

How to configure VCA function

i. Intrusion Detection

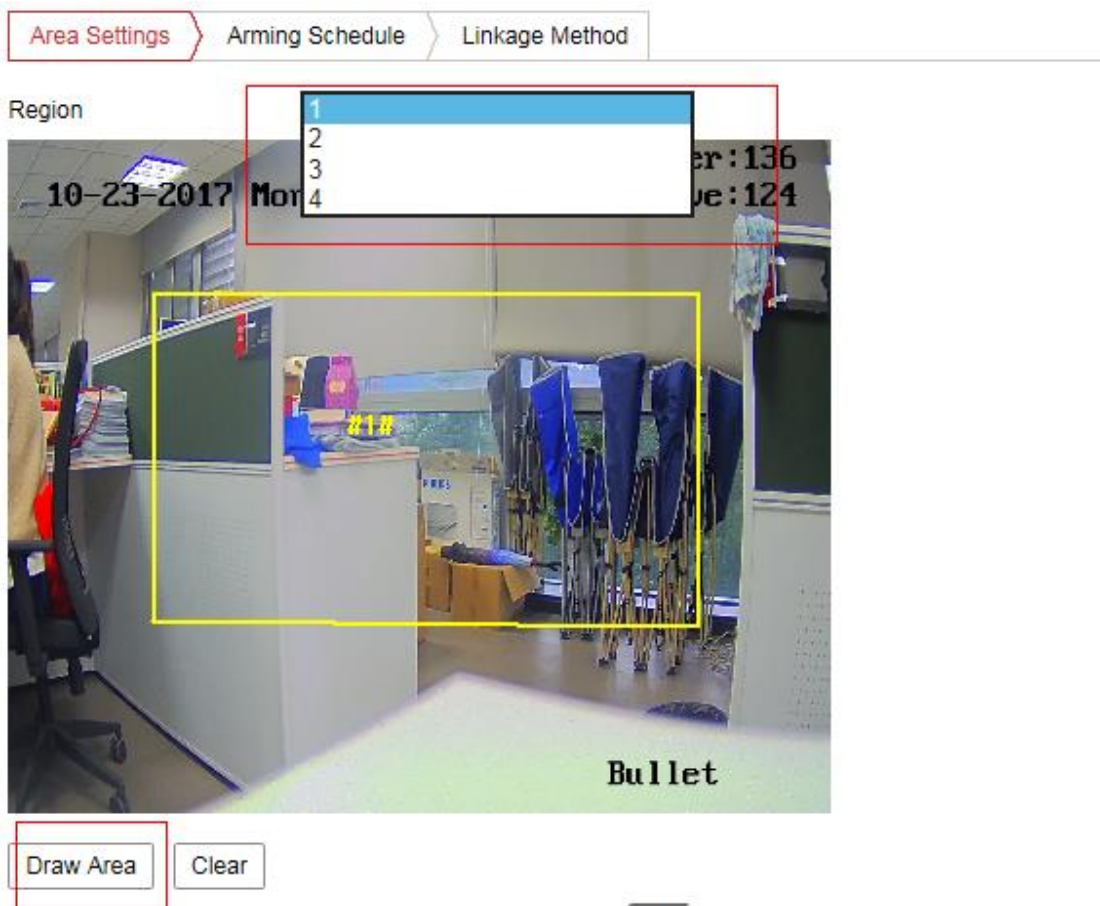
Purpose: Intrusion detection function detects people, vehicle or other objects which enter and loiter in a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Step 1: Check Enable checkbox to enable the function.

Enable

Step 2: Click Draw Area button to draw a detected region.

Note: Up to 4 regions can be drawn



Step 3: Parameter setting.

The image shows a control panel with two buttons at the top: 'Draw Area' and 'Clear'. Below them are three sliders, each with a numerical input field on the right. The sliders are labeled 'Threshold(s)', 'Sensitivity', and 'Percentage'. The 'Threshold(s)' slider is set to 5, 'Sensitivity' is set to 50, and 'Percentage' is set to 50. The sliders have a red segment on the left and a grey segment on the right, with a white knob in the middle.

Threshold (s): Range [0-10]s, the threshold for the time of the object loitering in the region. If you set the value as 0, alarm is triggered immediately after the object entering the region.

Sensitivity: Range [1-100]. The value of the sensitivity defines the size of the object which can trigger the alarm. When the sensitivity is high, a very small object can trigger the alarm.

Percentage: Range [1-100]. Percentage defines the ratio of the in-region part of the object which can trigger the alarm. For example, if the percentage is set as 50%, when the object enters the region and occupies half of the whole region, the alarm is triggered.

ii. Line Crossing Detection

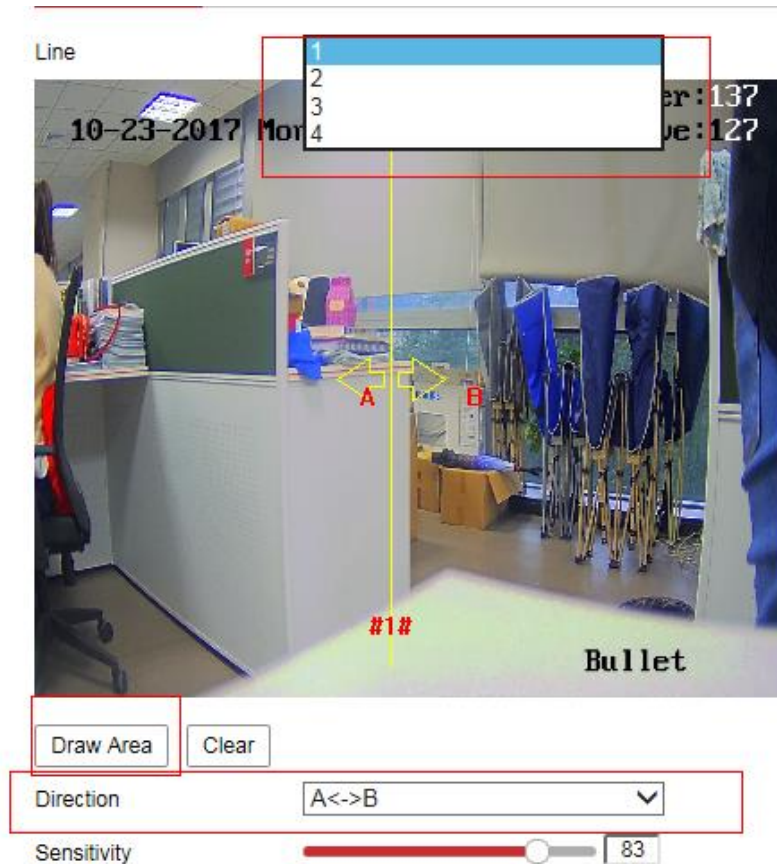
Purpose: Line crossing detection function detects people, vehicle or other objects which cross a pre-defined virtual line, and some certain actions can be taken when the alarm is triggered.

Step 1: Check Enable checkbox to enable the function.

The image shows a checkbox labeled 'Enable' with a blue checkmark inside the box. Below the checkbox is a horizontal line with a red segment on the left and a grey segment on the right, with a white knob in the middle.

Step 2: Click Draw Area button to draw a detected line and choose a direction.

Note: Up to 4 lines can be drawn



Sensitivity: Range [1-100]. The higher the value is, the more easily the line crossing action can be detected.

iii. Region Entrance/Exiting Detection

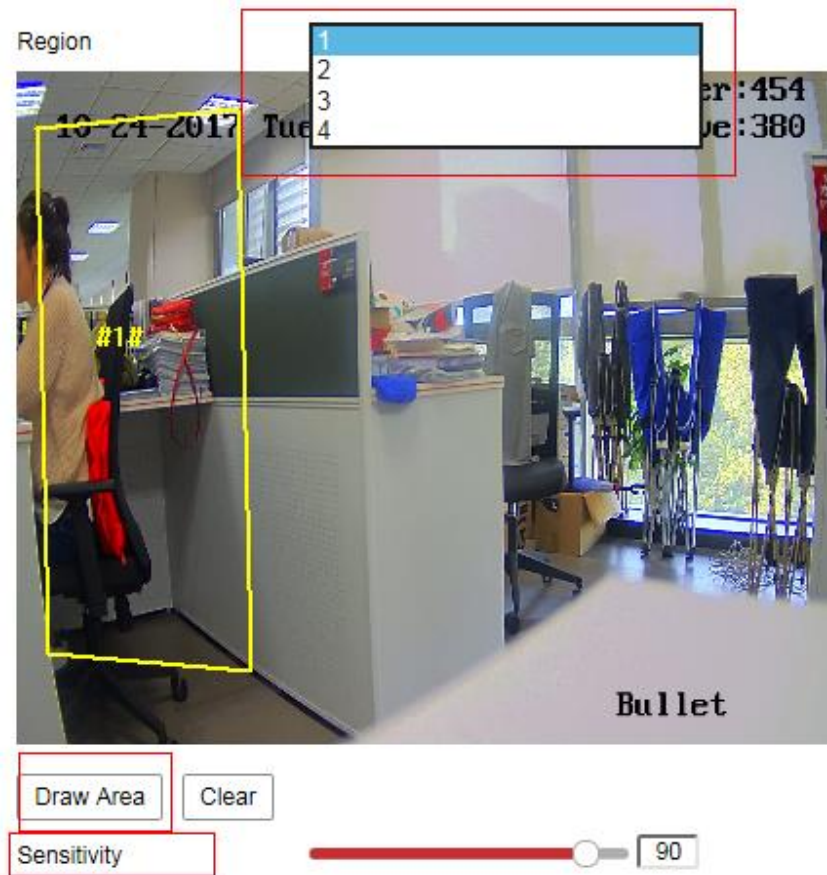
Purpose: Region entrance/Exiting detection function detects people, vehicle or other objects which enter/exit a pre-defined virtual region from the outside place, and some certain actions can be taken when the alarm is triggered.

Step 1: Check Enable checkbox to enable the function.

Enable

Step 2: Click Draw Area button to draw a detected region.

Note: Up to 4 regions can be drawn



iv. **Step 3:** Parameter setting.

Sensitivity: Range [1-100]. The value of the sensitivity defines the size of the object which can trigger the alarm. When the sensitivity is high, a very small object entering/exiting the region can trigger the alarm.

v. **Unattended Baggage/Object Removal Detection**

Purpose: Unattended baggage detection function detects the objects left over or removed from in the pre-defined region such as the baggage, purse, dangerous materials, etc., and a series of actions can be taken when the alarm is triggered.

Step 1: Check Enable checkbox to enable the function.

Enable

Step 2: Click Draw Area button to draw a detected region.

Note: Up to 4 regions can be drawn

The screenshot displays a software interface for object detection. At the top, a 'Region' list contains four numbered items (1, 2, 3, 4), with item 1 highlighted in blue. Below this is a video feed of an office scene. A yellow rectangular region is drawn on the video, containing the text '#1#'. The word 'Bullet' is visible in the bottom right corner of the video frame. Below the video, there are two buttons: 'Draw Area' (highlighted with a red box) and 'Clear'. Below the buttons are two sliders: 'Threshold(s)' with a value of 5, and 'Sensitivity' with a value of 50.

Step 3: Parameter setting.

Threshold: Range [5-20]s, the threshold for the time of the objects left over or removed from the region. If you set the value as 10, alarm is triggered after the object is left or disappears from the region for 10s.

Sensitivity: Range [1-100]. The value of the sensitivity defines the

similarity degree of the background image. Usually, when the sensitivity is high, a very small object left in or taken from the region can trigger the alarm.

vi. Audio Exception Detection

Purpose: Audio exception detection function detects the abnormal sounds in the surveillance scene, such as the sudden increase / decrease of the sound intensity, and some certain actions can be taken when the alarm is triggered.

Exception Detection

- Audio Loss Detection
- Sudden Increase of Sound Intensity Detection
 - Sensitivity
 - Sound Intensity Threshold
- Sudden Decrease of Sound Intensity Detection
 - Sensitivity

Step 1: Check the checkbox of Audio Loss Detection to enable the audio loss detection function.


Step 2: Check the checkbox of Sudden Increase/Decrease of Sound Intensity Detection to detect the sound steep rise in the surveillance scene. You can set the detection sensitivity and threshold for sound steep rise.

vii. Defocus Detection

Purpose: The image blur caused by defocus of the lens can be detected, and some certain actions can be taken when the alarm is

triggered.

Enable

Sensitivity  50

<input type="checkbox"/> Normal Linkage	<input type="checkbox"/> Trigger Alarm Output
<input type="checkbox"/> Send Email	<input type="checkbox"/> A->1
<input checked="" type="checkbox"/> Notify Surveillance Center	

Step 1: Check the checkbox of Enable to enable the function

Step 2: Set the detection sensitivity. The sensitivity value ranges from 1 to 100, and the higher the value is, the more easily the defocus image can trigger the alarm.

viii. Scene Change Detection

Enable

Sensitivity  50

Arming Schedule Linkage Method

Delete Delete All

Mon	0	2	4	6	8	10	12	14	16	18	20	22	24
Tue	0	2	4	6	8	10	12	14	16	18	20	22	24


Step 1: Check the checkbox of Enable to enable the function

Step 2: Set the detection sensitivity. The sensitivity value ranges from 1 to 100, and the higher the value is, the more easily the change of scene can trigger the alarm.



ix. Face Detection

Enable Face Detection

Enable Dynamic Analysis for Face Detection

Sensitivity 

Arming Schedule Linkage Method

 Delete  Delete All

Step 1: Check the Enable Face Detection checkbox to enable the function

Step 2: Check the checkbox of Enable Dynamic Analysis for Face Detection, and then the detected face is marked with green rectangle on the live video

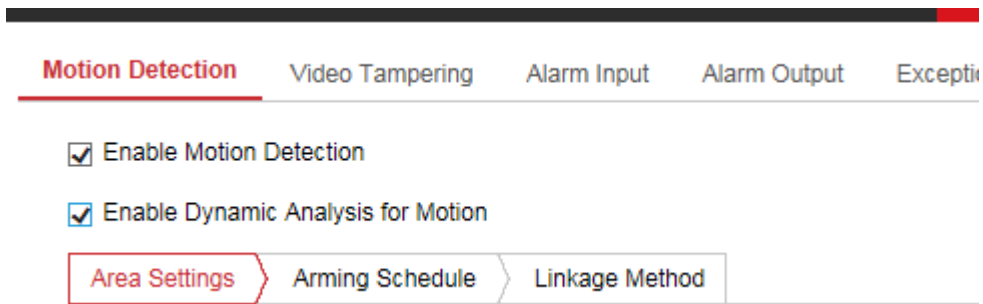
Note: To mark the detected face on the live video, go to Configuration> Local and enable the Rules.

Sensitivity: Range [1-5]. The higher the value is, the more easily the face can be detected.

x. **Motion Detection**

Purpose: It detects the moving objects in the configured surveillance area, and triggers the certain action as a respond to detection. In order to detect the moving objects accurately and reduce the false alarm rate, normal configuration and expert configuration are selectable for different motion detection environment.

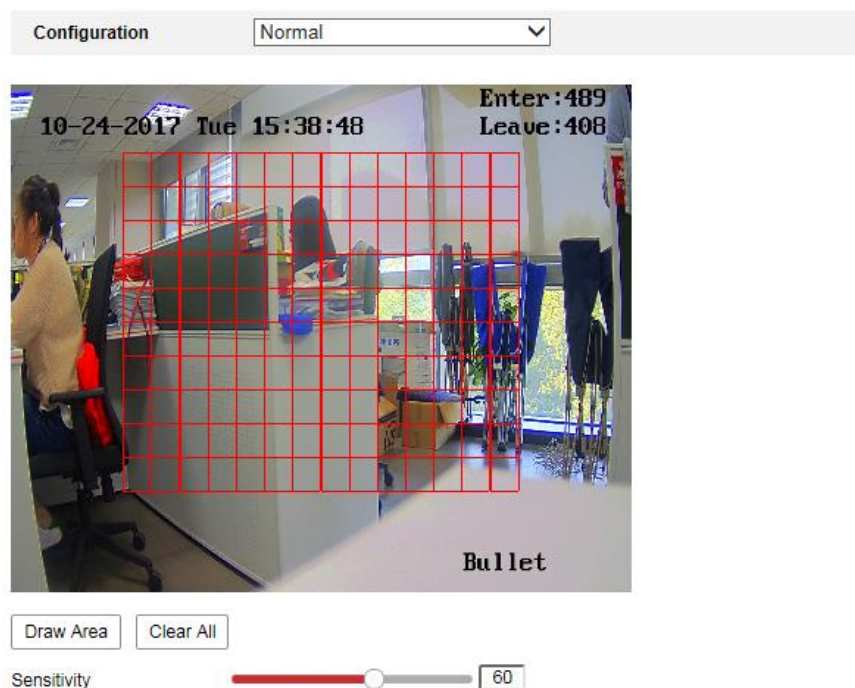
Step 1: Check the checkbox of Enable Motion Detection.



Step 2: Check the checkbox of Enable Dynamic Analysis for Motion, and then the detected motion objects are marked with green rectangles on the live video.

Note: To mark the motion objects on the live video, go to Local Configuration> Live View Parameters and enable the Rules.

Type 1: Normal Configuration



Step 1: Draw the motion detection area.

Step 2: Set the Arming Schedule for Motion Detection.

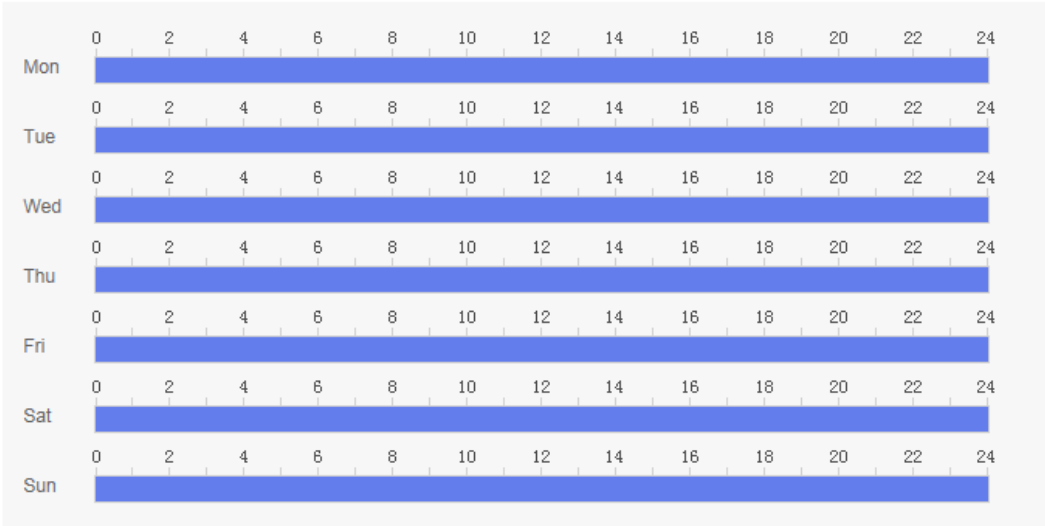
Motion Detection Video Tampering Alarm Input Alarm Output Exception

Enable Motion Detection

Enable Dynamic Analysis for Motion

Area Settings **Arming Schedule** Linkage Method

✖ Delete 🗑 Delete All



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

Step 3: Set the linkage Method for Motion Detection.

Send Email: Send an email with alarm information to a user or users when an event occurs.

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.

Enable Motion Detection

Enable Dynamic Analysis for Motion

Area Settings > Arming Schedule > **Linkage Method**

<input checked="" type="checkbox"/> Normal Linkage	<input type="checkbox"/> Trigger Alarm Output	<input type="checkbox"/> Trigger Recording
<input checked="" type="checkbox"/> Send Email	<input type="checkbox"/> A->1	<input type="checkbox"/> A1
<input checked="" type="checkbox"/> Notify Surveillance Center		
<input checked="" type="checkbox"/> Upload to FTP/Memory Card/...		

Type 2: Expert Configuration

Configuration Expert

10-25-2017 Wed 10:35:43

Enter:81
Leave:55

Bullet

Draw Area Clear All

Scheduled Image Settings Scheduled-Switch

Start Time 06:00:00

End Time 18:00:00

Area 8

Day

Sensitivity 50

Percentage 0

Night

Sensitivity 50

Percentage 0

Step 1: Draw the detection area as in the normal configuration mode. The supported area varies according to the different camera models.

Step 2: Select the mode for Switch Day and Night. 3 modes are optional: Off, Auto-Switch, Scheduled-Switch.

Scheduled Image Settings

- OFF
- Auto-Switch
- Scheduled-Switch**