Dahua SMB
Safety Protection Solution

A safe solution for the new normal

People Flow Control   Temperature Monitoring   Social Distancing Reminder
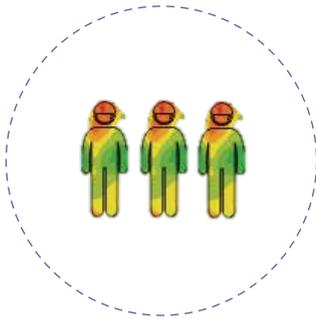
Solution Background

In order to support the smooth resumption of businesses, work and school classes, Dahua launched its SMB Safety Protection Solution.

Solution Overview
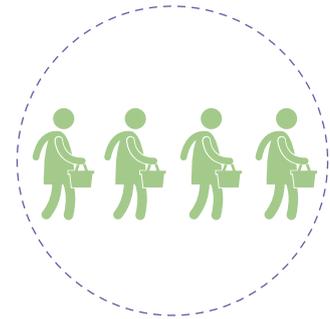
- SMB Safety Protection Solution

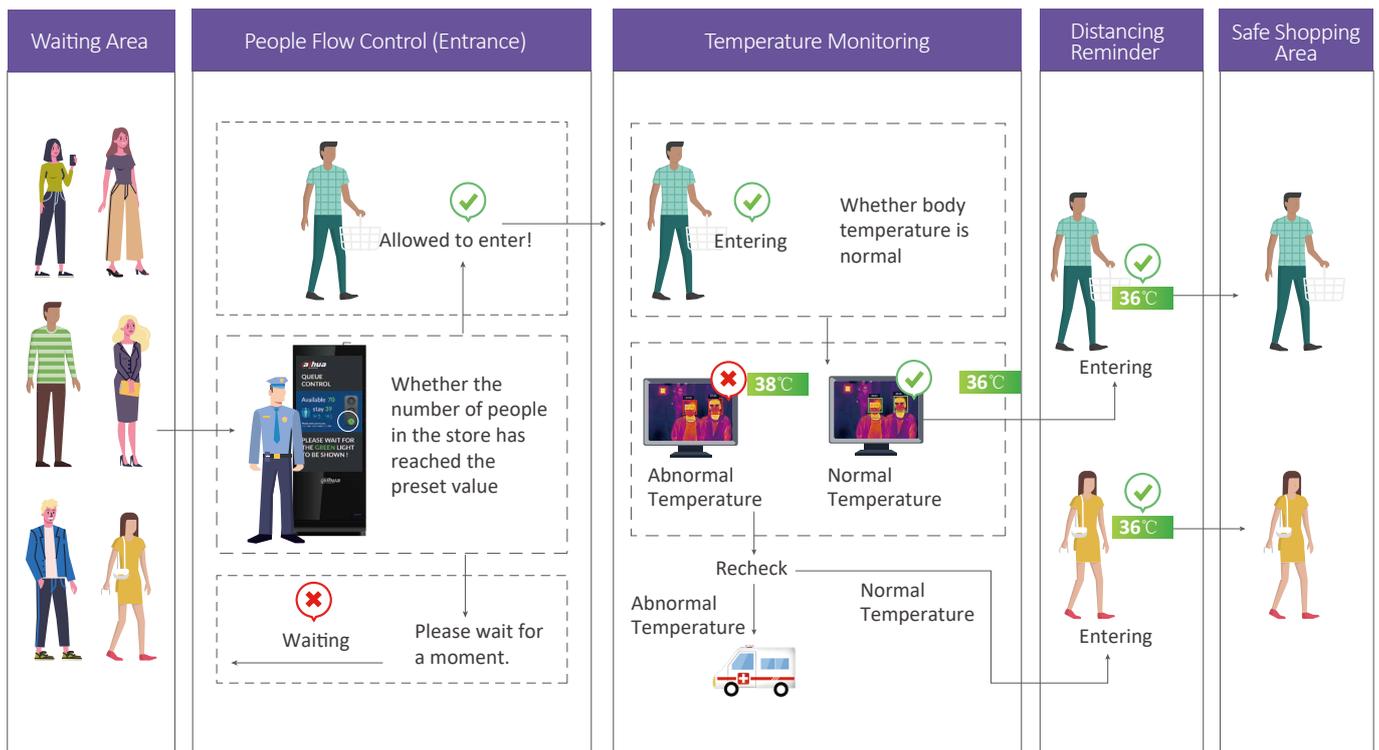The SMB Safety Protection Solution can be divided into multiple solutions to meet different requirements.
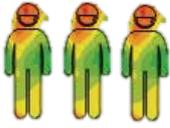
Temperature Monitoring Solution

People Flow Control Solution

Social Distancing Reminder Solution

Waiting Area	People Flow Control (Entrance)	Temperature Monitoring	Distancing Reminder	Safe Shopping Area

People Flow Control (Entrance)

Allowed to enter!

Whether the number of people in the store has reached the preset value

Please wait for a moment.

Waiting

Temperature Monitoring

Entering

Whether body temperature is normal

38℃ Abnormal Temperature

36℃ Normal Temperature

Recheck

Abnormal Temperature

Normal Temperature

Distancing Reminder

36℃ Entering

36℃ Entering

- Solution Highlights

Temperature Monitoring Solution	People Flow Control Solution	Social Distancing Reminder Solution
Only normal skin temperature individuals can enter the facility.	Once the number of people in the facility reaches the preset value, immediately notify the staff.	Remind people to keep distance.
• Monitor body temperature.	• Limit the number of people inside the facility.	• Avoid close and physical contact.

DSS Express

NVR5216-4KS2

Door1	Door2	Door16	Check out counter
TPC-BF2221	TPC-BF2221	TPC-BF2221	IPC-HDW8341X-BV-3D
IPC-HFW5442E-ZE	IPC-HFW5442E-ZE	IPC-HFW5442E-ZE	
Or	Or	Or	
Blackbody	Blackbody	Blackbody	Siren (Optional,Purchased By Customer)
ASI7213X-T1+ ASF172X-T1	ASI7213X-T1+ ASF172X-T1	ASI7213X-T1+ ASF172X-T1	
LDV55-SAI200	LDV55-SAI200	LDV55-SAI200	

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- Application Scenarios

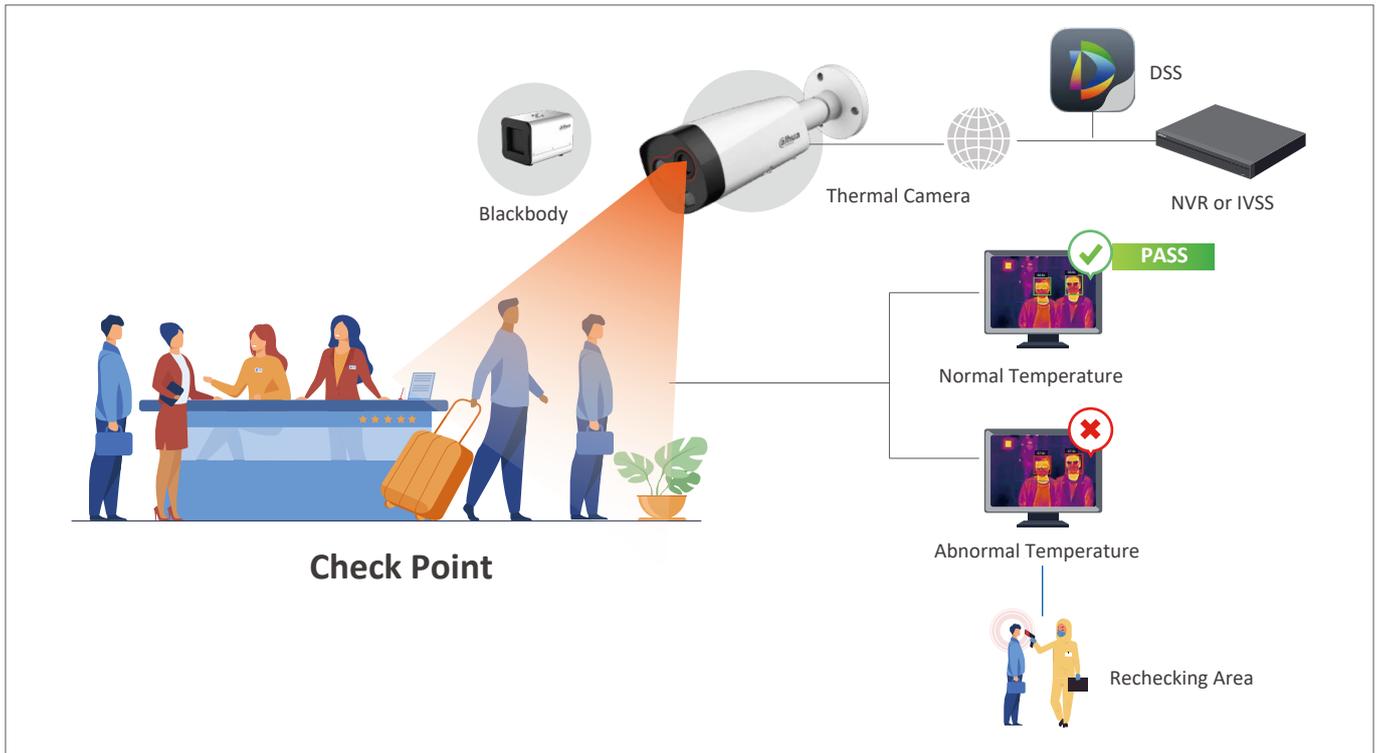| Factory	Supermarket	Shopping Mall	School

Temperature Monitoring Solution - Thermal

This solution ensures that the temperature of the people entering the area is normal. It detects body temperature in real-time. When the temperature reaches the threshold, an alert notification will pop on the screen and the sound alarm will be triggered at the same time. This solution also supports several kinds of display devices.

- **Check Point**

Blackbody

Thermal Camera

DSS

NVR or IVSS

PASS

Normal Temperature

Abnormal Temperature

Rechecking Area

- Solution Highlights

- Provides safe, efficient and accurate temperature monitoring
- Offers non-contact monitoring with up to 3 meters in distance, allowing quick passage
- Supports multi-person detection of up to 30 targets at the same time
- Supports visual abnormal alert to facilitate back-tracking
- Features non-mask detection for intelligent control with face mask detection rate of >95%

• Application Scenarios

Bank Entrance	Hospital Entrance	Shopping Mall Entrance	Supermarket Entrance
Office Building Entrance	Metro Station Entrance	Factory Entrance	School Entrance

• Product Selection

DH-TPC-BF2221   with Blackbody
- Built-in white light and speaker alarm
- Temperature monitoring accuracy: ±0.3°C, with blackbody

DHI-NVR5216-16P-I
- Supports real-time display
- Supports data statistics and report export
- Supports alarm pop-up
- Supports data history backtracking
- Supports no face mask reminder
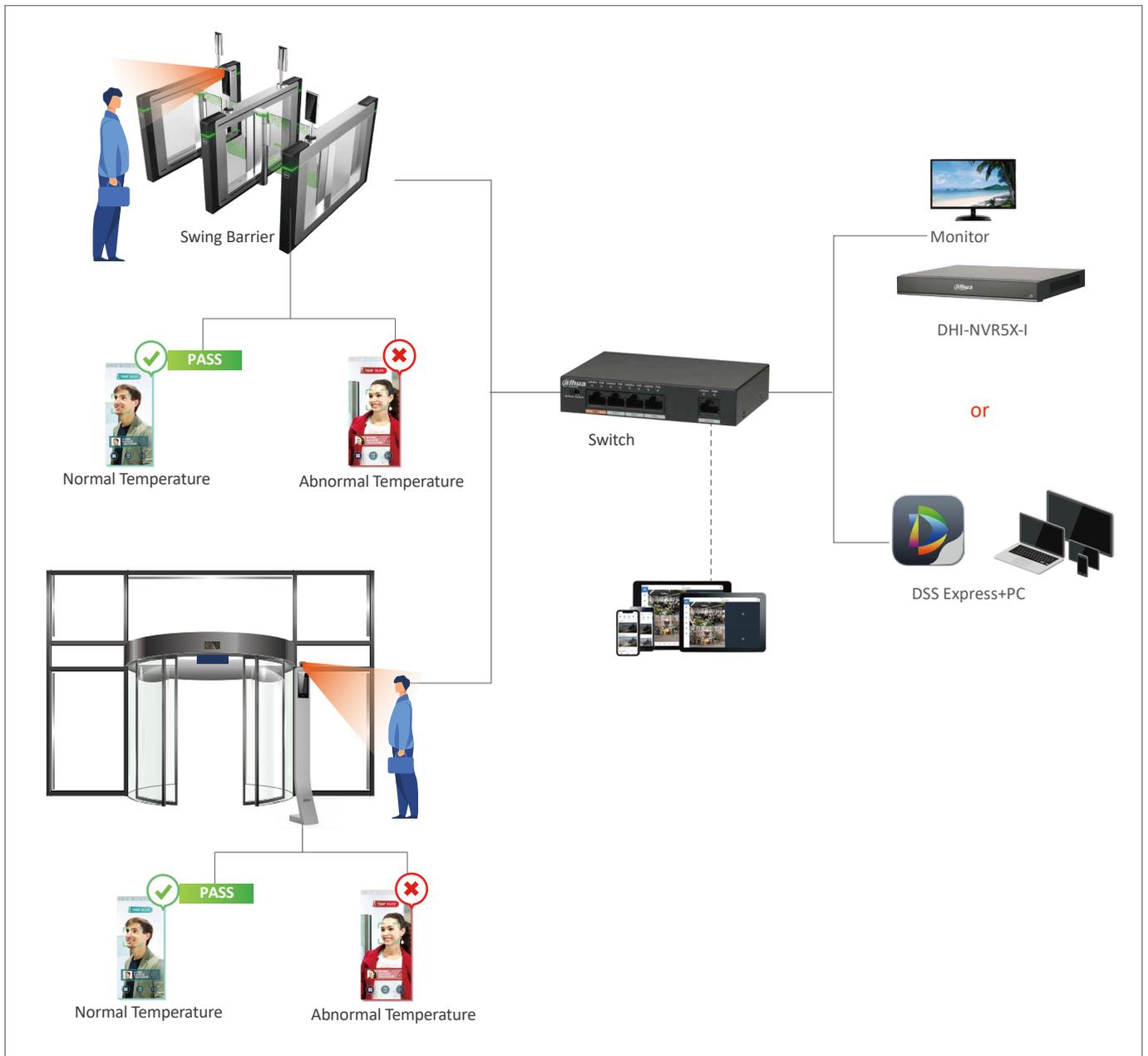- Supports video storage

DSS Express
- Supports real-time display
- Supports data statistics and report export
- Supports alarm pop-up
- Supports data history backtracking
- Fast delivery

LDV55-SAI200
- Features a big screen that improves efficiency
- Supports split screen display
- Provides message prompt to enhance public safety awareness

Temperature Monitoring Solution - Access Control

Swing Barrier

PASS

Normal Temperature

Abnormal Temperature

Switch

Monitor

DHI-NVR5X-I

or

DSS Express+PC

PASS

Normal Temperature

Abnormal Temperature

• Solution Highlights

- Face recognition is integrated with body temperature monitoring, no additional staff required
- Non-contact access
- Large storage of face images and temperature information for easy back-tracking
- Fast access to prevent congestion

• Application Scenarios

Office Entrance

Factory Entrance

Library Entrance

Store Entrance
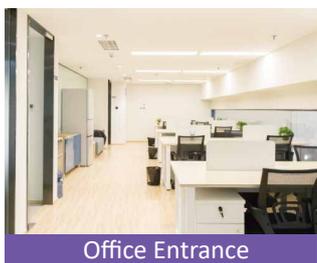
• Product Selection

DHI-ASI7213X-T1
- Temperature monitoring accuracy: ±0.5°C
- Sound Prompt: Abnormal temperature alarm
- Supports mask detection
- Wall mounted, supports linkage with locks

DHI-ASI7213X-T1+ASF172X-T1
- Temperature monitoring accuracy: ±0.5°C
- Sound Prompt: Abnormal temperaturealarm
- Supports mask detection
- Vertical mounted, supports linkage with locks

DHI-ASI7223X-A-T1
- Temperature monitoring accuracy: ±0.5°C
- Sound Prompt: Abnormal temperature alarm
- Supports mask detection
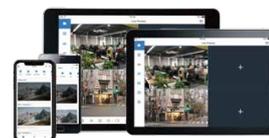- Supports linkage with swing barrier

DHI-NVR5216-16P-I
- Supports real-time display
- Supports data statistics and report export
- Supports alarm pop-up
- Rich alarm linkage for events
- Supports video storage

DSS Express
- Supports real-time display
- Supports data statistics and report export
- Supports alarm pop-up
- Rich alarm linkage for events
- Fast delivery

- Supports real-time display
- Supports alarm push notification for abnormal temperature

People Flow Control Solution

This solution counts the number of customers inside in real-time. When the number of people exceeds the threshold set by the user, it will remind people to wait outside.
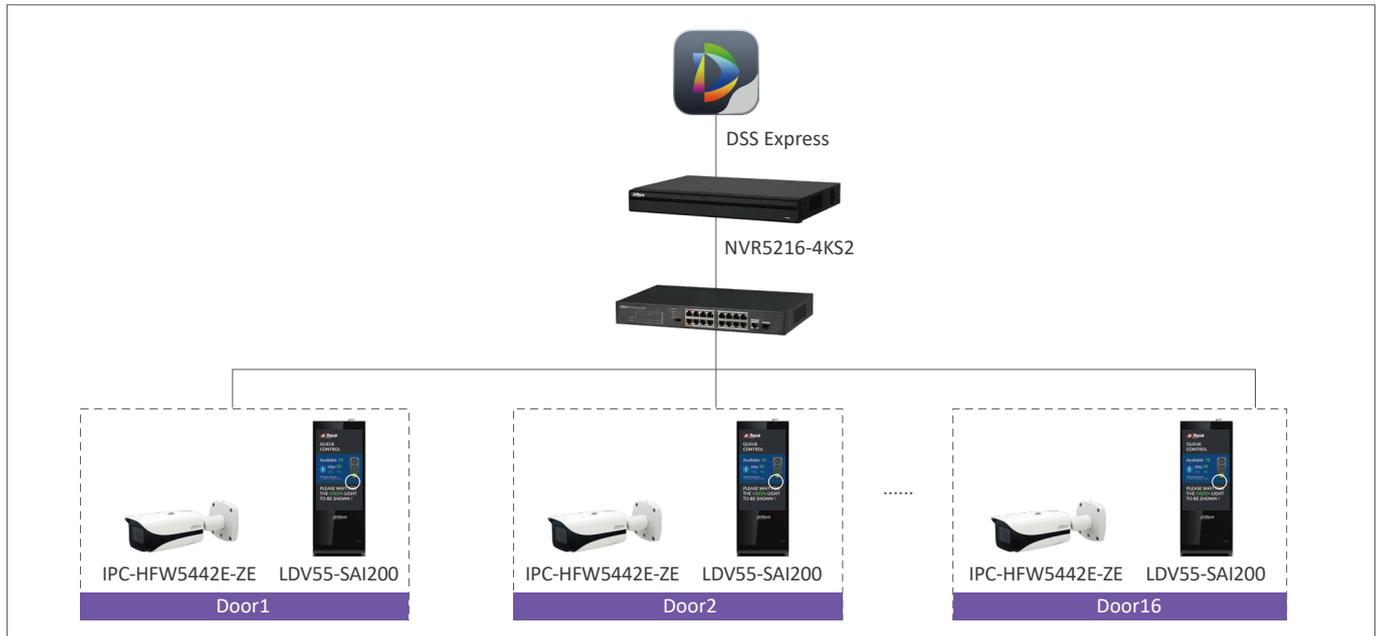

When the number of people inside the store is within the threshold set by the user, incoming customers are allowed to enter.

Remind people to pay attention when the number of people inside the store is about to reach the threshold set by the user.

When the number of people inside the store exceeds the threshold set by the user, incoming customers are not allowed to enter.
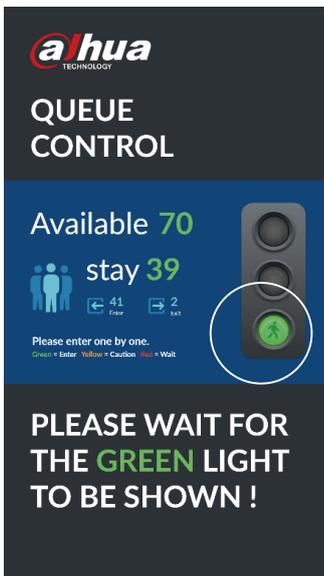
• Solution Topology

• Solution Highlights

• High Efficiency

Employees don't need to stand at the door all the time. They only need to assist incoming customers when the number of people inside the shop is reaching the threshold.

• High Accuracy

The number of people inside the shop are monitored and displayed on the screen, eliminating the need for manual counting which is often inaccurate especially if there are multiple entrances.

• Product Selection

DH-IPC-HFW5442E-ZE
- Supports people counting
- Accurate counting

DHI-NVR5216-4KS2
- Stores video and data
- Supports real-time display
- Accurate alarm

LDV55-SAI200
- Supports real-time display
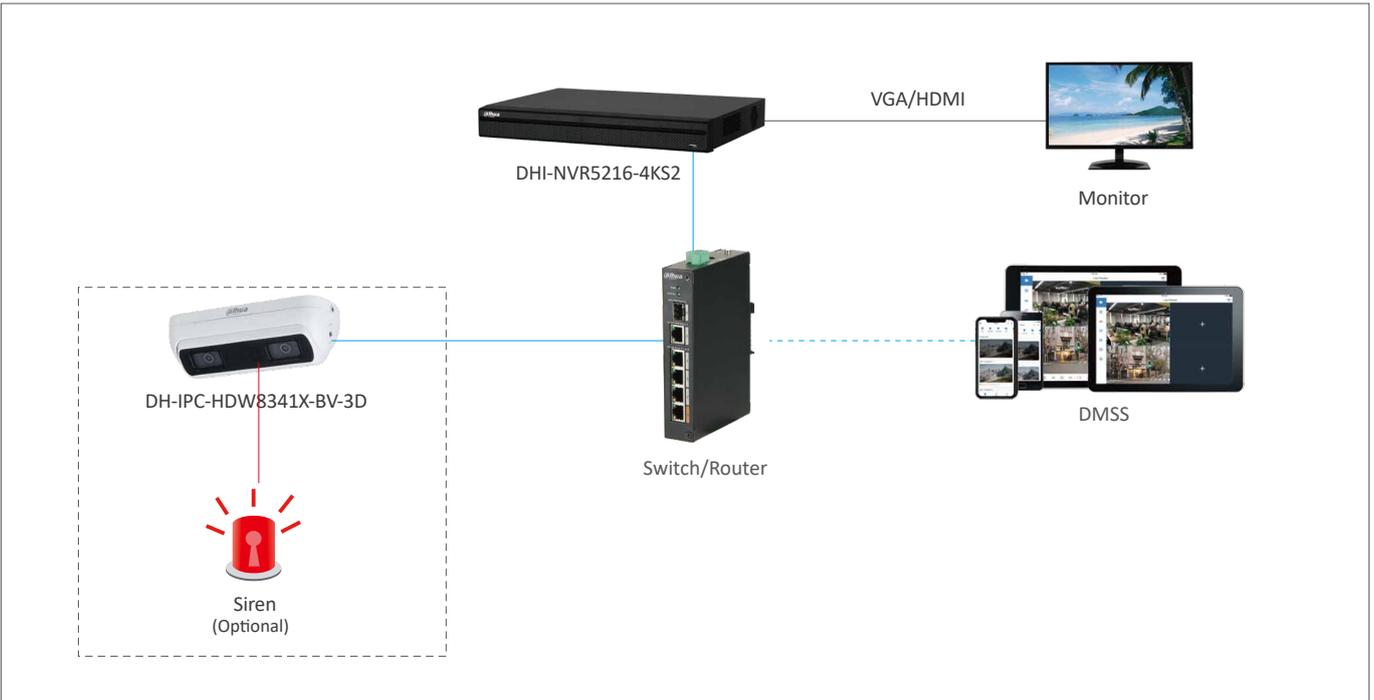- Supports display of different columns together

DSS Express
- Accurate alarm
- Supports real-time display
- Fast delivery

Social Distancing Reminder Solution

Avoid close and physical contact. When the physical distance between two people are less than the preset value, the system will remind the staff to act accordingly.

- Solution Topology

• Solution Highlights

• Accurate Alarms:

The customers and shop assistants will be reminded by an external alarm device or built-in mic in IPC or NVR when the physical distance between two people is below the limit. This will prompt the people in line to adjust and maintain distance from each other until the alarm turns off.

• Safe Operation:

This intelligent solution can help remind and maintain social distancing between people.

• Easy Deployment:

This solution is simple and easy to deploy, saving installation time and efforts.

• Product Selection

DH-IPC-HDW8341X-BV-3D
• Supports abnormal physical distance alarm
• Supports customized voice alarm

DHI-NVR5216-4KS2
• Stores video and data
• Supports alarm pop-up

• Application Scenarios

Supermarket	Shopping Mall	Casino

Food & Grocery Store	Restaurant	Pharmacy

Product Selection

TPC-BF2221

- Resolution: 256*192
- Thermal lens: 7mm
- Visible: 1/2.8"CMOS, 1080P
- Visible lens: 6mm
- Temperature monitoring range: 30°C ~ 45°C

IPC-HFW5442E-ZE

- 1/1.8" 4 Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920×1080)
- 2.7 mm–12.0 mm motorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67, IK10

DH-IPC-HDW8341X-BV-3D

- 3MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 3MP (2048×1536) @30 fps
- ROI, SMART H.264+/H.265+
- Alarm: 2 in, 2 out; audio: 2 in, 1 out; 485; BNC; supports max. 256 G
- Micro SD card, built-in mic and speaker, 12V DC/PoE power supply
- IP67, IK10 protection

DHI-ASI7213X-T1

- 7-inch touch screen
- Ambient temperature range: 16°C ~ 32°C
- Temperature accuracy: ≤0.5°C
- Temperature monitoring distance: 0.3m ~ 1.8m
- Sound Prompt: Abnormal temperature alarm
- Unlock Mode: Face/Card/Password

DHI-ASI7213X-T1+ASF172X-T1

- 7-inch touch screen
- Ambient temperature range: 16°C ~ 32°C
- Temperature accuracy: ≤0.5°C
- Temperature monitoring distance: 0.3m ~ 1.8m
- Sound Prompt: Abnormal temperature alarm
- Unlock Mode: Face/Card/Password

DHI-ASI7223X-A-T1

- 7-inch touch screen
- Ambient temperature range: 16°C ~ 32°C
- Temperature accuracy: ≤0.5°C
- Temperature monitoring distance: 0.3m ~ 1.8m
- Sound Prompt: Abnormal temperature alarm
- Unlock Mode: Face/Password

DHI-NVR5216-4KS2

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Max 320Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- HDMI/VGA simultaneous video output

LDV55-SAI200

- Brightness: 400cd/m²
- Viewing angle: 178°/178°
- Built-in Wi-Fi module, speakers
- 24/7 operation
- Built-in media player software and USB player provide multiple methods to play contents
- Decoding capacity: 1CH@4K or 3CH@1080P
- Metal frame, protective glass

DSS Express

- Unified device management
- Real-time temperature display
- Rich alarm linkage for events
- Multiple clients login
- Fast delivery

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