



Quick Configuration Guidance of AcuSense Function

HIKVISION TECHNICAL SUPPORT TEAM

10-4-2019

Configuration Guidance of AcuSense Function

This quick guide shows you how to set up an accurate perimeter guarding system and continuous/event recording with AcuSense camera, AcuSense NVR & normal NVR.

1. Basic introduction

In traditional surveillance system, all moving objects could trigger the perimeter guarding alarm, in which a large amount of false alarms are included. AcuSense is a new Hikvision deep learning algorithm which could reduce false alarms triggered by irrelevant targets, such as animals and leaves, to improve detection accuracy considerably.

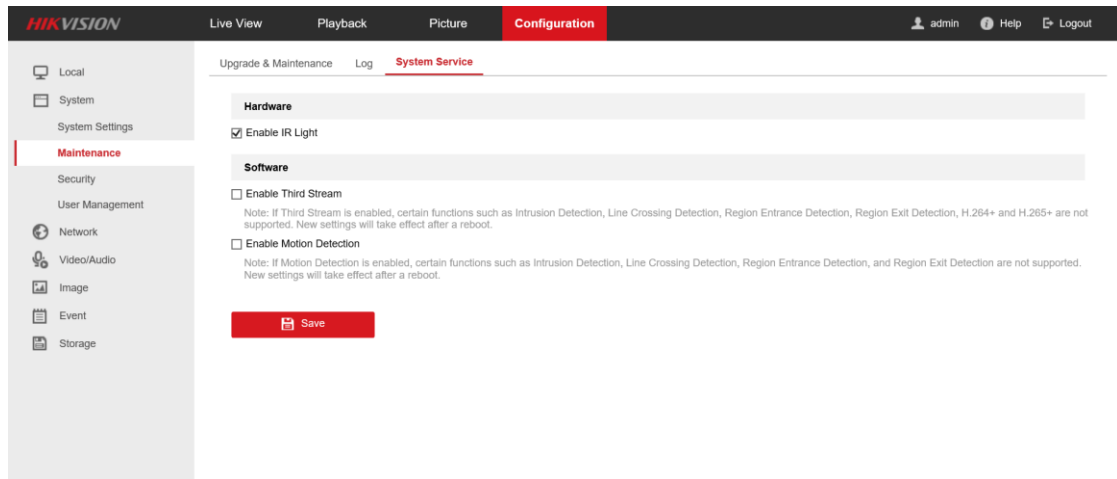
Note:

- a, The aim of the system is to reduce false alarm rate.
- b, **AcuSense cameras don't support reducing false alarm and motion detection at the same time. Motion recording DOESN'T work when AcuSense cameras work in AcuSense mode.**

2. False Alarm Reduction Configuration

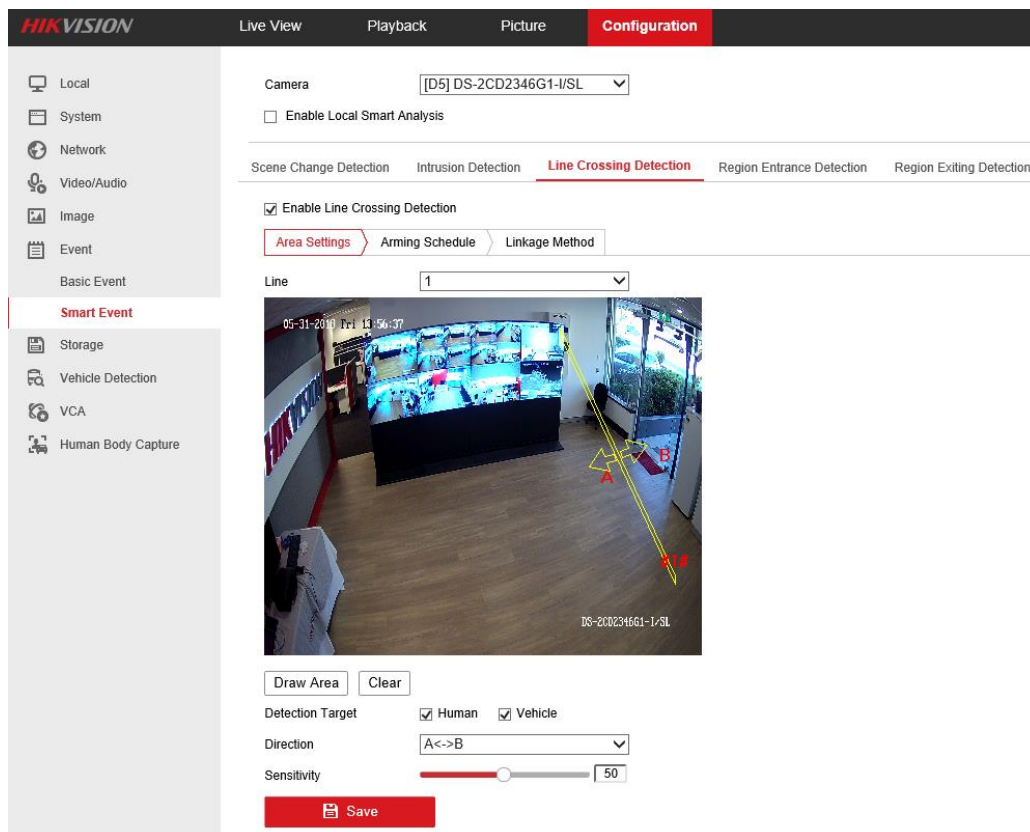
Since AcuSense camera don't support false alarm reduction and motion detection at the same time, make sure **Configuration-System-Maintenance-System Service** untick 'enable motion detection' (It is unticked by default).





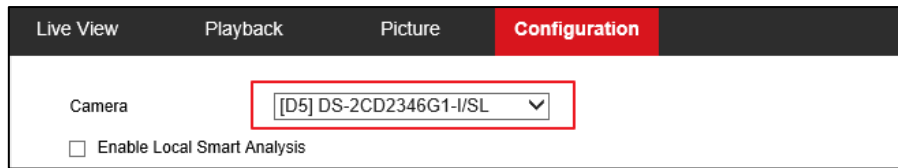
A, AcuSense camera+ AcuSense NVR

It is recommended to let AcuSense camera do false alarm reduction which could save AcuSense NVR resource for normal IPC. Please make sure this camera channel untick 'Enable Local Smart Analysis'.

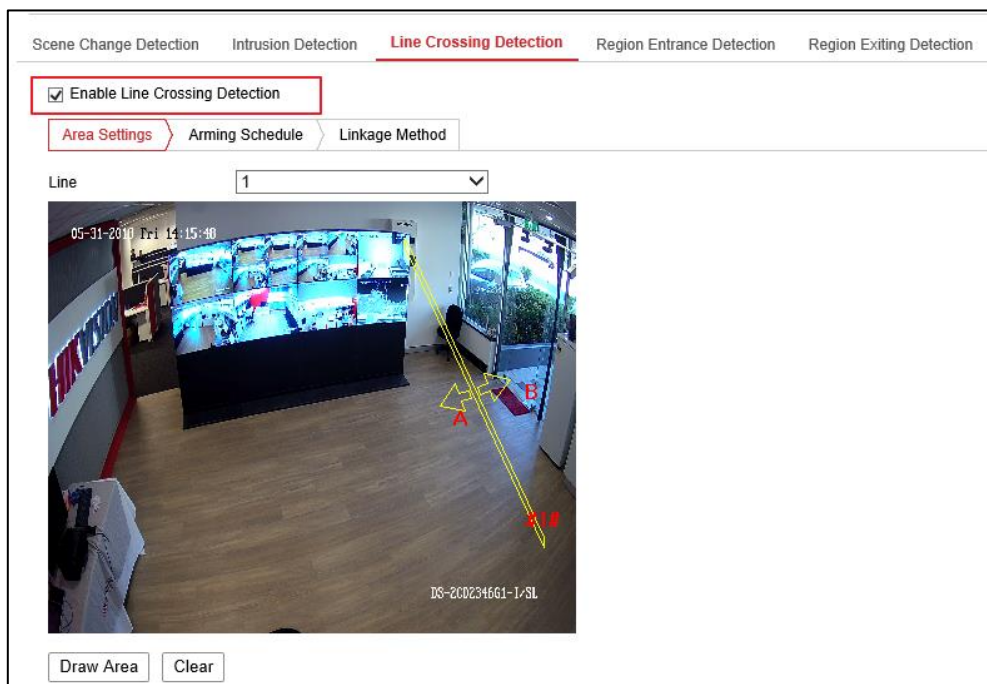


- 1) Go to NVR's web page, **Configuration—Event—Smart Event**, choose AcuSense camera channel.

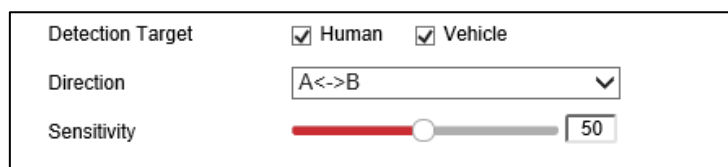




- 2) Choose and enable event that you want to detect (line crossing, region intrusion, region entrance detection or region exiting detection), draw rules.



- 3) Choose detection target(s). There are three choices: **Human**, **Vehicle** or **Human& Vehicle**. Then click save. Once the detection target is enabled, AcuSense Camera will filter false alarms based on the algorithm automatically.



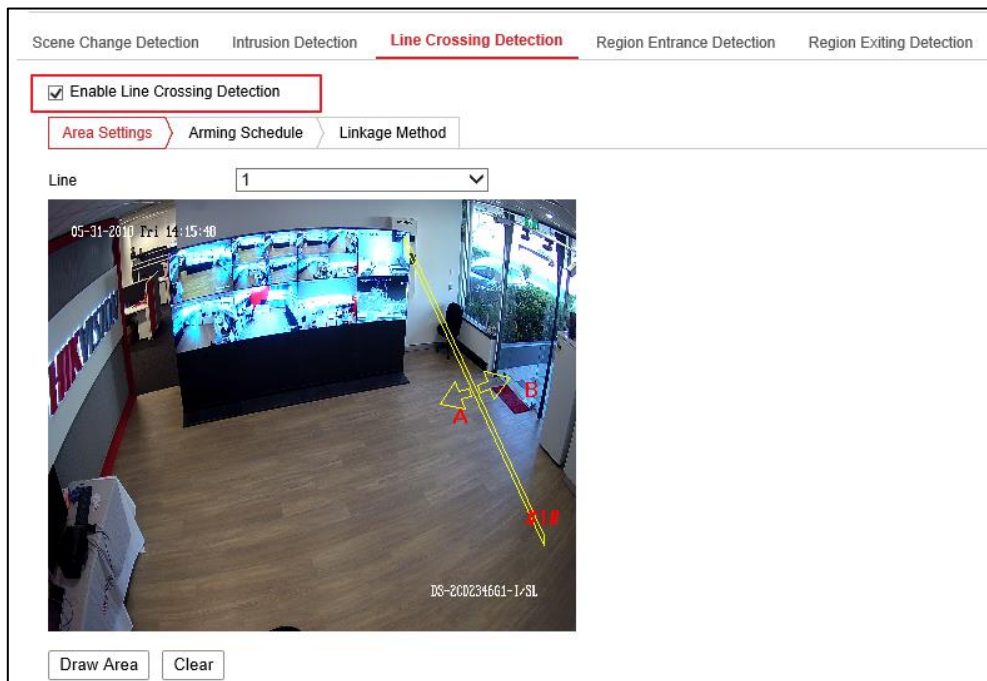
B, AcuSense IPC+ normal NVR



If NVR FW is V4.20 or above, configurations are just the same as **AcuSense camera+ AcuSense NVR**

If NVR FW is V4.1xx,

- 1) Go to NVR's web page, **Configuration—Event—Smart Event**, choose the AcuSense IPC channel.
- 2) Choose and enable event that you want to detect (line crossing, region intrusion, region entrance detection or region exiting detection), draw rules;



- 3) Go to IPC's web page, Check the target of interest. You can choose between 3 modes: **Human, Vehicle** or **Human& Vehicle**. Once the target detection is enabled, IPC will filter most of the false alarms based on the algorithm automatically.



The screenshot shows the Hikvision web interface with the 'Configuration' tab selected. The left sidebar lists various settings categories, with 'Smart Event' highlighted. The main content area is titled 'Line Crossing Detection' and includes the following options:

- Enable
- Area Settings (selected) | Arming Schedule | Linkage Method
- Line: 1
- Video preview window showing a camera feed with 'HIKVISION' logo and timestamp '25-01-2019 Sat 12:44:37'.
- Max. Size | Min. Size | Detection Area | Clear
- Detection Target: Human Vehicle
- Direction: A<->B
- Sensitivity: 50
- Save button

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C, normal IPC + AcuSense NVR

- 1) Go to NVR's web page, **Configuration—Event—Smart Event**, tick 'Enable Local Smart Analysis', NVR will do false alarm reduction.

The screenshot shows the Hikvision web interface with the 'Configuration' tab selected. The left sidebar lists various settings categories, with 'Smart Event' highlighted. The main content area is titled 'Smart Event' and includes the following options:

- Camera: [D1] DS-2CD2185FWD-IS
- Enable Local Smart Analysis
- Scene Change Detection | Face Detection | Intrusion Detection | **Line Crossing Detection**
- Enable Line Crossing Detection
- Detection Target: Human Vehicle
- Area Settings (selected) | Arming Schedule | Linkage Method
- Line: 1

- 2) Choose and enable the event you want to detect (line crossing, region intrusion), draw rules;
- 3) Choose detection target(s). There are three choices: **Human**, **Vehicle** or **Human& Vehicle**. Then click save. Once detection target is enabled,



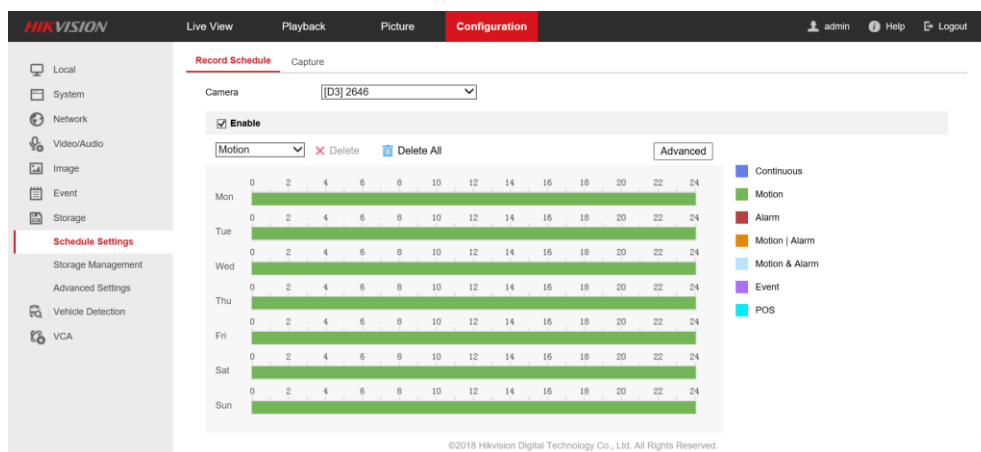
AcuSense NVR will filter false alarms based on the algorithm automatically.

Detection Target	<input checked="" type="checkbox"/> Human	<input checked="" type="checkbox"/> Vehicle
Direction	A<->B	
Sensitivity	<input type="range" value="50"/>	

3. NVR Recording Configuration

When using AcuSense IPC for false alarm filter, it doesn't support motion recording. Instead, **continuous recoding are recommended.**

- 1) Go to NVR's web page, **Configuration—Storage—Schedule Settings—Record Schedule**,





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