

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	0				
	Security	Software				
	User Management	Enable Thi		d certain functions such	as Intrusion Detection	Line Crossing Detection, Region Entrance Detection, Region Exit Detection, H.264+ and H.265+ are not
Ð	Network	supported.	New settings will tai	ke effect after a reboot.	us initiation betobion,	Ene orouging Decetion, region Entrance Decetion, region Entranceion, mean record and mean
<u>0</u> .	Video/Audio	Enable Mol		blad cartain functions e	uch se Intrueion Datact	ion, Line Crossing Detection, Region Entrance Detection, and Region Exit Detection are not supported.
10	Image		is will take effect aff		den as intrasion Detect	ion, Line crossing Detection, Region Entrance Detection, and Region Exit Detection are not supported.
	-					
	Event	8	Save			
8	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 L	ocal 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.

cene Change Detec	tion Intrusion Detection	Line Crossing Detection	Region Entrance Detection	Region Exiting Detection
Enable Line Cro	ssing Detection			
Area Settings	Arming Schedule	kage Method		
Line	1	~		
05-31-2010 PFI 14	:15:40	DS-200234661-1-58		

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	KVISION	Live View	Playback	Picture	Configuration		
Q	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	SION	2646		
		Max. Size Detection Targ Direction Sensitivity			 ■ 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.

KVISION	Live View Pl	layback Picture	Configuration	
Local System Network Video/Audio Image Event Basic Event	Camera Camera	on Face Detection Intrusion	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,

HIKVISION	Live	View	Playb	ack	Picture	Configuratio	n			👤 admin	👔 Help	E+ Logout
🖵 Local	Re	ecord Schedu	le Cap	ture								
System		Camera		[D3] 2646		\sim						
Network		Enable										
Video/Audio		Motion	~	× Delete	🔟 Delete All				Advanced			
🔝 Image		0		4 6	8 10	12 14	16 18	20	22 24	Continuous		
Event		Mon			0 10	12. 14	10 10	20		Motion		
Storage		0 Tue	2	4 6	8 10	12 14	16 18	20	22 24	Alarm		
Schedule Se	-	0	2	4 6	8 10	12 14	16 18	20	22 24	Motion Alarm		
Storage Mana	igement	Wed								Motion & Alarm		
Advanced Se	-	0 Thu	2	4 6	8 10	12 14	16 18	20	22 24	Event		
C Vehicle Detec	tion	0	2	4 6	. 8 . 10	12 14	16 18	20	22 24	POS		
Co VCA		Fri										
		Sat	2	4 6	8 10	12 14	16 18	20	22 24			
		0	2	4 6	8 10	12 14	16 18	20	22 24			
		Sun										
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