



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.

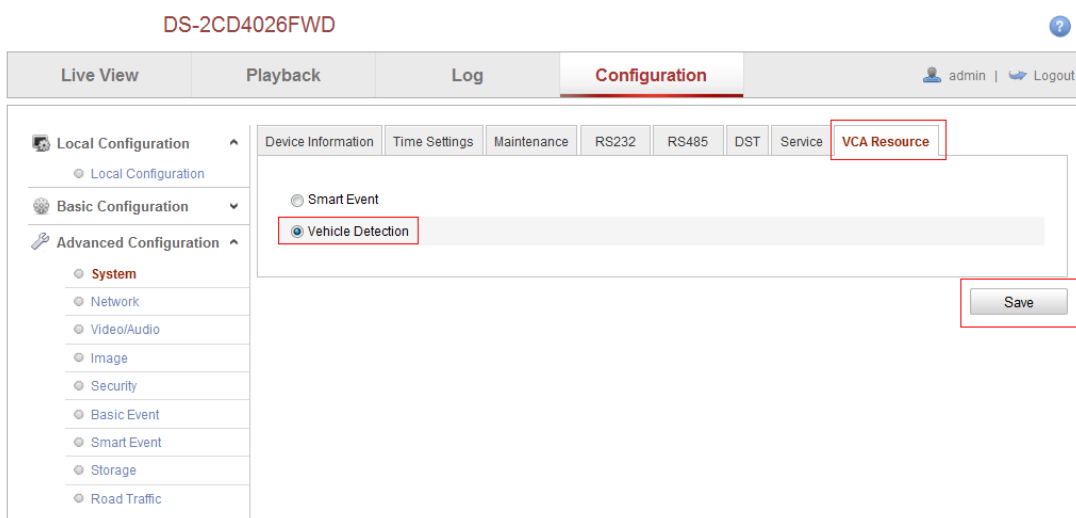
2.1 Detection configuration

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.

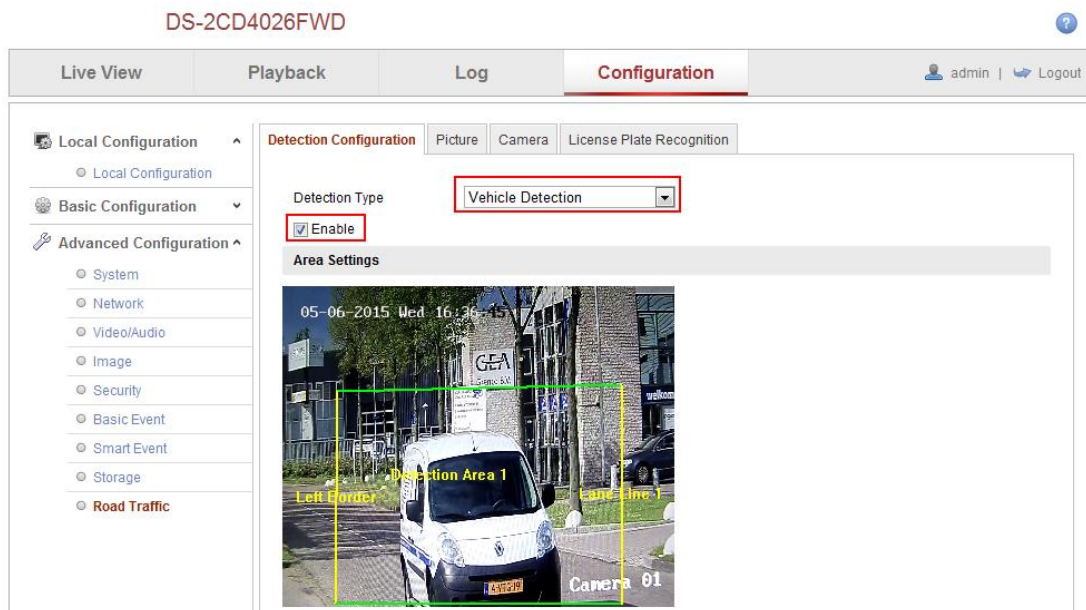
Go to **Configuration->Advanced Configuration->System->VCA Resource**

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 disabled; 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 disabled.



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

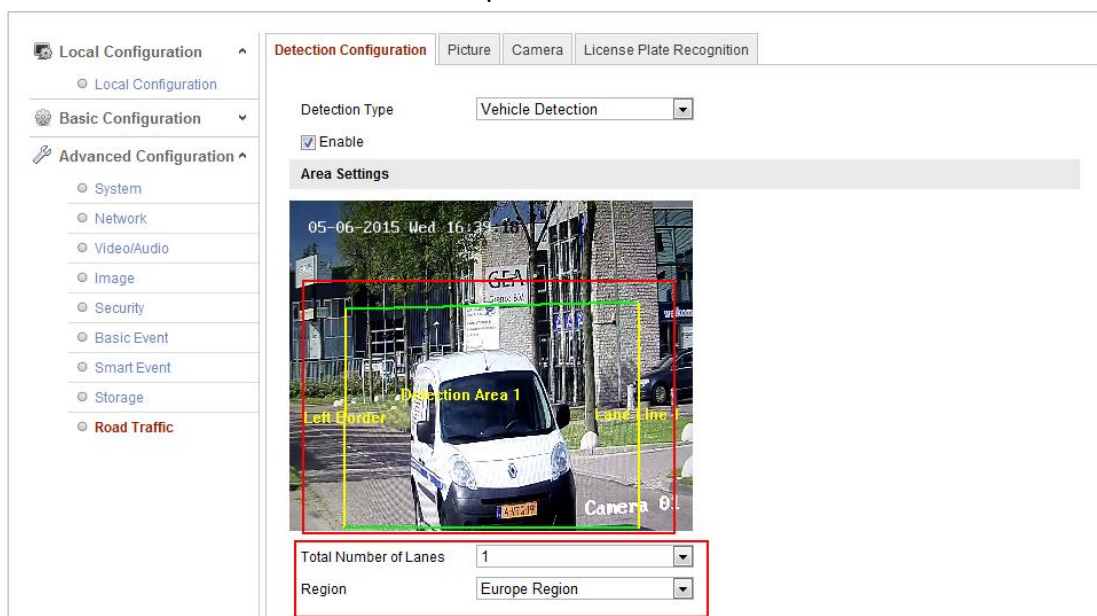


- Enable the selected detection function. Then select the lane number in the corresponding dropdown list. Up to 4 lanes are selectable.
- Click and drag the lane line to set its position, or click and drag the line end to adjust the length and angle of the line.

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.

Arming Schedule

Edit

	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon													
Tue													
Wed													
Thu													
Fri													
Sat													
Sun													

After setting the arming schedule, click the **Copy** button to copy the schedule to other days. Click the **OK** button to save the settings.

Mon

Tue

Wed

Thu

Fri

Sat

Sun

☐ All Day → 00:00~24:00
 ☒ Custom

Period	Start Time	End Time
1	00:00	24:00
2	00:00	24:00
3	00:00	00:00
4	00:00	00:00
5	00:00	00:00
6	00:00	00:00
7	00:00	00:00
8	00:00	00:00

Copy to Week ☐ All

☒ Mon
 ☐ Tue
 ☐ Wed
 ☐ Thu
 ☐ Fri
 ☐ Sat
 ☐ Sun

Copy

OK

Cancel

Note:

The time of each period cannot be overlapped.

- For the correct recognition is necessary to set the parameter of the maximum and minimum size of the license plate.

- Define the area of interest on the frame and set up it
- Measure the size of the license plate area of interest.
 - The minimum size of the license plate in ROI (LPminW)
 - The maximum size of the license plate in ROI(LPmaxW)
- Set the parameters.

License Plate Region Settings

☒ Enable License Plate Recognition

Plate Width Min 130 Max 350

Plate Width Min = LPminW rounded to tens

Plate Width Max = LPmaxW rounded to tens, but not less than 2x LPminW

9. Check the checkbox to select the linkage method. Notify surveillance center is selectable.

Linkage Method

Normal Linkage	Other Linkage
<input checked="" type="checkbox"/> Notify Surveillance Center	Trigger Alarm Output <input type="checkbox"/> All
<input type="checkbox"/> Upload to FTP	

Notify Surveillance Center:

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

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

2.2 Upload picture Configuration

1. Set the picture quality

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

2. **(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.

3. 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.

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

DS-2CD4026FWD

Live View Playback Log **Configuration** admin | Logout

Local Configuration ^

- Local Configuration

Basic Configuration v

Advanced Configuration ^

- System
- Network
- Video/Audio
- Image
- Security
- Basic Event
- Smart Event
- Storage
- Road Traffic

Detection Configuration **Picture** Camera License Plate Recognition

Picture Quality[1-100] 80

Picture Size[64-2048K] 1024

☒ Enable Text Overlay

Font Color

Background Color

Text Overlay

☒ Camera No. ☐ Camera Info. ☒ Device No. ☒ Capture Time ☒ Plate No.

Type		
Camera No.		↑ ↓
Device No.		↑ ↓
Capture Time		↑ ↓
Plate No.		↑ ↓

Save

2.3 Overlay Content Configuration

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

DS-2CD4026FWD

Live View Playback Log **Configuration** admin | Logout

Local Configuration ^

- Local Configuration

Basic Configuration v

Advanced Configuration ^

- System
- Network
- Video/Audio
- Image
- Security
- Basic Event
- Smart Event
- Storage
- Road Traffic

Detection Configuration Picture **Camera** License Plate Recognition

Device No. Camera 01

Camera No. DS-2CD4026FWD

Camera Info. EU

Save

3 Result Query

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

DS-2CD4026FWD

Live View **Playback** Log Configuration admin Logout

Status

Jan 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Search

No record file.

Download images

Set playback time

2015-01-11 00:00:00

19:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00

Command Schedule Alarm Manual

00 00 00

Vehicle Detection

Start Time

2015-01-11 00:00:00

End Time

2015-01-11 23:59:59

Plate No.

2480

Region

All

Search

Download

You will see the plate info here

No.	File Name	File Date	File Size	Progress
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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.

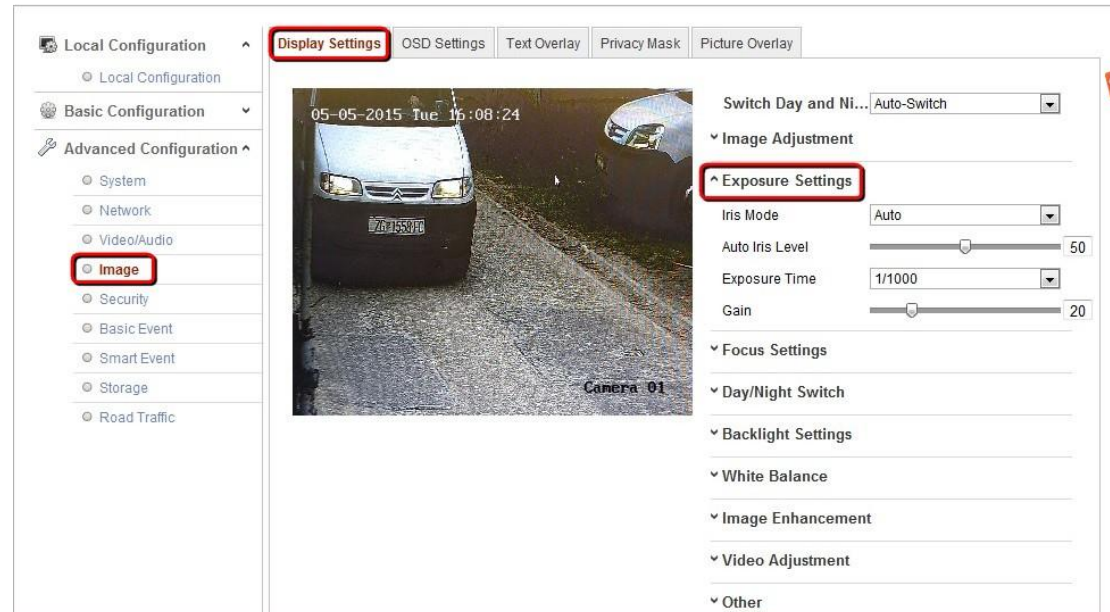
Iris Mode: Auto

Auto Iris Lever: 50

Property in copyright belongs to Hikvision.

Exposure Time: 1/1000

Gain: 20



3.2 Day/Night Switch.

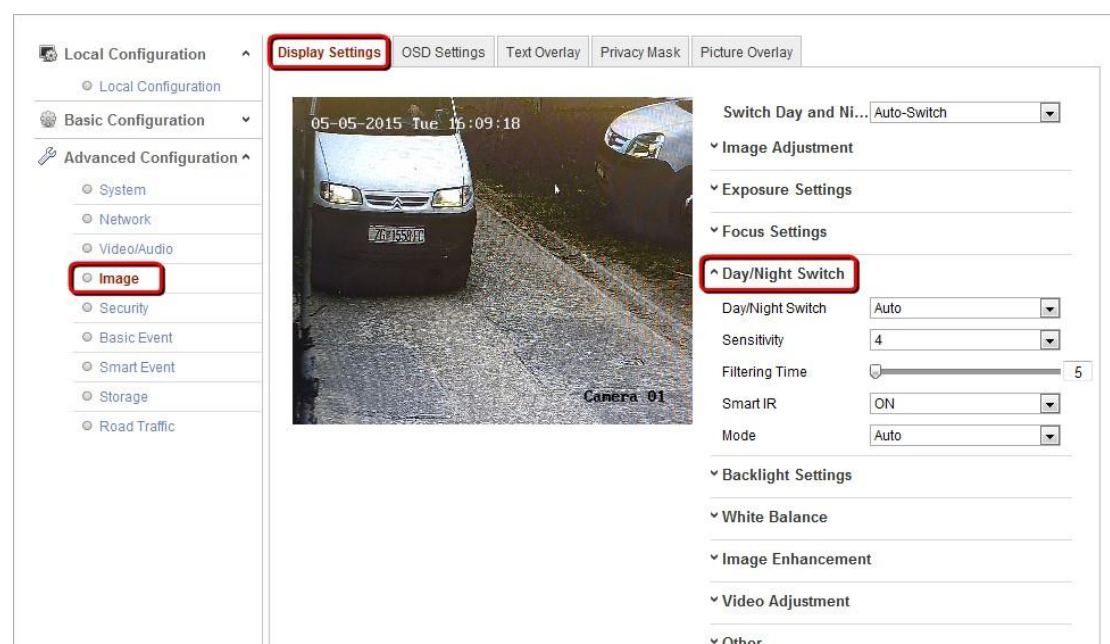
Day/Night Switch: Auto

Sensitivity: 4

Filtering Time: 5

Smart IR: ON

Mode: Auto



3.3 Backlight Settings.

BLC Area: OFF

WDR: OFF

