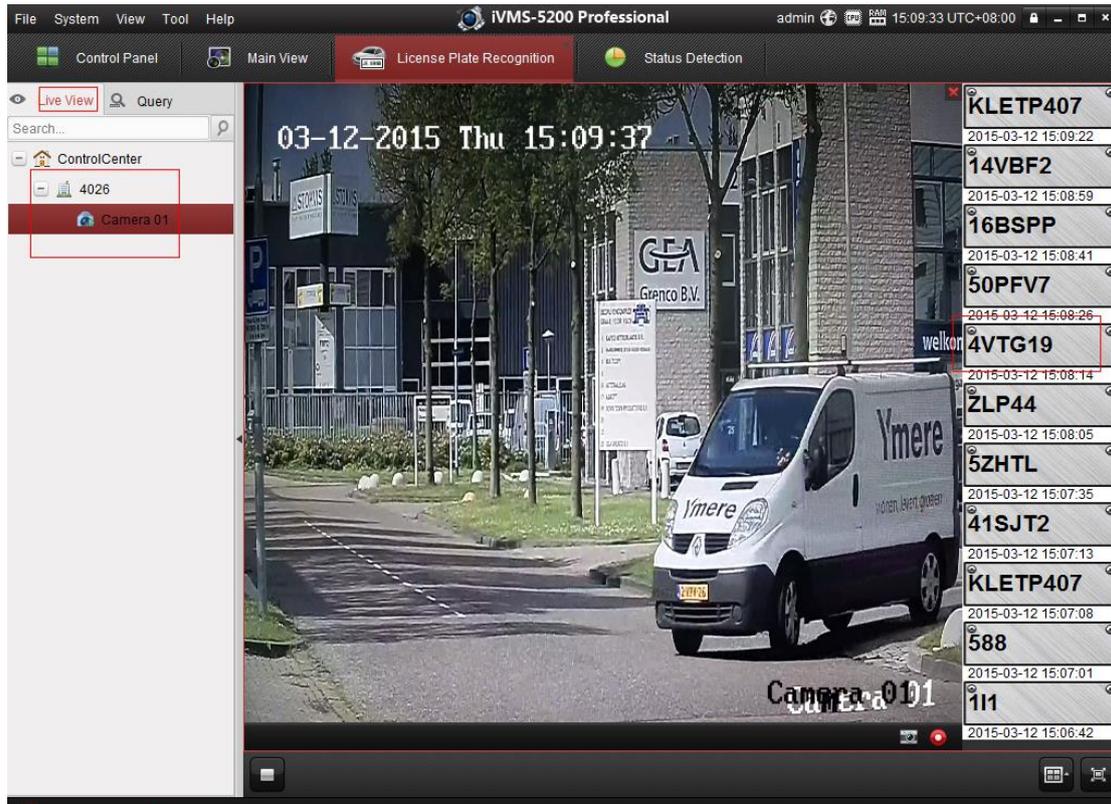
3 LPR Live view and Result searching

3.1 Live View

Open *iVMS-5200 Control Client*, connect to the correct CMS and go to **License Plate Recognition** in the control panel.



Select the camera and Live view, the plate captured will display on the image synchronously. Double click the plate, the detailed info will be show on the interface.



3.2 Result Query

Go to **Query** option, select the start time/stop time and click **Search**, the specific plate info will be shown on the page. You also can see the current image by click **Playback** button.

Please see detailed info as below.

The screenshot shows the iVMS-5200 Professional software interface. The top menu bar includes File, System, View, Tool, and Help. The main navigation bar has Control Panel, Main View, License Plate Recognition, and Status Detection. The interface is divided into three main sections:

- Left Panel (Search Query):** Contains a search bar, a 'ControlCenter' section with a '4026' button, and a search filter section. The filter section includes:
 - Search by License Plate Number (selected)
 - License Plate Number: [input field]
 - Search by Other Conditions
 - Vehicle Logo: All
 - Vehicle Type: All
 - Vehicle Color: All
 - License Plate Color: All
 - Start Time: 2015-03-12 00:00:00
 - End Time: 2015-03-12 23:59:59
 - Search button
- Center Panel (Live View):** Shows a camera feed from 'Camera 01' displaying a street scene with a white van and a white car. A red box highlights the license plate area on the white car.
- Right Panel (Vehicle Information):** Displays details for the selected license plate:
 - License Plate Number: 41SJT2
 - License Plate Color: Others
 - Vehicle Type: Other Vehicles
 - Vehicle Color: Others
 - Vehicle Logo: Others
 - Camera Name: Camera 01
 - Capture Time: 2015-03-12 15:01:11
 - Vehicle Playback: Playback button
- Bottom Panel (Search Results):** A table showing search results:

Camera Name	License Plate Number	Vehicle Type	Capture Time
Camera 01	41SJT2	Other Vehicles	2015-03-12 15:01:11
Camera 01	22SVX2	Other Vehicles	2015-03-12 15:01:09
Camera 01	KLETP407	Other Vehicles	2015-03-12 15:01:07
Camera 01	459FN3	Other Vehicles	2015-03-12 15:01:03
Camera 01	41SJT2	Other Vehicles	2015-03-12 10:54:23
Camera 01	22X2	Other Vehicles	2015-03-12 10:54:21
Camera 01	KLETP407	Other Vehicles	2015-03-12 10:54:19
Camera 01	45JFN3	Other Vehicles	2015-03-12 10:54:16

File System View Tool Help iVMS-5200 Professional admin 15:12:14 UTC+08:00

Control Panel Main View License Plate Recognition Status Detection

Live View Query

Search...

ControlCenter

4026

Search by License Plate Number

License Plate Number

Search by Other Conditions

Vehicle Logo: All

Vehicle Type: All

Vehicle Color: All

License Plate Color: All

Start Time: 2015-03-12 00:00:00

End Time: 2015-03-12 23:59:59

Search

Playback

03-12-2015 Thu 15:10:54

Camera 01

License:4TFJ93

Time:2015-03-12 15:10:54

Exit

Number: 4TFJ93

Color: Others

Type: Other Vehicles

Color: Others

Logo: Others

Name: Camera 01

Time: 2015-03-12 15:10:54

Playback

Camera 01	79ZSH3	Other Vehicles	2015-03-12 15:10:25
Camera 01	10WV9	Other Vehicles	2015-03-12 15:09:56
Camera 01	STX08	Other Vehicles	2015-03-12 15:09:46

Total:638 Page:2/80 Item Per Page: Self-adaptive Page Go