Occupancy Monitoring Solution

Overview

To avoid overcrowding and to ensure compliance with maximum occupancy requirements, businesses such as supermarkets need to carefully manage the number of people who are inside at one time.

Hikvision's Occupancy Monitoring Solution uses video analysis technology based on deep-learning to help businesses easily manage occupancy levels in a store or building without interfering with business operations or the customer experience.

Functions Introduction

01 **Display the Number of People Staying**

The camera counts and displays the number of people entering, exiting and staying, all in real time.

02 **Overcrowded Alert**

The camera alerts when the number of people in a venue exceeds the threshold.

The camera immediately sends the alarm notification to the alarm-out interface.

03 **Audio Alert**

The camera's audio alert issues a warning when a venue's occupancy threshold is exceeded. Audio message and language can be customized.

Product Showcase

DS-2CD6825G0/C-IVS
FW: 5.5.90_200507

- 1920 × 1080 @ 30fps, 2 mm fixed lens
- 3D binocular stereo vision and deep learning algorithm improve the accuracy of people counting
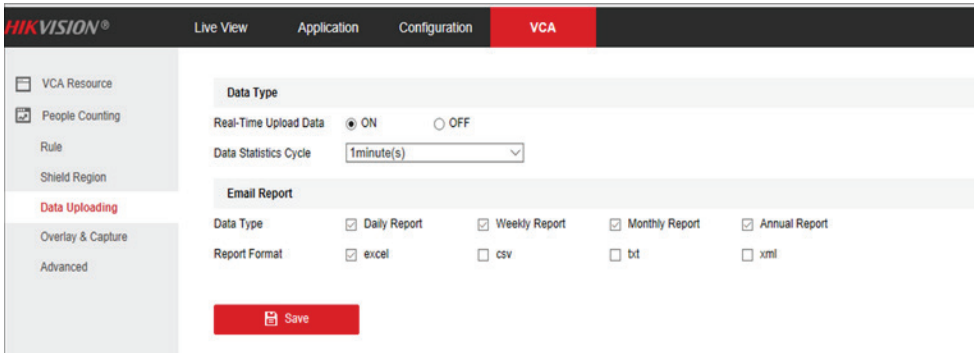- Reverse alarm
- Filters targets by height

DS-7608NI-I2/8P
FW: V4.40.010_200606

- Up to 8 IP Cameras Can Be Connected
- 80 Mbps Incoming Bandwidth
- 80 Mbps/256 Mbps
- HDMI Video Output up to 4K (3840 × 2160)
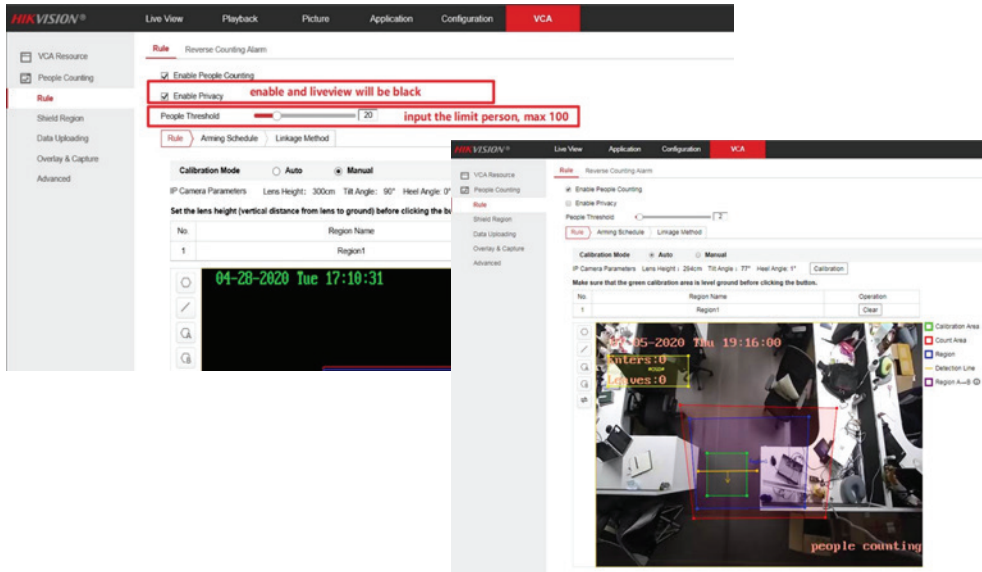- Multi-group management

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Product Model: DS-2CD6825G0/C-IVS

Product Firmware: 5.5.90_200507

Configuration :
Go to VCA->People Counting->Data Uploading, be sure to turn on real-time upload data.


- Click "Rule" tab to enable People Counting and set up counting rule on the image. Refer to the picture below.
- Enable privacy to make the live view image black on the monitor.
- Set up people threshold which is the maximum number of people allowed in a venue.
- Note: When threshold is reached, alert and audio are triggered automatically.
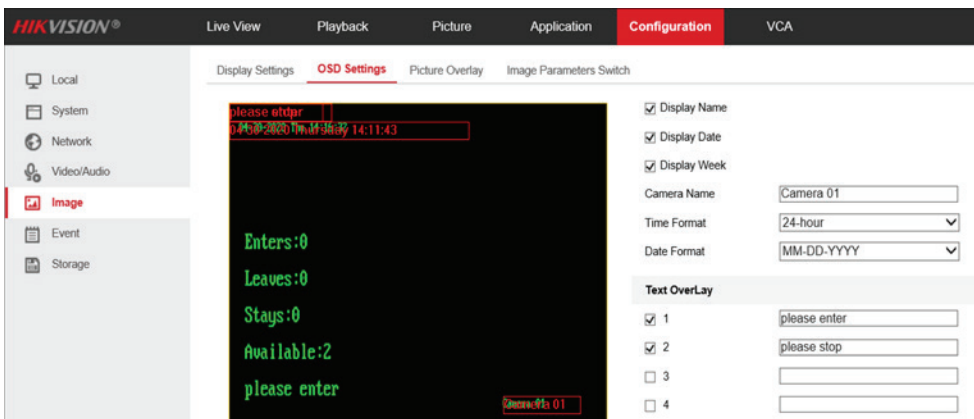
Under Text Overlay filed, input the description to be shown on the monitor. Refer to the picture on the left.

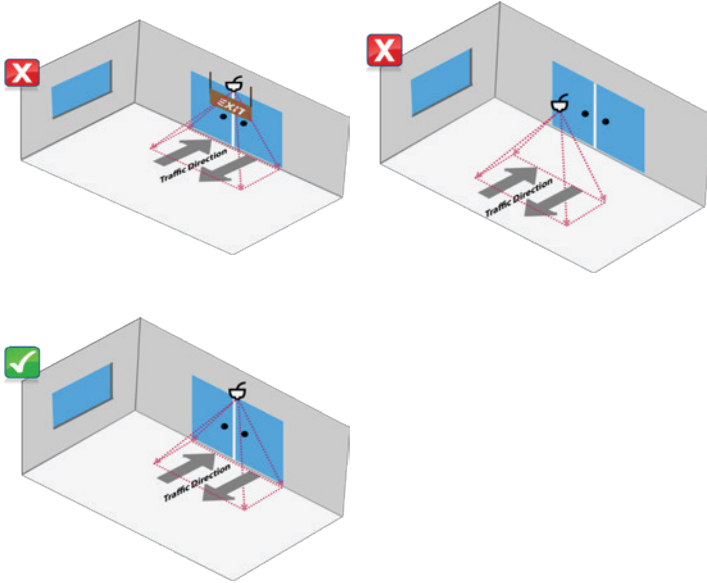Field 1: the content will be displayed when the threshold is not reached

Field 2: the content will be displayed when the threshold is reached
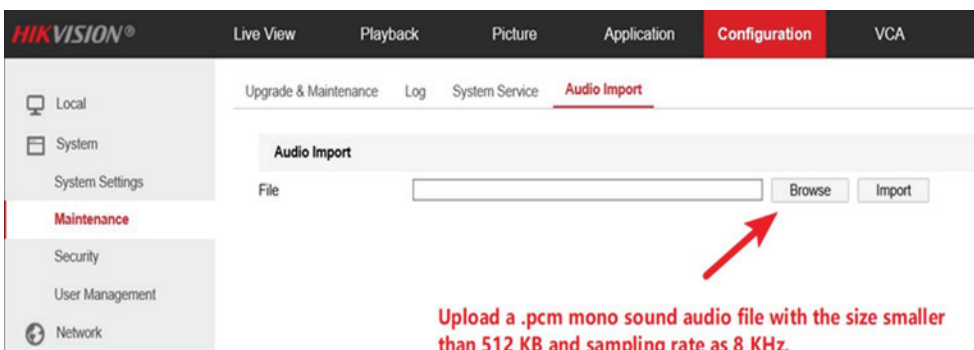
(Optional) Upload audio file if you don't want to use the default audio content "Please stop entering."
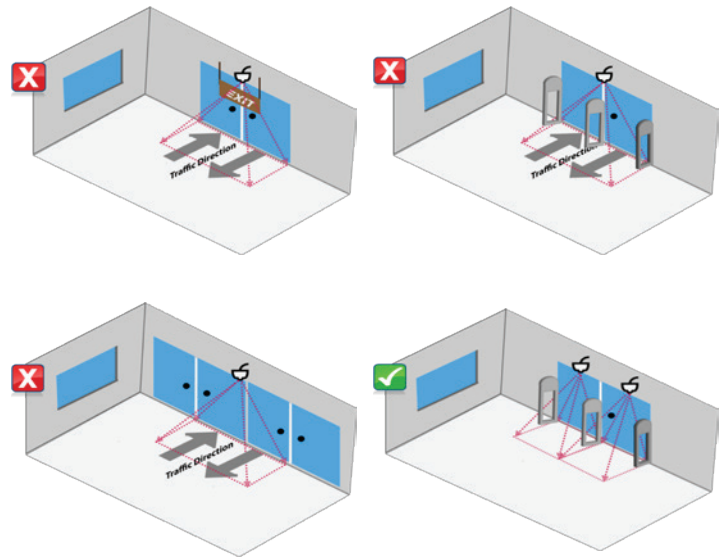
Note: Make sure the audio file meets these standards on the screen.

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Choose the right position

- The camera should be installed in the middle of entrance door.
- The lens should be installed at a 90° to the ground to ensure accuracy.
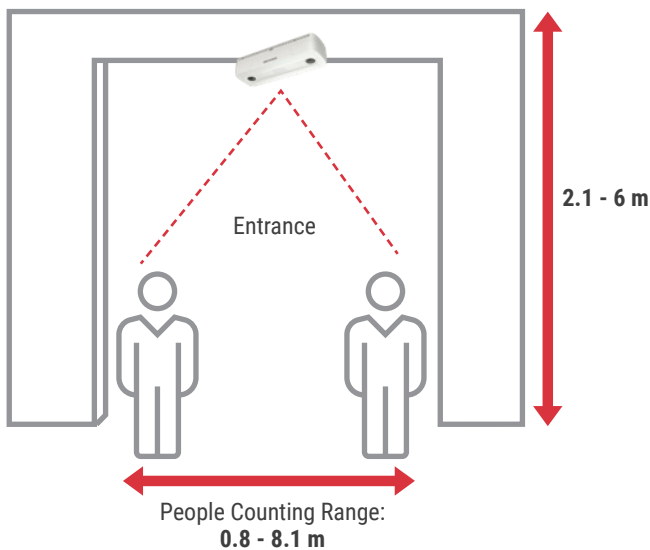
Define the camera number

The number of cameras should be increased if:

- There are obstacles or multiple doors in the application.
- The door is wider than the camera's effective coverage.
- The camera's effective coverage is limited by the following graph instead of camera's physical FoV

Indoor & Outdoor Model

Entrance

2.1 - 6 m

People Counting Range:
0.8 - 8.1 m

Mounting Height

Mounting Height (m)	Max. Detection Width (m)
2.1	0.8
2.6	2.1
3.1	3.4
3.6	4.6
4.1	5.9
4.6	5.4
5.1	6.3
5.6	7.3
6	8.1
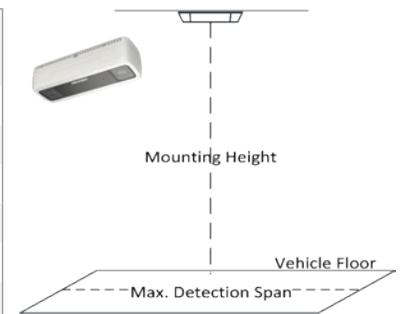
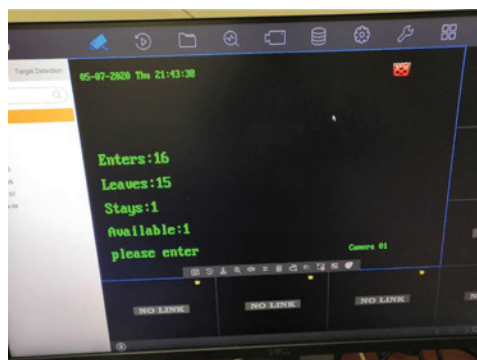Table shows mounting height and maximum-detection span examples.

Mounting Height

Vehicle Floor

Max. Detection Span

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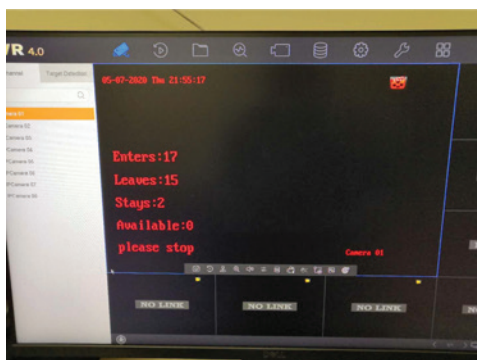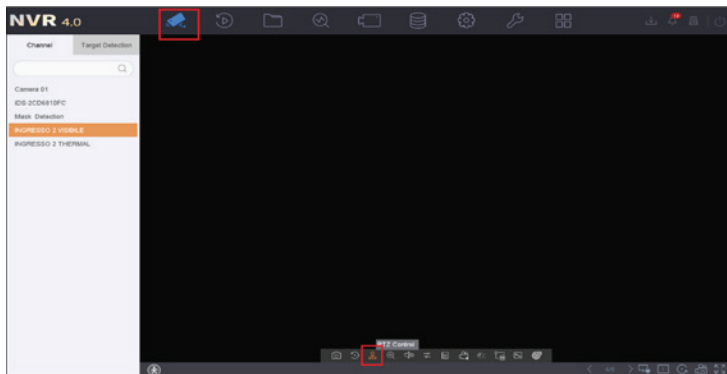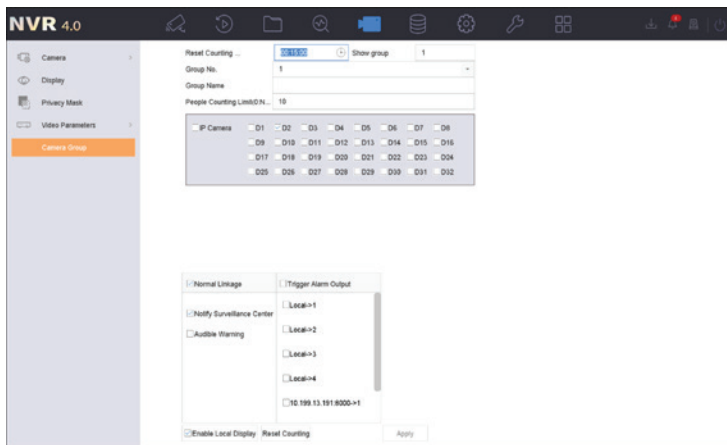
Product Model:
DS-2CD6825G0/C-IVS
I series NVR

Product Firmware:
Camera: V5.5.90_200430
NVR: V4.40.010_200606

Configuration:

- Login to NVR local GUI to set up people counting group and rule.
- Show group: Define which group you want to display on the monitor. If you configured multiple groups, group 1 is selected by default.
- Define group number, name and people-counting limit, which is the maximum number of people allowed in a venue. When the number of people meets or exceed the maximum capacity, an alert will be triggered.
- Select people-counting camera(s)
- (Optional) Check the alarm output box to trigger alarm output from NVR or camera if it's connected to strobe light or speaker.
- Note: Once triggered, the alarm output signal will not stop until the alarm stops.

- (Optional) Enable Local Display. This will show the available capacity on the camera image, so that you can live-view the number from anywhere.
- (Optional) Modify the people counting number manually if it's not accurate. Be sure to click "Set People Num" button after you input the actual enter and/or exit number.
- Note: This function requires the same customized camera firmware as the reset counting feature that step three requires.
- Go to NVR local GUI->Live View, click the human icon on the bottom left corner to show density control information.