



How to configure Hikvision LPR Function via Web

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.*

2 Web Configuration

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

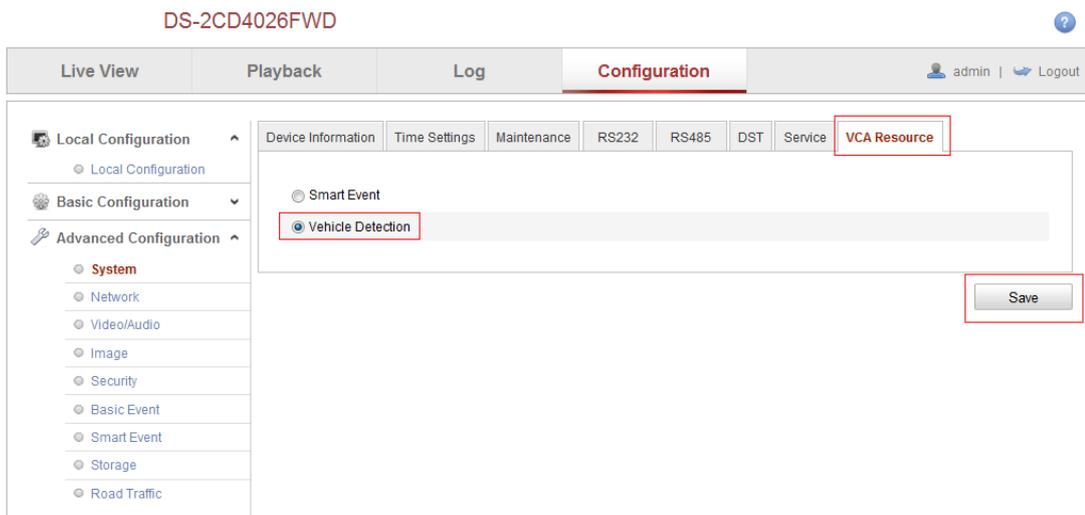
2.1 Detection configuration

1. Upgrade the firmware to the specific firmware. 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.

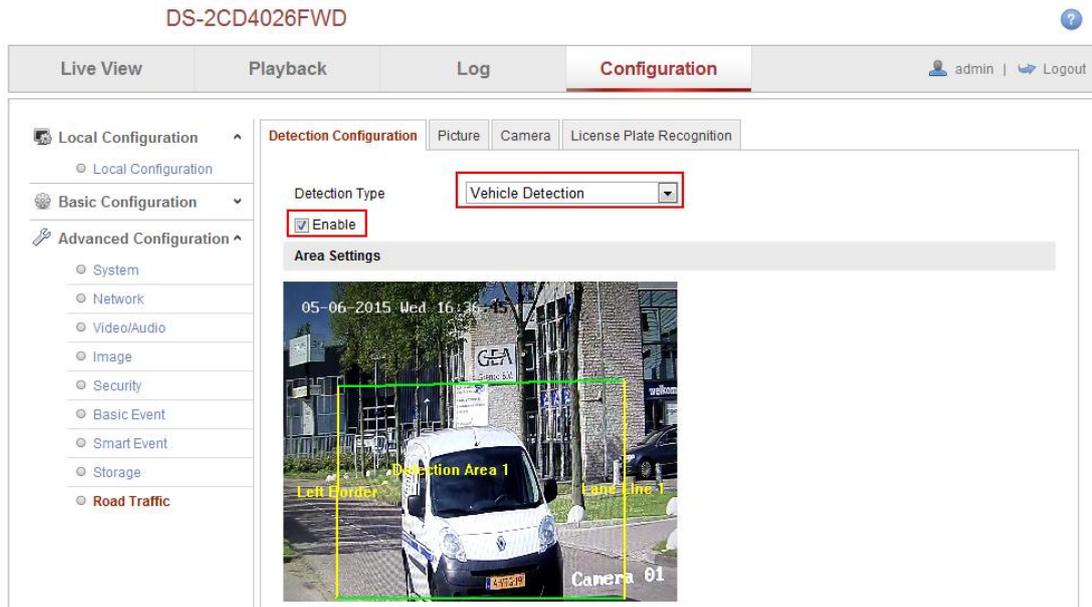
Go to **Configuration-> Advanced Configuration-> System -> VCA Resource**

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.*



- Then go to **Advanced Configuration->Road Traffic** option. Select the detection type from the list. **Vehicle Detection** can be selectable.

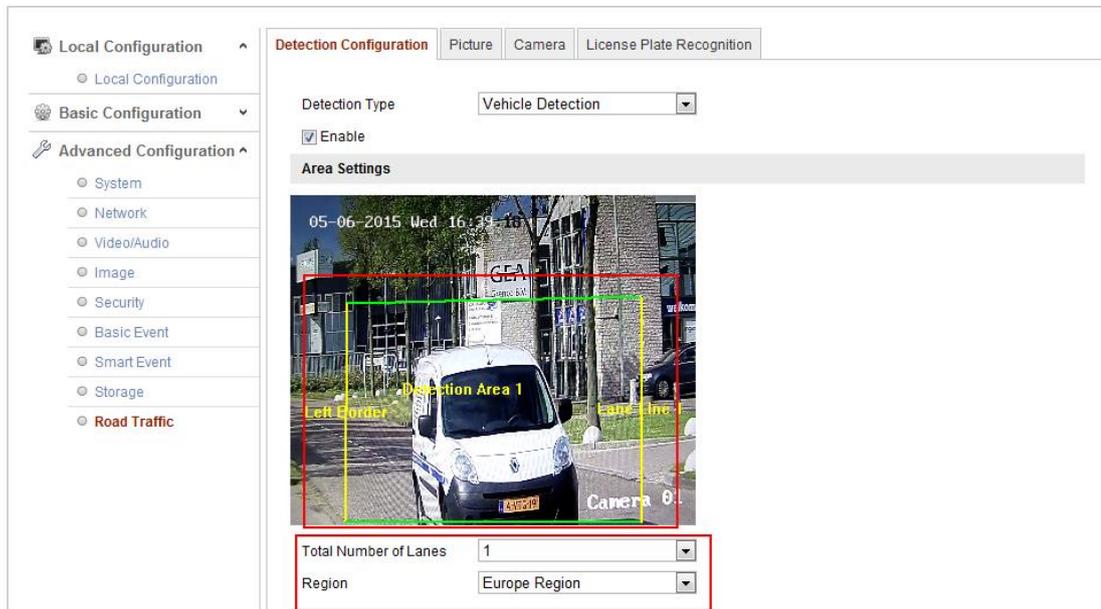


- Enable the selected detection function. Then select the lane number in the corresponding dropdown list. Up to 4 lanes are selectable.
- Click and drag the lane line to set its position, or click and drag the line end to adjust the length and angle of the line.

Note:

Only 1 license plate can be captured at one time for each lane.

- Select a State Abbreviation in the dropdown list.



- Set the Arming Schedule for Vehicle Detection. To edit the arming schedule, click **Edit** button. After setting the arming schedule, click the **Copy** button to copy the schedule to other days. Click the **OK** button to save the settings.

Note:

The time of each period cannot be overlapped.

- Check the checkbox to select the linkage method. Notify surveillance center and upload to FTP are selectable.

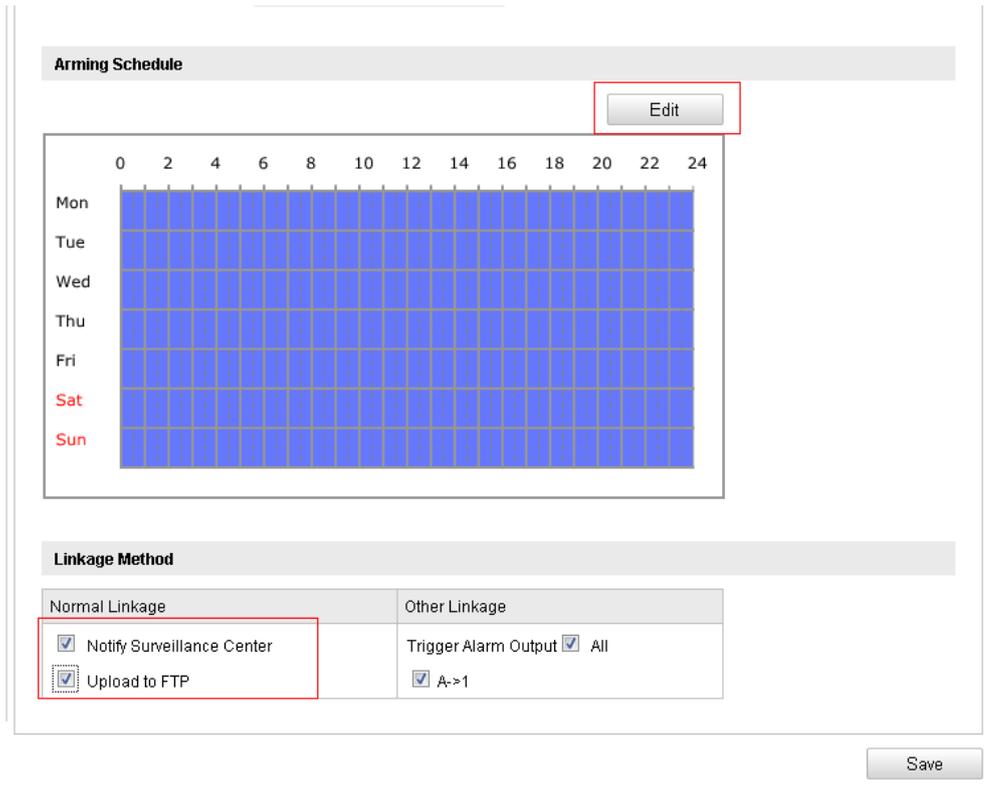
Notify Surveillance Center:

Send an exception or alarm signal to remote management software when an event occurs.

Upload to FTP:

Capture the image when an alarm is triggered and upload the picture to a FTP server. And save the picture on the local SD card or connected NAS.

- Click the **Save** button to activate the settings.



2.2 Upload picture Configuration

- Set the picture quality

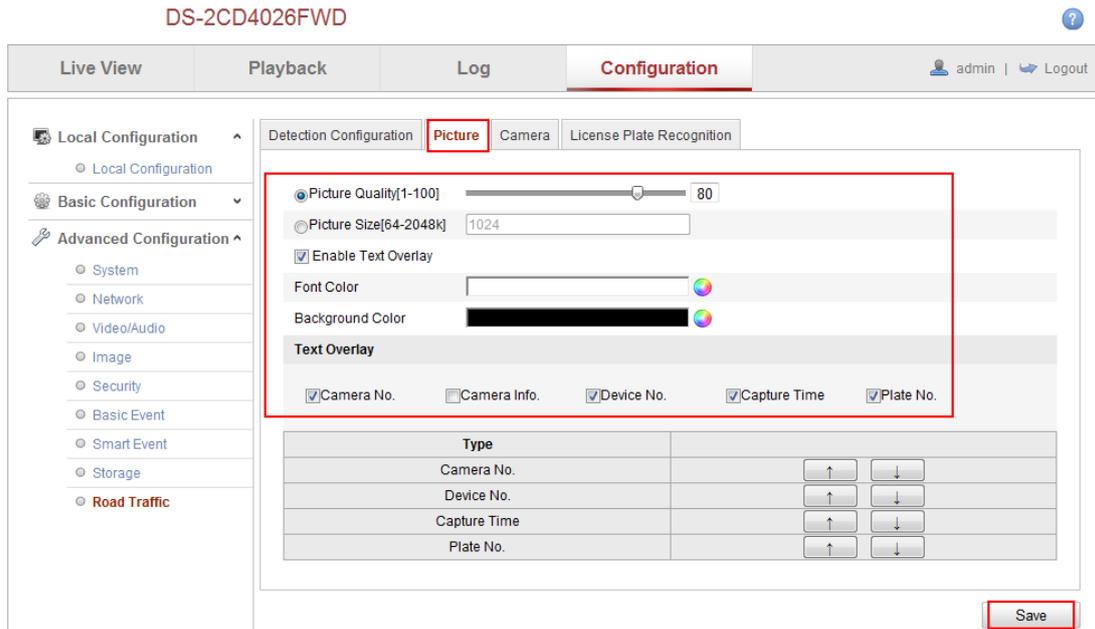
Either Picture Quality or Picture Size can be set to specify the picture quality.

- (Optional)** Enable and edit the text overlay on the uploaded picture.

You can set the font color and background color, and click the desired color in the popup palette.

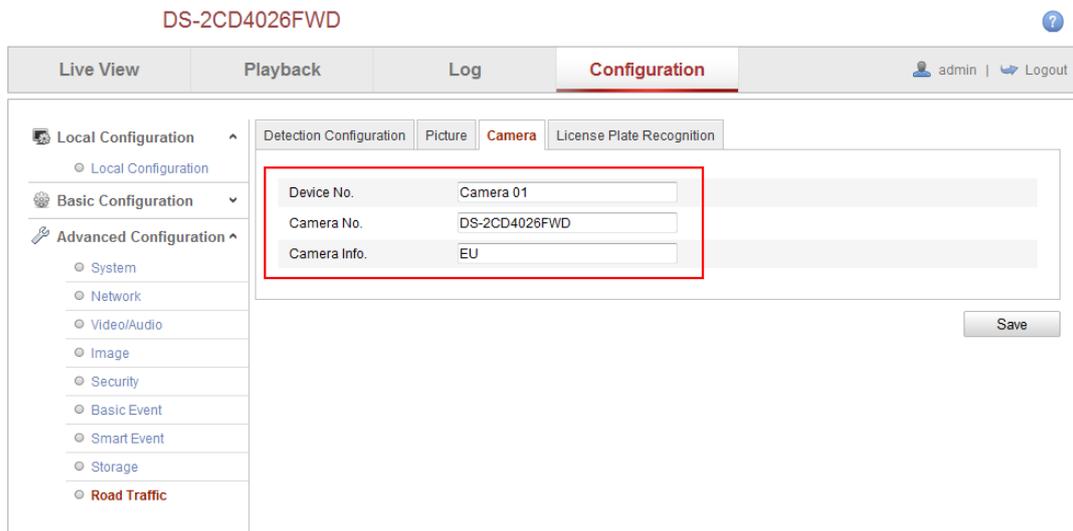
- Select the information for the text overlay, including **camera No.**, **camera info**, **device No.**, **capture time**, **plate No.**, **vehicle color**, etc. You can also click the up and down direction buttons to adjust the sequence of the text.

- Click **Save** to save the settings.



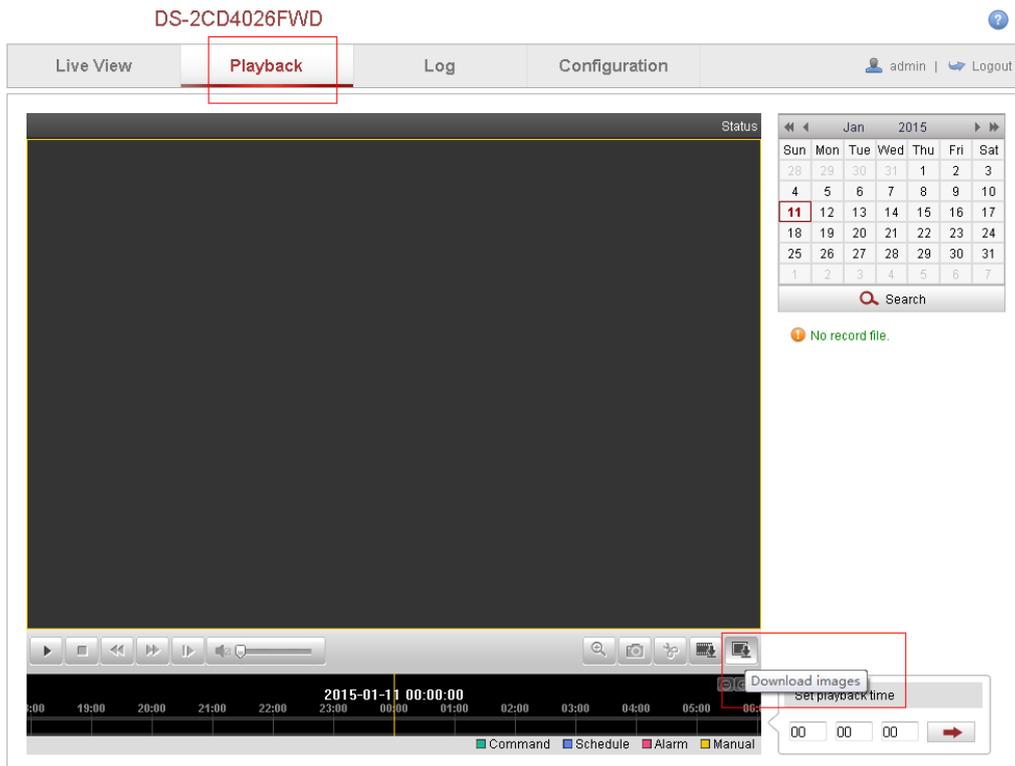
2.3 Overlay Content Configuration

1. Edit the content of the **camera No.**, **camera information** and **device information** in the corresponding text filed.
(**Optional**) Enable and edit the text overlay on the picture to upload.
2. Click the **Save** button to activate the settings.



3 Result Query

Go to **Playback->Download pictures**, select **Vehicle Detection** option, you can search the plate picture and info on the SD card.



You will see the plate info here

3 Recommend Parameters

To obtain the maximum license plate recognition accuracy, you need to set the suitable camera image parameters, here are some Recommend Parameters.

3.1 Exposure Settings.

Iris Mode: Auto

Auto Iris Lever: 50

Property in copyright belongs to Hikvision.

Exposure Time: 1/1000

Gain: 20

The screenshot shows the 'Local Configuration' window for a camera. The 'Display Settings' tab is selected. On the left, the 'Image' option under 'Advanced Configuration' is highlighted. The central video feed shows a white van with the license plate 'ZG 1559 PD' and a timestamp of '05-05-2015 Tue 16:08:24'. On the right, the 'Exposure Settings' section is expanded, showing 'Iris Mode' set to 'Auto', 'Auto Iris Level' at 50, 'Exposure Time' at '1/1000', and 'Gain' at 20. Other sections like 'Focus Settings', 'Day/Night Switch', 'Backlight Settings', 'White Balance', 'Image Enhancement', 'Video Adjustment', and 'Other' are collapsed.

3.2 Day/Night Switch.

Day/Night Switch: Auto

Sensitivity: 4

Filtering Time: 5

Smart IR: ON

Mode: Auto

The screenshot shows the same 'Local Configuration' window. The 'Image' option is highlighted. The central video feed shows the same white van with a timestamp of '05-05-2015 Tue 16:09:18'. On the right, the 'Day/Night Switch' section is expanded, showing 'Day/Night Switch' set to 'Auto', 'Sensitivity' at 4, 'Filtering Time' at 5, 'Smart IR' set to 'ON', and 'Mode' set to 'Auto'. Other sections are collapsed.

3.3 Backlight Settings.

BLC Area: OFF

WDR: OFF

The screenshot displays the Hikvision camera configuration web interface. On the left, a navigation menu is visible with the following categories: Local Configuration, Basic Configuration, and Advanced Configuration. Under Advanced Configuration, the 'Image' option is selected and highlighted with a red box. At the top of the main content area, there are several tabs: 'Display Settings' (highlighted with a red box), 'OSD Settings', 'Text Overlay', 'Privacy Mask', and 'Picture Overlay'. The central part of the interface shows a live video feed from 'Camera 01' with a timestamp of '05-05-2015 Tue 16:13:29'. To the right of the video feed, there are various configuration settings. The 'Backlight Settings' section is expanded and highlighted with a red box, showing 'BLC Area' set to 'OFF' and 'WDR' set to 'OFF'. Other visible settings include 'Switch Day and Ni...' set to 'Auto-Switch', and sections for 'Image Adjustment', 'Exposure Settings', 'Focus Settings', 'Day/Night Switch', 'White Balance', 'Image Enhancement', 'Video Adjustment', and 'Other'.