

How to configure VCA of the NVR

| Title: | How to configure VCA of the NVR | Version: | v1.0 | Date: | 11/09/2023 |
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Preparation

1. Deepinmind or Acusense NVR

How to configure VCA of the NVR

1. Video Struturalization

1) Configure Engine

Log in to the web, open "configuration"——"VCA configuration"—— "Engine configuration"——select "video structuratiralization"



The local page is as follows:

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| Deepin Mind | | | |) < d | |
|-----------------------|---|-------------------------------|--------------------|-------------------------------|------------|
| Smart Search | > | Engine Configuration | Task Configuration | Face Grading | |
| Face Picture Library | | Engine Configuration ar | nd Usage | | |
| Smart Event Settings | > | Engin 33°C | Working | Engin 44°C | Working |
| Engine Settings | | Facial Recognition | * | Facial Recognition | • |
| <u>n</u> Smart Report | > | Real-time Analysis | Linked 0/B | Real-time Analysis | Linked 0/8 |
| | | Face Capture | Linked 0/4 | Face Capture | Linked 04 |
| | | < 1 | \rightarrow | < 1 ⇒ | |
| | | Engin 33°C | Working | Engin 34°C | Working |
| | | Video Structuraliza | tion - Re: 👻 | Video Structuralizatio | n - Re: 👻 |
| | | Video Structuralization - Liv | Linked 0/4 | Video Structuralization - Liv | Linked 04 |
| | | | | | |

2) Configure Rule

Open "**Configuration**"—"VCA"—"Multi-Target-Type Detection"— —select "Enable AI by Device" (It means using NVR's analytical ability), configure rule box, arming schedule and linkage method.



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| | | Live View Playback | File Applicatio | on Configuration | Display Alarm | | |
|--------------|--------------------|-----------------------------|---|---------------------|------------------|----------------------|------|
| Ģ | | Multi-Target-Type Detection | | | | | |
| = | | Camera | ID11 IPCamera 31 | ~ | | | |
| - | | Enable AI by Device | | | | | |
| e | | | | | | | |
| | | | Area Settings | Arming Schedule | Linkage Method | | |
| ¢ | | | Straw Draw | ase | | | |
| | | | 00 0 Mon | 02 04 06) | 08 10 12 14 | 16 18 20 22 | 24 |
| ନ୍ଥ | VCA ^ | | Tue | | | | |
| | | | Wed Thu | | | | |
| | Face Capture | | Fri | | | | |
| | Hard Hat Detection | | Sat | | | | |
| | | | 00 0 | D2 04 06 | 08 10 12 14 | 16 18 20 22 | 24 |
| | Multi-Target-Ty | | | | | | |
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| [m] | | | | | | | |
| 8 | Storage 🗸 🗸 | | | | | | |
| | | | | | | | |
| | | Live View Playback File | Application Co | onfiguration Displa | ay Alarm | | |
| ₽ | Local | Multi-Target-Type Detection | | | | | |
| 8 | System 🗸 | Camera [D1 |] IPCamera 31 | ~ | | | |
| Ð | Video/Audio | Enable AI by Device |) | | | | |
| Ê | Event ~ | | Area Settings Armin | ng Schedule Linka | age Method | | |
| ⊕ | Network V | | Normal Linkage | Trigger Alarm | Output Trigger R | ecording PTZ Linking | D1 ~ |
| | Image | | Buzzer | A->1 | D1 | Preset No |). |
| ନ୍ଦ | VCA ^ | | Send Email Notify Surveillance | A->2 | D2 | | |
| | Behavior Analysis | | Full Screen Monitori Audible Warning | . A->4 | D27 | Patrol No | |
| | Face Capture | | | A->6 | D29 | 1 Pattern N | ~ |

Area settings
Arming schedule

Image

Image

VcA

Behavior Analysis

Face Capture

Hard Hat Detection

Multi-Target-Ty...

Object Thrown...

Face Counting

Image Capture

Vehicle Detection

Storage

Storage

Storage

Area settings

Area settings

Area settings

Image Capture

Bard Capture

Storage

Storage

Storage

Area settings

Area settings

Area settings

Area settings

Image Capture

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Area settings

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The local page is as follows:

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| \odot | Smart Search | > | Camera | [D1] Can | nera 01 | | • 🛛 🖻 | nable AI by Device | • | | | |
| <u>.</u> | Face Picture Library | | Multi-Target-T | | | | | | | | | |
| 6 | Smart Event Settings | ~ | | | | | | | | | | |
| | Facial Recognition Perimeter Protection | | Enable Mul | ti-Target-Type Arming Sch | e Detection edule Linkag | e Action | | | | | | |
| | Vehicle Detection | | 09:12-01/1 10 | 15:20:05 | | | | | Capture Quality | Mediu | m | |
| | Video Structuralization | | | | | | | | | | | |
| | Other Events | | 0 | | | | | | | | | |
| 40 | Engine Settings | | | | | | | | | | | |
| lalla | Smart Report | > | | | 1 | C | unera Ol | | | | | |
| | | | Draw Area | Clear | | | | | | | | |
| | | | | | | | | | | | | |

2. Face capture and recognition

1) Engine switch to face recognition

Open "**Configuration**"—"VCA"—"Face Capture", Configure rule box, arming schedule and linkage method.

| | Live View | Playback File | Application | Configuration | Display / | Alarm | | 🛃 Download Plug-in 🔜 admin (|
|-------------------|----------------------|--------------------|--------------|----------------|-----------|---|-------------------------------|------------------------------|
| | Engine Configuration | Task Configuration | Face Grading | Clustering Str | ategy | | | |
| System ^ | No. | | Status | | | Mode | Max. Number of Linked Channel | Number of Linked Channel |
| | > 1 | | Running | | | Face Recognition ~ | 28 | 1 |
| | > 2 | | Running | | | Video Structuralization - Real-Time 🗸 🗸 | 24 | 1 |
| | | | | | | | | |
| | Save | | | | | | | |
| | | | | | | | | |
| VCA Configuration | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| Image | | | | | | | | |

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| | | | Camera | [D1] IPCame | ra 5 I | | | | | | | | | | | | |
|-----|--------------|--------------|---------------|-------------|--------|----------|--------|----|---------|--------|-----|----|----|----|----|----|----|
| e | | Face Capture | Shield Region | Advanced | | | | | | | | | | | | | |
| ¢ | | | | Rule | Arr | nina Scl | hedule | | Linkage | Method | | | | | | | |
| Ê | | | | | | | | | 5 | | | | | | | | |
| ⊕ | | | | Draw | 1 | Erase | 6. | 64 | h0 | 4.0 | 4.0 | | 10 | 10 | | | |
| តា | | | | Mon | 00 | 02 | Uq | | 00 | 10 | 12 | 19 | 10 | 10 | 20 | 22 | 29 |
| | | | | Tue | | | | | | | | | | | | | |
| ତ୍ର | VCA | | | Wed | | | | | | | | | | | | | |
| | | | | Thu | | | | | | | | | | | | | |
| | | | | Fri | | | | | | | | | | | | | |
| | Face Capture | | | Sat | | | | | | | | | | | | | |
| | | | | Sun | | | | | | | | | | | | | |
| | | | | | 00 | 02 | 04 | 06 | 08 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | | | | | | | | | | | | |
| | | | | Save | | | | | | | | | | | | | |
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| | | | Live View | Playback | File A | pplication | Config | uration | Display Alarm | | | |
|-----|--------------|---|--------------|---------------|------------|-------------------------------|------------|------------|---------------|---|------------------------|----|
| ⊋ | | | | Camera | [D1] IPCam | era 31 | ~ | | | | | |
| 9 | | ~ | Face Capture | Shield Region | Advanced | | | | | | | |
| 0 | | | | | Rule | Armina Sc | hedule | Linkage | Method | | | |
| Ì | | ~ | | | | | | | | | DTZ Liskiss | D1 |
| ₽ | | ~ | | | ✓ No | rmai Linkage zzer | | A->1 | Alarm Output | Trigger Recording D1 | PTZ Linking Preset No. | |
| 2 | | | | | ✓ Se | nd Email tifv Surveillance | e | A->2 | | ✓ D2 | | |
| ନ୍ଦ | VCA | ^ | | | ✓ Ful | Il Screen Monito | ori sða | A->4 | | D27 | Patrol No. | |
| | | | | | | 5 | | A->6 | | D29 | | |
| ľ | Face Capture | | | | | | | A->8 | | | Pattern No. | |
| | | | | | | | | D2-> 1 | | | | |
| | | | | | | | | D16-> 1 | | | | |
| | | | | | | | | D27-> 1 | | | | |
| | | | | | | | | D28-> 3 | | | | |
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| æ) | | | | | | _ | | | | | | |
| A | | ~ | | | Save | | | | | | | |

2) Configure Face Comparison

Compare and analyze the captured face picture and the picture in the face database to determine the similarity between the two pictures,

a. Open "**Configuration**"——"face picture library", configure face database and upload face pictures.

| | | | | Configuration Disp | | | | | 🖞 Download Plug-in 🤰 |
|-----|----------------------|----------------------------|------------------------------|---------------------------|--------|-------------|-----------|---------|----------------------|
| 8 | | → + Add 🗇 Batch Delete 🛛 🛪 | Batch Clear Q Search by Pict | ture | | | | | |
| • | | | | | | | | | |
| æ | | Strangers | FaceLib in Deeni | test0 | | group 10 14 | | | |
| | | A (2) | Add | | [| × | æ | [8] | E E |
| | | Total Normal Exception | Total | Face Picture Library Name | | | Exception | Total N | ormal Exception |
| | | 39 39 🔍 😡 | 2 | | Enable | | • | 4 | 4 0 0 |
| | | | | Customize Tag Name | | | | | |
| | | Group1 | test | | Enable | | | | |
| | | 'o' '#' '#' | "O" | | | | | | |
| | | 07. 070. | .O. | Customize Tag Name | | | | | |
| | | Total Normal Exception | Total | | Enable | | | | |
| Φ | | × 3 3 • • • | 7 ∠ □ × | Customize Tag Name | | | | | |
| 5 | | | | | Enable | | | | |
| 0 | | | | | | | | | |
| e. | | | | Customize Tag Name | | | | | |
| (#) | | | | | | | | | |
| (m) | | | | | ОК | Cancel | | | |
| 8 | | - | | | | | | | |
| II | | ~ | | | | | | | |
| Ł | Face Picture Library | | | | | | | | |

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| | | | Live | e View - F | Playback | File | Application | Configuration | Display Alarm | | |
|---|---------------------|---|------------|------------|----------|----------|-------------|--------------------|---------------|-----------|--|
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| | | | + Add | | ← Import | ⊟ Export | | Select All | | | |
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| | | | | | | | | Gend | ler Male | ~ | |
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| | | | | | | | | Contact Informatio | on | | |
| | | | | | | | | | | OK Cancel | |
| | | | Total 0 20 | 10000 24 | | | | | | | |
| | | | Iotaro 30 | /page v | | | | | | | |
| R | Face Picture Librar | , | | | | | | | | | |

b. Open "Configuration"——"Event"——"Face Comparison", configure arming schedule, linkage method and linkage face database. *Note: Enable Non-Real-Time Face Comparison means that no comparison is*

made at present, and the comparison analysis will be made when the device engine resources are sufficient.

| | | Live View Playback I | File Application Co | onfiguration Displa | iy Alarm | | |
|---------|-------------------|-----------------------------------|-----------------------|--|---------------------|---------------------|------|
| | | Camera | [D1] IPCamera 31 | ~ | | | |
| | | C Enable Non-Real-Time Face Com | | | | | |
| | | Face Comparison Stranger Detecti | on | | | | |
| | Event | ^ Enable | | | | | |
| | | Prompt for Failed Face Comparison | Compare failed | | | | |
| | | Prompt for Succeeded Face Com | Welcome | | | | |
| | Face Comparison | Enable Alarm Output Pulse | | | | | |
| | | | Arming Schedule | inkage Method (Fa | Linkage Method (Fa | Linked Face Picture | |
| | | | Normal Linkage | Trigger Alarm | Output Trigger Reco | rding PTZ Linking | D1 ~ |
| | | ~ | Buzzer | A->1 | D1 | Preset No. | |
| | | | ✓ Notify Surveillance | A->3 | D16 | | |
| | | ~ · | Audible Warning 8 | A->4 A->5 | D28 | Patrol No. | |
| - | | | | A->6 | D29 | 1 Pattern No. | |
| а. А | Vehicle Detection | | | A->8 | | 1 | |
| | | | | D2-> 1 | | | |
| | loT Channel Se | ~ | Save | | | | |

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| | | | Live View | Playback | File | Application | Configuration | Display | / Alarm | | |
|---|-----------------|---|------------------|--------------------|--------|-------------------|----------------------------|------------|----------------------------|---------------------|--|
| | | | | Camera | [D1] I | PCamera 31 | \sim | | | | |
| | | ~ | Enable Non-Real | -Time Face Com | | | | | | | |
| | | | Face Comparison | Stranger Detec | tion | | | | | | |
| Ê | Event | ^ | | Enable | | | | | | | |
| | | | Prompt for Faile | d Face Comparison | Comp | are failed | | | | | |
| | | | Prompt for Succe | eeded Face Com | Welco | ome | | | | | |
| | Face Comparison | | Enable | Alarm Output Pulse | | | | | | | |
| | | | | | An | ming Schedule | Linkage Method (F | a | Linkage Method (Fa | Linked Face Picture | |
| | | | | | | Select All (Selec | t the face picture library | to compare | e and set the similarity.) | | |
| | | ~ | | | | FaceLib in De | epi | | | | |
| | | | | | | test0928 | | | | | |
| | | ~ | | | | group 10 14 | | | | | |
| | | | | | | Group1 | | | | | |
| | | | | | | test | | | 7 | 5 🗘 | |
| | | ~ | | | - | Facial group | | | 5 | 9 🗘 | |
| | | ~ | | | Sa | ave | | | | | |

c. Stranger detection, configuration as above.

| | | | Live View | Playback | File | Application | Configuration | Display Alarm | | |
|--------------|-------------------|---|------------------|---------------------|----------|------------------|----------------------------|-------------------------------------|------|----------|
| Ģ | | | | Camera | [D1] IPC | amera 31 | ~ | | | |
| ۳ | | ~ | Enable Non-Real- | Time Face Com | | | | | | |
| Ð | | | Face Comparison | Stranger Detect | ion |] | | | | |
| Ê | Event | ^ | | Enable | | J | | | | |
| | | | F | Prompt for Stranger | Strange | r | | | | |
| | | | Enable A | Alarm Output Pulse | | | _ | | | |
| | Face Comparison | | | | Armi | ng Schedule | Linkage Method | Linked Face Picture | | |
| | | | | | S | elect All (Selec | t the face picture library | to compare and set the similarity.) | | |
| | | | | | F | aceLib in De | ері | O | - 70 | $\hat{}$ |
| | | ~ | | | ✓ te | est0928 | | O | - 70 | ¢ |
| | | | | | F | acegroup | | O | - 70 | \$ |
| ្អ | | ~ | | | ⊻ g | roup 10 14 | | 0 | - 70 | 0 |
| - () | Target Capture | | | | ✓ te | est | | 0 | 70 | ~ |
| - | Vehicle Detection | | | | F | acial group | | | 70 | ~ |
| | | | | | tt | t | | | | |
| | | | | | Save | 2 | | | | |

3) Frequently Appeared Person

When the number of appear reaches the alarm threshold within the set time, the alarm will be triggered. The stringers intelligence in the face database is used for Frequently appear person and does not support manual import. After enabling

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Frequently appear person, the device will automatically save the first stranger face snapshot of the stranger.

Notes:

a. Capture Interval: If someone appeared several times in the capture interval time, the NVR would only count that this person come once.

b. Frequency Threshold & Statistics Cycle: Frequency Threshold and Days trigger the alarm together. For example, if the same person appear 10 times during the latest 7 days, the alarm will be triggered.

c. Filter&alarm in face database: if the database is set to filter, the personnel in this database will not trigger frequency alarm.

| | | | Live View P | Playback F | ile Applica | tion | Configuration | Displa | y Alarm | |
|---------------|----------------------|---|-----------------------|----------------------|---------------------|------|---------------------|--------|-----------------|----------------|
| Ļ | | | Frequently Appeared P | erson Rarely | Appeared Person | | | | | |
| 8 | | ~ | | Enable | | | | | | |
| Ð | | | Capture In | terval (minute(s)) |) | - 1 | $\hat{\diamond}$ | | | |
| Ê | Event | ^ | Frequency | Threshold(≥Time) ⊖ |) | - 2 | \sim | | | |
| | | | Statist | iics Cycle(Day(s)) (|) | - 1 | $\hat{\diamond}$ | | | |
| | Smart Event | | | | Linked Channel | | Linked Face Picture | | Arming Schedule | Linkage Method |
| | Face Comparison | | | | Select All | | | | | |
| | People Frequency | | | | IPCamera 3 | 1 | | | | |
| | | | | | H7 Camera | | | | | |
| 0 | | ~ | | | ✓ //// ✓ IPCamera 0 | 1 | | | | |
| | | | | | ✓ IPdome 01 | | | | | |
| ନ୍ତ | VCA | ~ | | | 111 | | | | | |
| (†) | Target Capture | | | | Camera 01 | | | | | |
| (6 6) | | | | | | | | | | |
| 8 | Storage | ~ | | | | | | | | |
| m | IoT Channel Se | ~ | | | | | | | | |
| <u></u> | Face Picture Library | | | | | | | | | |
| ~ | | | | | Save | | | | | |

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| H | IKVISION | Live | View Playback Search | Applicati | on Config | uration Di | splay Alarm | | | |
|-------------|------------------|------|----------------------------|--------------|-------------|------------|-------------|-------------------|-------------------------------|---------------------|
| | | | Frequently Appeared Person | Rarely Appea | red Person | | | | | |
| | | | E | Enable 💽 | | | | | | |
| Ê | Event | | Capture Interva | al(min) () | | 10 🗘 | | | | |
| | | | Frequency Threshold(≥ | Times) () | | 1 | | | | |
| | | | Statistics Cycle(c | lay(s)) () | | 7 | | | | |
| | | | | Lin | ked Channel | Linked Fa | ce Picture | Arming Schedule | Linkage Method | |
| | People Frequency | y | | | Select All | | | | | |
| | More Events | | | | Strangers | | | | | |
| 6 | | | | |] 4 | | | Filter | | |
| 5 | | | | ~ | test2 | | | Alarm ^ | | |
| | | | | | 66 | | | | | |
| | VCA | | | | | | | | | |
| Щ. | | | | | | | | | | |
| (B) | | | | | | | | | | |
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| | | | | S | N/P | | | | | |
| | | | | | | | | ©2022 Hikvision D | igital Technology Co., Ltd. A | Il Rights Reserved. |

| | | | Live View | Playback | Fil | e Applicatio | n Conf | figuration | Display Alar | | |
|----------|----------------------|---|---------------------|----------------|-------------|----------------------|-------------------|------------------|----------------|-------------|----------------|
| Ģ | | | Frequently Appeared | d Person | Rarely A | Appeared Person | | | | | |
| 8 | | ~ | | | Enable | D | | | | | |
| Ð | Video/Audio | | Capture | e Interval (mi | nute(s)) 🔾- | | 1 | $\hat{\diamond}$ | | | |
| Ê | Event | ^ | Frequen | cy Threshold | (≥Time) ⊖- | | 2 | $\hat{\diamond}$ | | | |
| | | | Sta | tistics Cycle(| Day(s)) 🔾- | | 1 | \sim | | | |
| | Smart Event | | | | | Linked Channel | Linke | d Face Picture | Armi | ng Schedule | Linkage Method |
| | Face Comparison | | | | | Normal Linka | ge | Trigge | r Alarm Output | Trigg | er Recording |
| | People Frequency | | | | | Buzzer Send Email | | A->1 | | □ D1 ✓ D2 | |
| | | | | | | ✓ Notify Surveil | lance Ionitori | A->3 | | ✓ D16 | |
| ⊕ | | ~ | | | | | | □ A->5 | | D28 | |
| | | | | | | | | A->7 | | D29 | |
| ନ୍ଥ | VCA | ~ | | | | | | A->8 | 1 | | |
| ·•• | Target Capture | | | | | | | D2-> 1 | 1 2 | | |
| <u> </u> | Vahiela Dataction | | | | | | | D16-> | 1 | | |
| ~ | | | | | | | | D27-> | 1 | | |
| | Storage | ~ | | | | | | D28-> | 3 | | |
| | loT Channel Se | ~ | | | | | | D29-> | 1 | | |
| | Face Picture Library | | | | | Save | | | | | |
| | | | | | | | | | | | |

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3. Perimeter protection configuration

Switch engine to primeter protection

| | | File Application Configuration Display A | | | 🕹 Download Plug is |
|--------------------|--------------------------------|--|-----------------------------|-------------------------------|-------------------------|
| 🖵 Local | Engine Configuration Task Conf | iguration Face Grading Clustering Strategy | | | |
| 🖻 System 🔨 | No. | Status | Mode | Max. Number of Linked Channel | Number of Linked Channe |
| System Settings | > 1 | Running | Object Thrown from Building | ~ 8 | 1 |
| Maintenance | > 2 | Running | Perimeter Protection | ~ 40 | - |
| Security | | | | | |
| User Management | Save | | | | |
| Camera Management | | | | | |
| VCA Configuration | | | | | |
| Live View Settings | | | | | |
| Audio Management | | | | | |
| e Video/Audio | | | | | |
| 🖹 Event 🗸 | | | | | |
| Network ~ | | | | | |

Open "Configuration"——"event"——"smart event"

1) Intrusion Detection

Enable "Enable AI by device" and "Enable intrusion detection", configure the rule box and the maximum and minimum detection boxes (used to detect the target larger than the minimum box and smaller than the maximum box), and check the person and vehicle to filter out the non-person and vehicle alarms.



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| | | Live View Playback | File Application Configuration Display Alarm | 🛃 Download Plug-in 🙎 admin 🕕 Help 🖪 |
|--|--|---|---|---|
| 🗄 Sys | | Camera | [D2] H7 Camera V | |
| 🖾 Vide | | Enable AI by Device | | |
| 🖻 Eve | | Shield Region Audio Exception De | tection Defocus Detection Scene Change Detection Intrusion Detection Line Crossing Det | tection Region Entrance Detection Region Exiting Detection |
| Bas | | Enable Intrusion Detection | | |
| Sm | art Event | | Area Settings Arming Schedule Linkage Method | |
| Fac | | | | |
| Pec | | | Oraw Prase 00 02 04 06 08 10 12 14 16 18 20 22 24 | |
| Mor | | | Mon Tue | |
| Net | | | Wed | |
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2) Line Crossing Detection

When crossing a regular line, an alarm will be triggered, and the direction of crossing the line can be set. The specific configuration is the same as above (intrusion detection).

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3) Region Entrance Detection

The alarm will only be triggered when entering the rule box from outside the rule box. Refer to intrusion detection the specific configuration.



4) Region Exiting Detection

The alarm will be only triggered when you leave the rule box from the rule box.

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Refer to intrusion detection for specific configuration.

