

### **Quick Configuration Guidance of AcuSense Function**

HIKVISION TECHNICAL SUPPORT TEAM

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## **HIKVISION** 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).





HI	VISION	Live View	Playback	Picture	Configuration	👤 admin 🕧 Help 🕞 Logout			
Ţ	Local	Upgrade & Maint	tenance Log	System Service					
	System	Hardware							
	System Settings	🗹 Enable IR I	Light						
	Maintenance								
	Security	Software							
	User Management	agement Note: If Third Stream agencies and a static functions and as latencies Datables. Lice Crassles Datables, Dat							
Ð	Network	End organist percention, region entrance percention, region end percention, reserve and resorve are not							
.O.	Video/Audio	Enable Mol	Enable Motion Detection						
	Image	New setting	gs will take effect aff	er a reboot.	uch as initiation Detect	ion, Line crossing beterion, region chirance beterion, and region cut beterion are not supported.			
	inage								
	Event	8	Save						
5	Storage								

#### 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.



Live View	Playback	Picture	Configuration			
Camera	[D5] D3	S-2CD2346G1-I/SL	~			
Enable Local Smart Analysis						

2) Choose and enable event that you want to detect (line crossing, region

intrusion, region entrance detection or region exiting detection), draw

rules.

Scene Change Detec	tion Intrusion Detection	Line Crossing Detection	Region Entrance Detection	Region Exiting Detection
Enable Line Cro	ssing Detection			
Area Settings	Arming Schedule Lir	nkage Method		
Line	1	~		
05-31-2010 Fri 13	Clear	DS-200234661-1/SL		

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.

Detection Target	🖌 Human	Vehicle	
Direction	A<->B		~
Sensitivity		0	50

#### B, AcuSense IPC+ normal NVR

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

camera+ AcuSense NVR

If NVR FW is V4.1xx,

- 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.



HI	<b>KVISION</b>	Live View	Playback	Picture	Configuration		
	Local	Scene Change D	etection Intrusion	Detection Line C	crossing Detection	Region Entrance Detection	Region Exiting Detection
Ē	System	Enable					
Ø	Network	Area Setting	Arming Schedu	Ile Linkage Meth	bd		
0.	Video/Audio	Line	1		~		
14	Image						
	Event	26-01-2019 \$	lat 12:44:37				
	Basic Event						
	Smart Event	and the second second					
6	Storage		HIKV	ISION	2646		
		Max. Size Detection Targ Direction Sensitivity	Min. Size Dete et 🗹 Hun A<>B	ction Area Clear nan Vehicle	 ■ 50		92018 Hikvision Digital Technology

#### 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.

<b>KVISION</b>	Live View Pl	layback Picture	Configuration	
Local System Network Video/Audio Image Event Basic Event	Camera  Camera	[D1] DS-2CD2185FWD- nart Analysis on Face Detection Intrusion sing Detection ↓ Human □ Vehicle Arming Schedule 〉 Linkage Met	S V Detection Line Cro	ssing Detection
Smart Event	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	🖌 Human	Vehicle	
Direction	A<->B		$\checkmark$
Sensitivity		0	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,

HI	KVISION	Live View	Playback	Picture	Configuration		👤 admin 🛛 🕧 Help	E+ Logout
Ģ	Local	Record Schedu	ale Capture					^
	System	Camera	[D3] 264	6	$\sim$			
Ð	Network	Enable						
.Q.	Video/Audio	Motion	✓ × Delete	iii Delete All		Advanced		
1	Image	0	2 4 1	8 10	12 14	16 18 20 22 24	Continuous	
圁	Event	Mon		0 10	16 19	10 10 20 22 24	Motion	
	Storage	0 Tue	2 4 6	8 10	12 14	16 18 20 22 24	Alarm	
	Schedule Settings	0	2 4 6	8 10	12 14	16 18 20 22 24	Motion   Alarm	
	Storage Management	Wed	1 7 1 7 1 7		1 7 1 7 1		Motion & Alarm	
	Advanced Settings	0 Thu	2 4 6	8 10	12 14	16 18 20 22 24	Event	
Ri	Vehicle Detection	0	2 4 6	8 10	12 14	16 18 20 22 24	POS	
63	VCA	Fri	1 1 1 1 1		1 1 1 1 1 1			
		0 Sat	2 4 6	8 10	12 14	16 18 20 22 24		
		0	2 4 8	8 10	12 14	16 18 20 22 24		
		Sun						
								¥



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