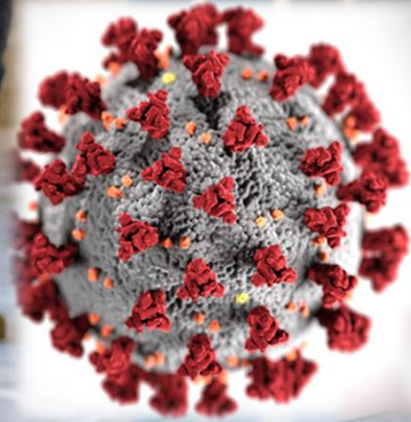


# Retail Real-Time People Flow Control

# Background



## COVID-19

CORONAVIRUS DISEASE 2019

- With the large-scale outbreak of the COVID-19 virus in Europe, various countries have introduced emergency measures to contain and manage the epidemiological emergency of COVID-19, which is applicable to the entire country.
- For example, It is prohibited to gather people in any form in public places or open to the public nationwide.
- Places such as supermarkets or food stores have strict restrictions on people's flow.
- In order to help those staff to understand people flow information more easily, Dahua provides a full set of personnel control solutions.

# Application Scenarios



Supermarket



Food store & Grocery store



Pharmacy



Bank



Post Office



Government agency  
and Other places where people gather.

## Solution Functions

### People Flow Control

Analyze how many people inside the area  
Evaluate the danger level of the crowd people

### Real-time

Display the inside numbers  
Link with Digital Signage

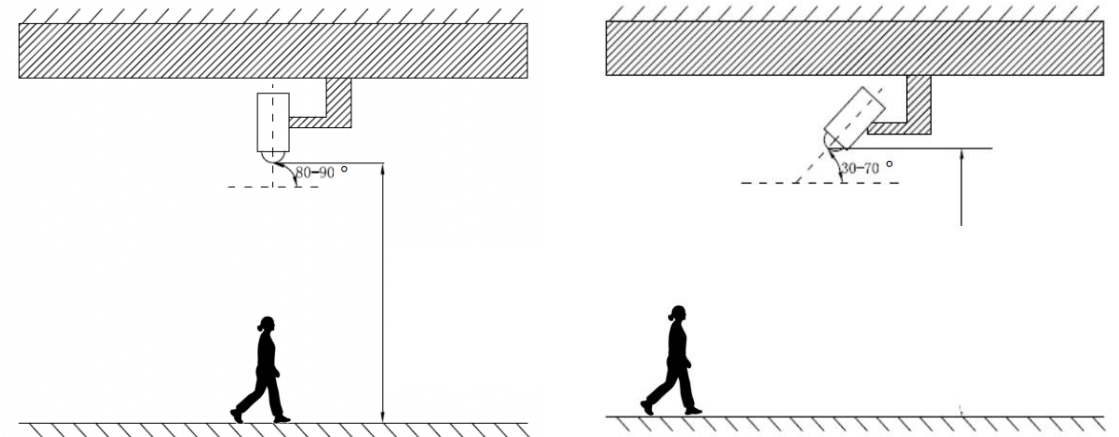
### Trigger the alarm

When the people number over the limitation,  
link with red/green light/video wall /IPC /Siren  
/Speaker/Flash/Email etc...

### Multi-sensor combination

## Advantages

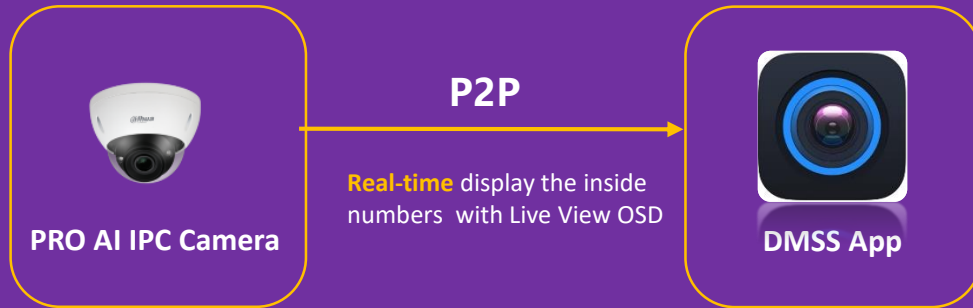
- **Diverse Product Selection:**  
AI IPC( IPC7 or IPC5 Series) & AI PTZ camera.
- **Multi-Installations :**  
Ceiling Mounting  
Tilt Mounting  
The installation height is up to 30m.



# Application 1-Single Entrance/Exit

## Single Entrance/Exit---Real-time Live view

display the inside numbers. Single Entrance with one camera only, The OSD of the camera is used to display the real-time number of people inside. You only need to pull the stream. You can check it through NVR or DMSS APP. The solution is simple and easy to deploy.



## Solution 1

## Solution 2



Category	Descriptions	Model	QTY
Camera	PRO AI IPC Camera	IPC-HDBW5442E-ZE or others	1
Switch	POE Switch (No special model requirements) ★	PFS3106-4ET-60 or others ★	1

Category	Descriptions	Model	QTY
Camera	PRO AI IPC Camera	<a href="#">IPC-HDBW5442E-ZE</a> or others	1
NVR	No special model requirements	NVR5208-4KS2 or others	1
Monitor	No special model requirements	DHL24-F600 or others	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1
Digital Signage	No special model requirements (SAI, TAI, LAI, PAI, EAO series)	LDH43-SAI200	1
Red/Green Light	No special model requirements	Provide from local supplier	1

# Application 2-Multi-Entrances/Exits

Multi-Entrances/Exits---Real-time Live view display the inside numbers and Alarm linkage

Category	Descriptions	Model	QTY
Sensor/Camera a (≤20 devices per server)	PRO AI IPC Camera	IPC-HDBW5442E-ZE or others	?
Recording (optional, if need alarm linkage through NVR relay-out )	NVR with Relay out	NVR5208-4KS2 or others	1 (optional)
	Hard disk 1TB (Optional)	1TB HDD	1 (optional)
Platform	Dell R230 or Customer PC (RAM≥8GB)	Dell R230 or Customer PC	1
	DSS RPO	DHI-DSSPro-Base-License	1
		DHI-DSSPro-BI-Module	1
	Monitor (No special model requirements)	DHL24-F600 or others	1
Digital Signage	No special model requirements (SAI, TAI, LAI, PAI, EAO series)	LDH43-SAI200	1
Red/Green Light	No special model requirements	Provide from local supplier	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	?

## Solution 3



• Ps: Each Camera only supports one rule and have to connect to DSS directly

# Application 3- Small Stores within 35m<sup>2</sup> AI Fisheye Inside Number Counting

## IPC-EBW81242

### Key Features & Benefits



With advanced chip and deep learning algorithm, AI Fisheye network camera supports many intelligent functions, including people counting in multiple areas, multiple queues management, heat map of number of people and average strand time.

- Support max 1 week **track map**



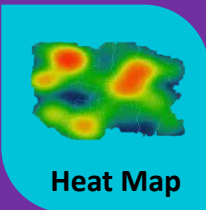
Queue Management

- Support to draw 4 queues
- People counting in each queue
- Real-time display of **each target stays** in the queue
- Population alarm thresholds setting
- Strand time alarm thresholds setting

- Support to draw 4 regions
- **People counting** for each region
- Population alarm thresholds setting
- **Average strand time alarm** thresholds setting



People Counting



Heat Map

- Support **population heat map**
- Support average strand time heat map

### Solution 4

Installation height: 3m ~ 4m

Monitoring area: fisheye as the center, radius of 3 meters



## Products Recommend



### People Counting Camera

#### IPC-HDBW5442E-ZE

- > 1/1.8" 4Megapixel progressive scan CMOS
- > H.265 & H.264 triple-stream encoding
- > 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- > WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- > Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- > 2.7 mm–12.0 mm motorized lens
- > 1/1 Alarm in/out, 1/1 audio in/out
- > Max. IR LEDs Length 40 m
- > Micro SD memory, IP67, IK10

### NVR



#### NVR5208-4KS2

- > 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



### Digital Signage

#### LDH43-SAI200

- > High quality panel, industrial-grade design, full metal casing, 5mm tempered protective glass.
- > Supports picture, audio, video, PDF, IPC stream, time, weather, etc.
- > MPS platform provides unified remote management for system integrators and media operators.
- > Strong 4 core processor provides powerful decoding capabilities, enabling premium display performance.
- > Multiple installation modes satisfy a broad range of project requirements

### - Software -



#### DSS Pro + BI -Platform

- > Easy performance upgrade via distributed hardware extension.
- > Easy multi-site management through cascading.
- > Easy function upgrade via add-ons
- > Back up and restore database.
- > Supports hot standby for master server
- > Devices included: Network camera, network speed dome, decoder, NVR, DVR, ANPR, access control device, VDP, alarm controller, etc.
- > Connects third-party devices via standard ONVIF protocol.
- > DSS Pro SDK for third-party platform or mobile development.



Thanks-Grazie-Danke-Merci-Gracias-Bedankt

© 2020 Dahua Technology is a leading solution provider in the global video surveillance industry. With more than 13,000 employees all over the world, Dahua solutions, products, and services are used in over 180 countries and regions. Dahua has 42 subsidiaries globally covering Asia, the Americas, Europe, Middle East, Oceania, Africa, etc. With its surveillance solutions, Dahua delivers unparalleled quality, reliability and stability.. All rights reserved.  
 The Dahua name and logo are registered trademarks or trademarks of Dahua Technology | September 2018