

INSTANT BODY TEMPERATURE MEASURING CERTIFIED SYSTEMS

MEASUREMENT ACCURACY $\pm 0.3^{\circ}\text{C}$



Thanks to these systems, it is possible to set up effective and timely temperature measuring stations that can be placed in strategic areas of multiple scenarios characterized by large flow of people. The instant measurement of 30 people simultaneously, from safe distance, makes it the ideal solution to identify the profiles at risk and drive them away from the crowd safeguarding the public health.



Crowded
Places



High Risk
Places



Security
Checks



Temporary
Control



Hospitals



Markets



Enterprises



Railways



Stations



Buildings



Schools



Airports

KEY ELEMENTS

JQ-D70Z

Better known as “Blackbody”, it is a certified device placed in the field of view of the camera that provides a steady and precise temperature reference, which the camera uses to auto-calibrate increasing its accuracy.



TPC-BF3221-TB7F8

Hybrid camera with temperature measurement that provides standard and thermal images of the scene at the same time. An AI algorithm recognizes human figures and measures the temperature of the faces, excluding any other heat source that could cause false alarms, from the optimum distance of 3 meters.



OPTIONAL PRODUCTS

CENTER330

Compact Server & workstation Win 10 Pro x64.



NVR5X-I

4 channels video recording and event generation if someone has the face covered, for instance, by a mask.



IVSS7X

8 channels video recording and event generation if someone has the face covered, for instance, by a mask.



ACCESSORIES

VTC-990

Tripod for camera/blackbody

SWP1220

12 VDC/2A power adapter for camera

RAW021-00

Tripod adapter for camera/blackbody



BASIC MEASURING SYSTEM

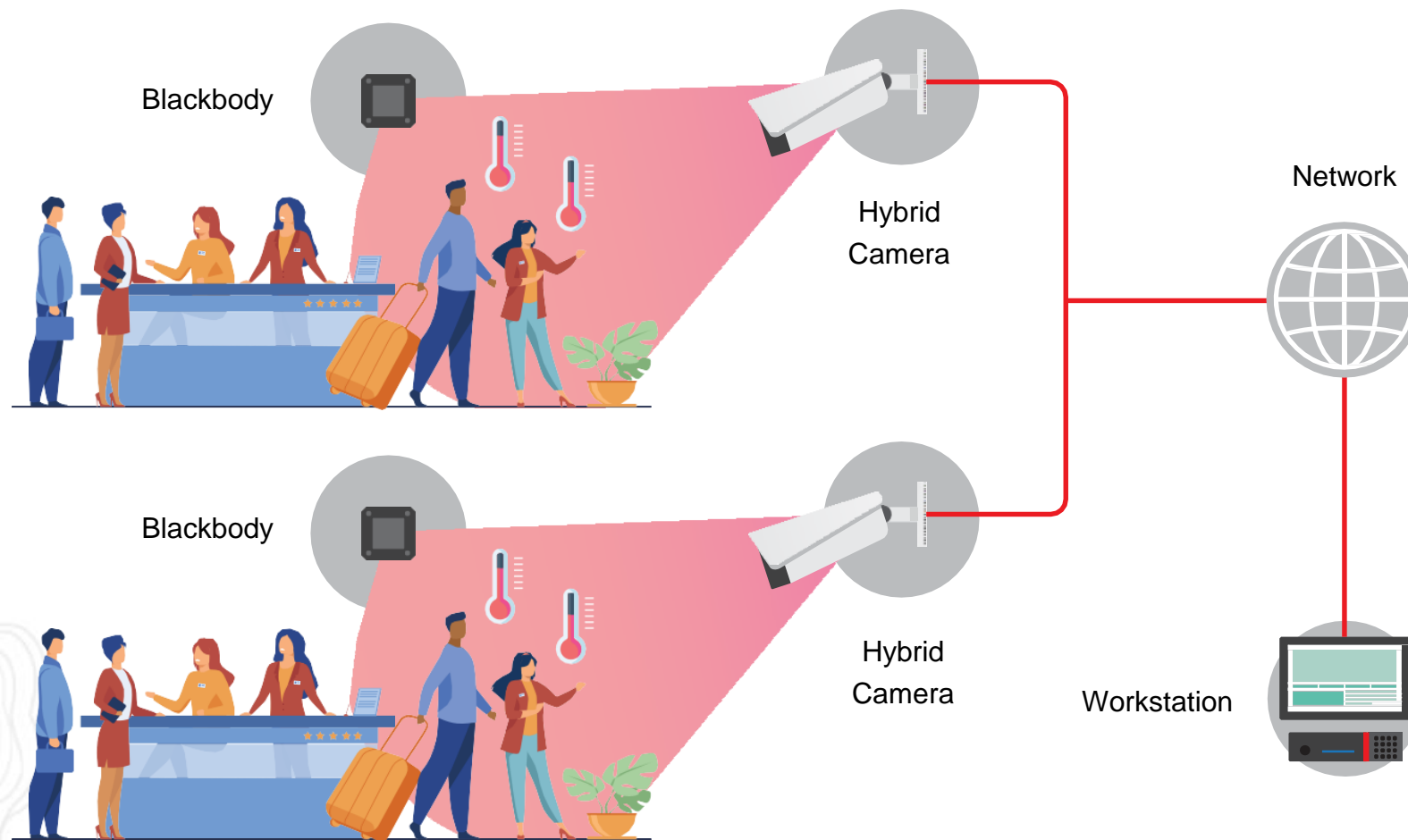
Real-time visualization of measured temperatures through the web interface of the camera. The operator acts accordingly enabling two-way communication with microphone and speakers on board the camera to separate those at risk from the crowd. Above a given threshold, the flashy white LED and/or an audio message from the speakers can be triggered.



MULTI-POINT MEASURING SYSTEM

The workstation centralizes the different measuring points by DSS Express. Benefits over Basic System:

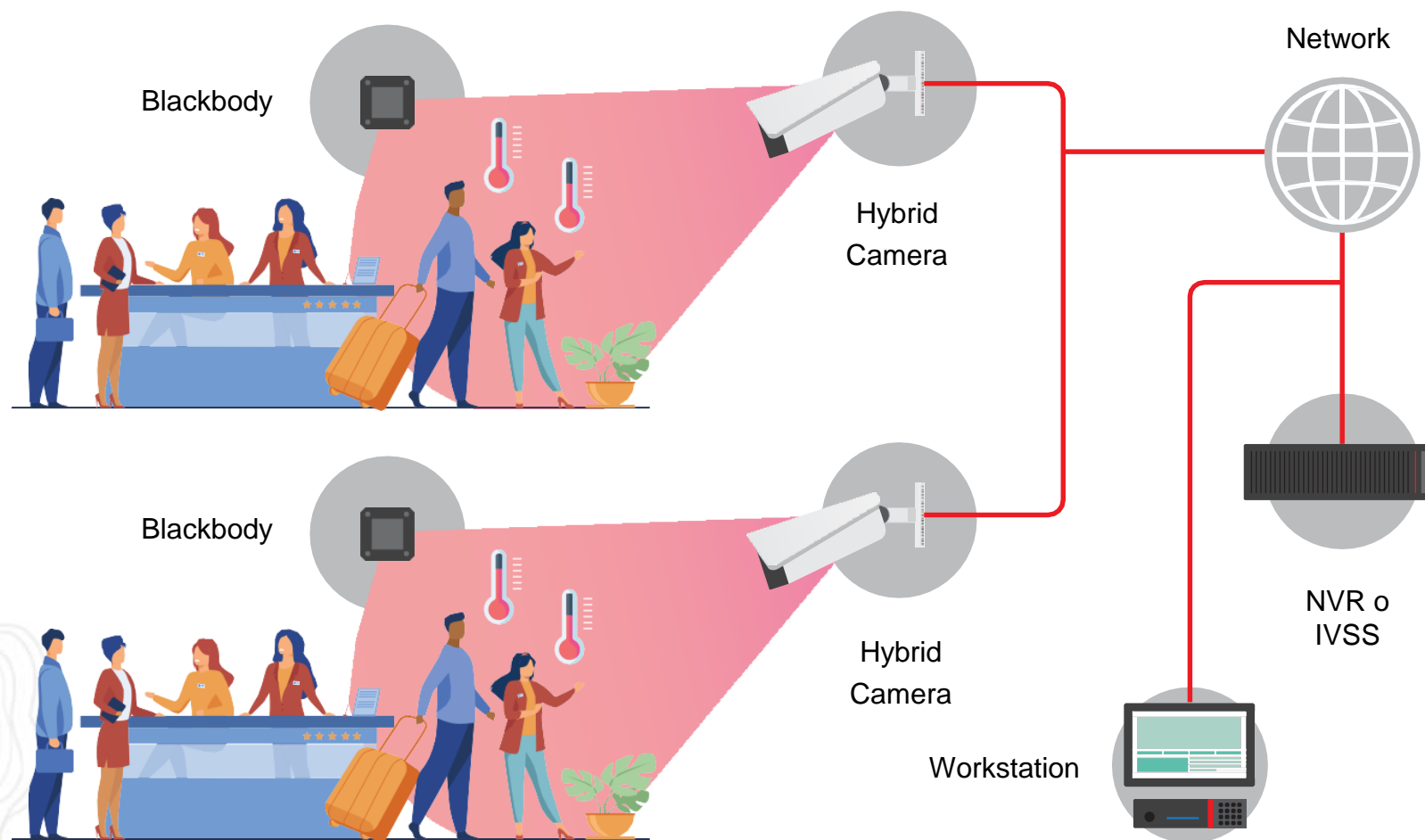
- Centralization of different measuring points in local network or remotely
- Graphic mapping
- Reception of event notifications, alarm buzzer and pop-up window in the concerned channel
- Possibility of linking the event of a channel to another one (i.e.: an abnormal detection in a channel can be linked to the switch of the alarm output of another device)



MULTI-POINT MEASURING SYSTEM WITH STORAGE AND METADATA

The workstation centralizes the different measuring points by DSS Express. Benefits over Basic System:

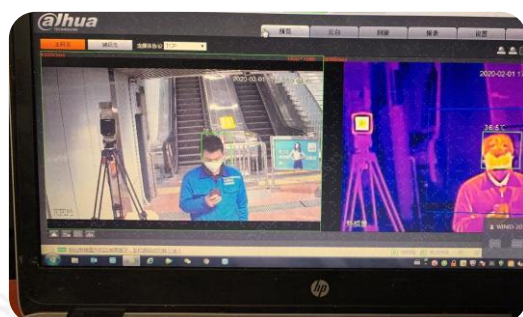
- Detection of covered faces (up to 4 channels with NVR5X-I, 8 channels with IVSS7X)Graphic mapping
- Storage of images



SUCCESS CASES

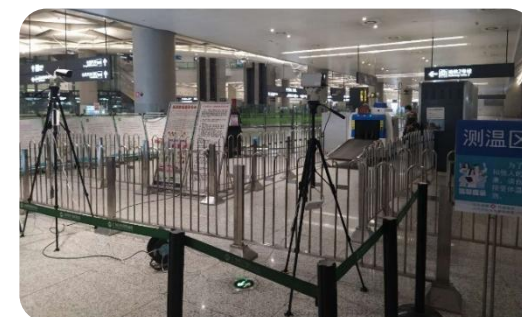
BEIJING METRO LINE 2

At the security check gate of all subway lines in Beijing, the subway company adopts the human body temperature measurement solution provided by Dahua to conduct remote non-contact real-time temperature measurement and greatly improve the detection efficiency of subway security personnel through automatic sound-light alarm.



SHANGHAI RAILWAY STATION

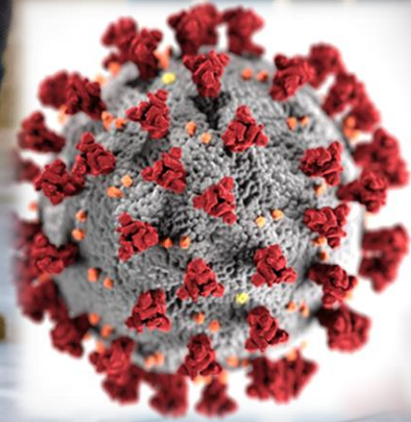
Dahua thermal human temperature measurement solution helps Shanghai railway station, one of the busiest railway station in the world, to realize rapid human body temperature measurement with dense crowds and find people with abnormal body temperature timely.





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/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 and
Grocery store**



Pharmacy



Government agency



Bank



Post Office
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 and
link with Digital Signage

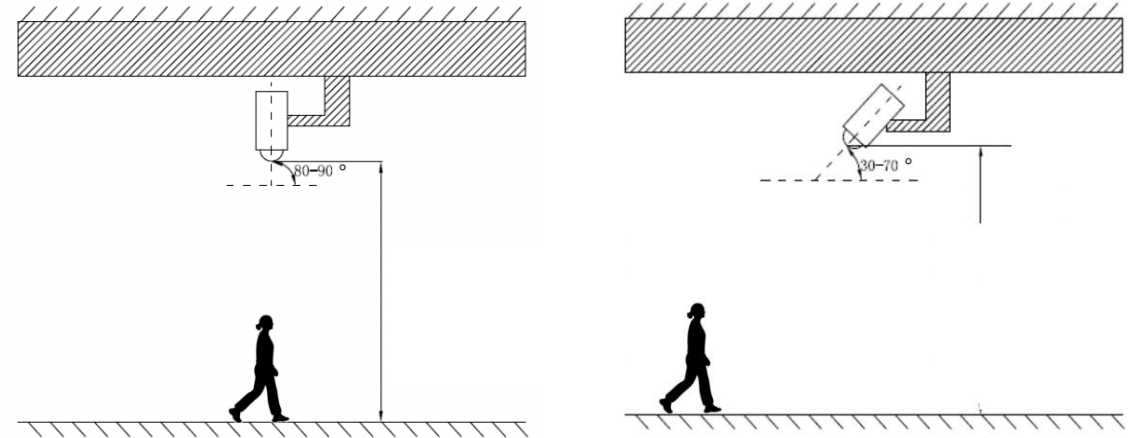
Trigger the alarm when the people more
than the limitation and link with red/green
light/video wall /IPC /Siren
/Speaker/Flash/Email etc...

Multi-sensor combination

Advantages

Sensors/Cameras Installation :

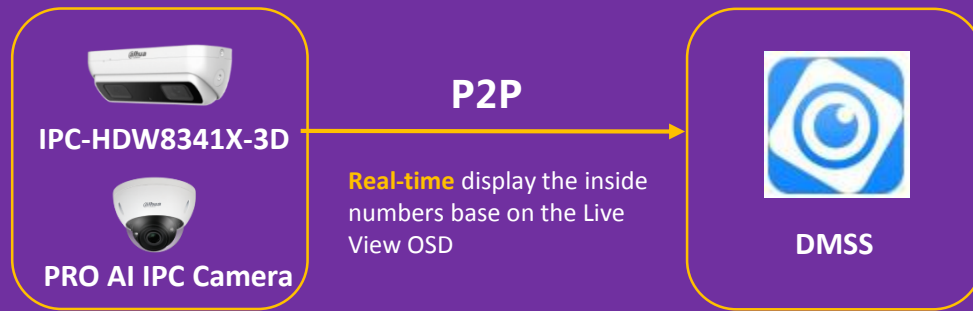
- **Large Product portfolio :**
- Professional Dual-Lens People counting Sensor ,
Normal AI IPC(IPC7 or IPC5 Series)& AI PTZ camera .
- **Multi-Installations :**
- Camera supports Ceiling Mounting ,Tilt Mounting
and the installation height up to 30m.
- Ps : One Sensor/Camera only supports one rule and have to connect to DSS directly



Application 1-Single Entrance/Exit

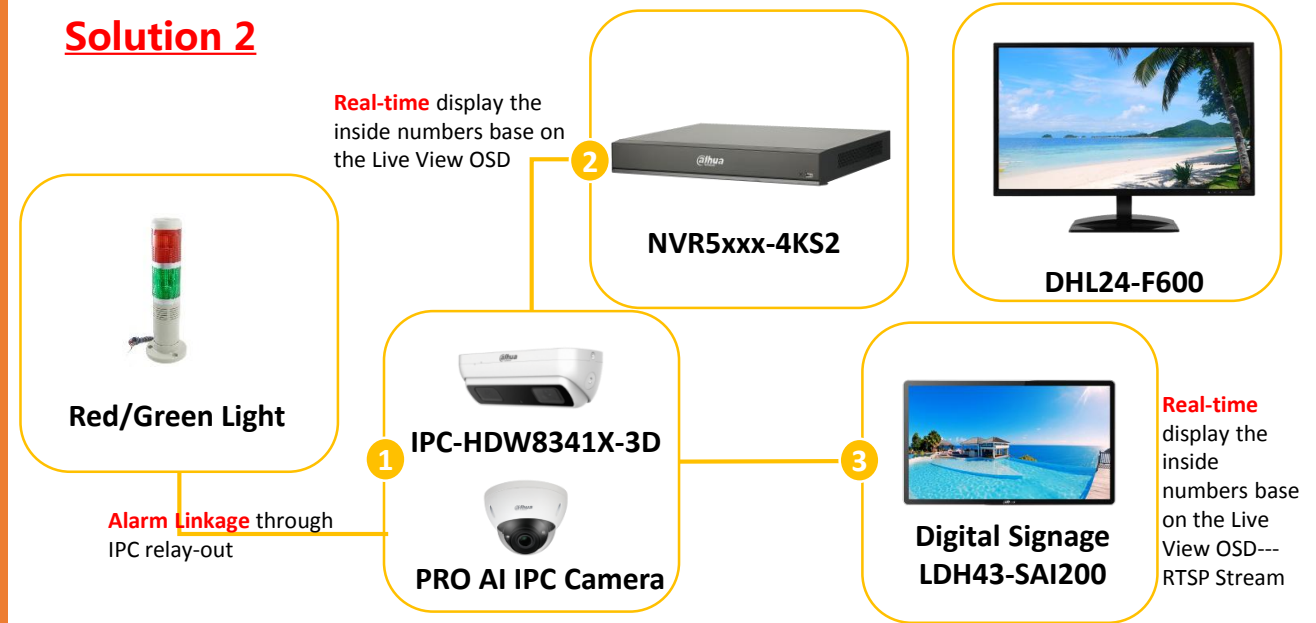
Single Entrance/Exit---Real-time Live view display the inside numbers. Single Entrance with one camera only , The OSD of the camera is used to display the real-time number of people inside. You only need to pull the stream. You can check it through NVR or DMSS APP. The solution is simple and easy to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

Solution 1



Category	Descriptions	Model	QTY
Camera	PRO AI IPC Camera ★	IPC-HDBW5442E-ZE or others ★	1
	3MP Dual-Lens People Counting AI Network Camera Accuracy up to 98% with special FW	IPC-HDW8341X-3D	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1

Solution 2

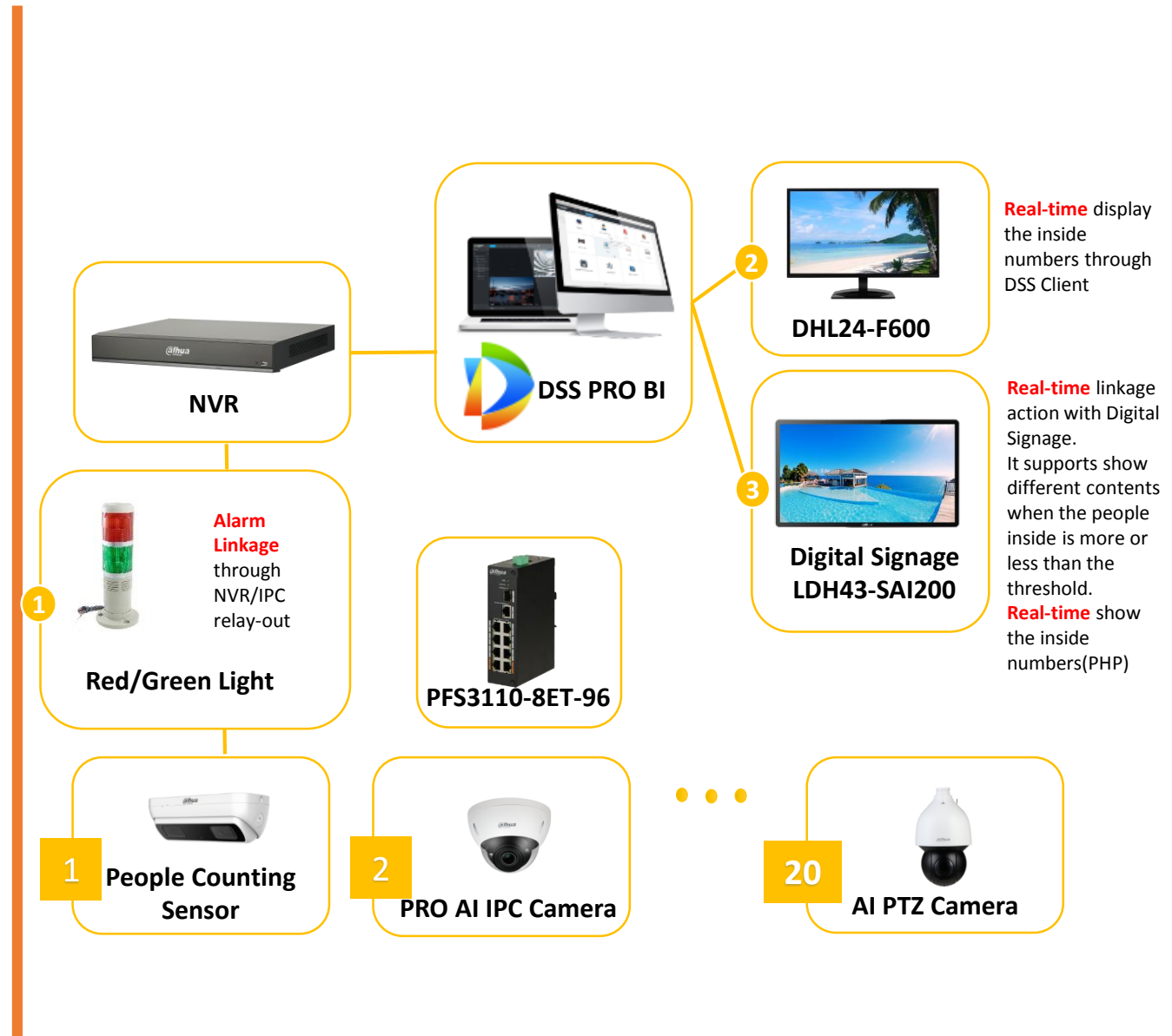


Category	Descriptions	Model	QTY
Camera	PRO AI IPC Camera	IPC-HDBW5442E-ZE or others	1
	3MP Dual-Lens People Counting AI Network Camera Accuracy up to 98% with special FW	IPC-HDW8341X-3D (not support the alarm linkage)	1
NVR	No special model requirements	NVR5208-4KS2 or others	1
Monitor	No special model 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 (≤20 devices per server)	PRO AI IPC Camera	IPC-HDBW5442E-ZE or others	?
	3MP Dual-Lens People Counting AI Network Camera Accuracy up to 98% with special FW	IPC-HDW8341X-3D (not support the alarm linkage)	?
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
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Products Recommend

-People Counting Camera



IPC-HDBW5541E-ZE

- > 1/2.7" 5Megapixel progressive scan CMOS
- > H.265 & H.264 triple-stream encoding
- > 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- > WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- > Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- > 2.7 mm–13.5 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

-Platform

- Software -



DSS Pro + BI

- > 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 !

WEU Project Team
Dahuasecurity.com



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**Retail
Real-Time
People Flow Control**



Background

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- Supermarket, food store and Grocery store
- pharmacy
- Government agency, Bank and Post Office
- Other places where people gather.



Solution Functions

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Analyze how many people inside the area

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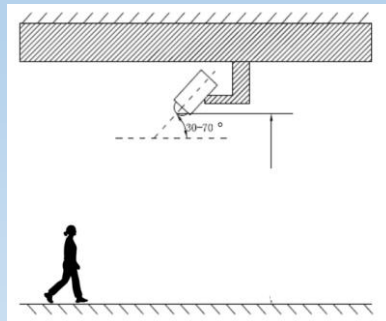
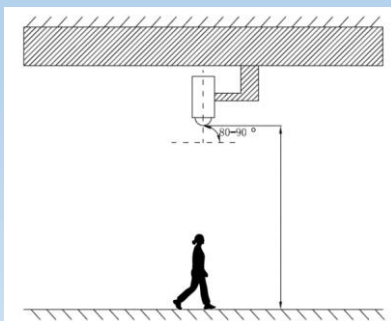
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- **Multi-Installations** :Camera supports Ceiling Mounting ,Tilt Mounting and the installation height up to 30m.
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Application 1-Single Entrance/Exit

Single Entrance/Exit---Real-time Live view display the inside numbers.

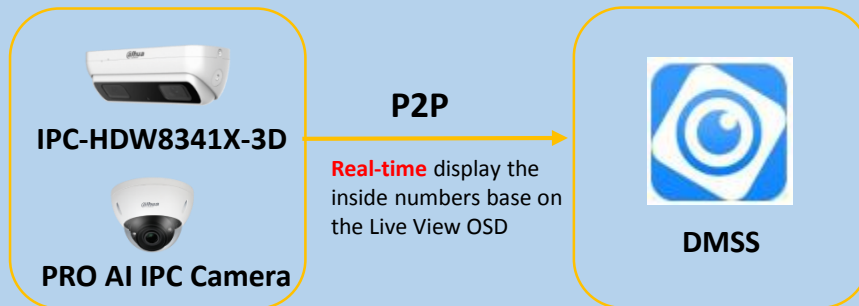
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Monitor	No special model requirements	DHL24-F600 or others	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1
Digital Signage	No special model requirements (SAI, TAI, LAI, PAI, EAO series)	LDH43-SAI200	1
Red/Green Light	No special model requirements	Provide from local supplier	1

Solution 2



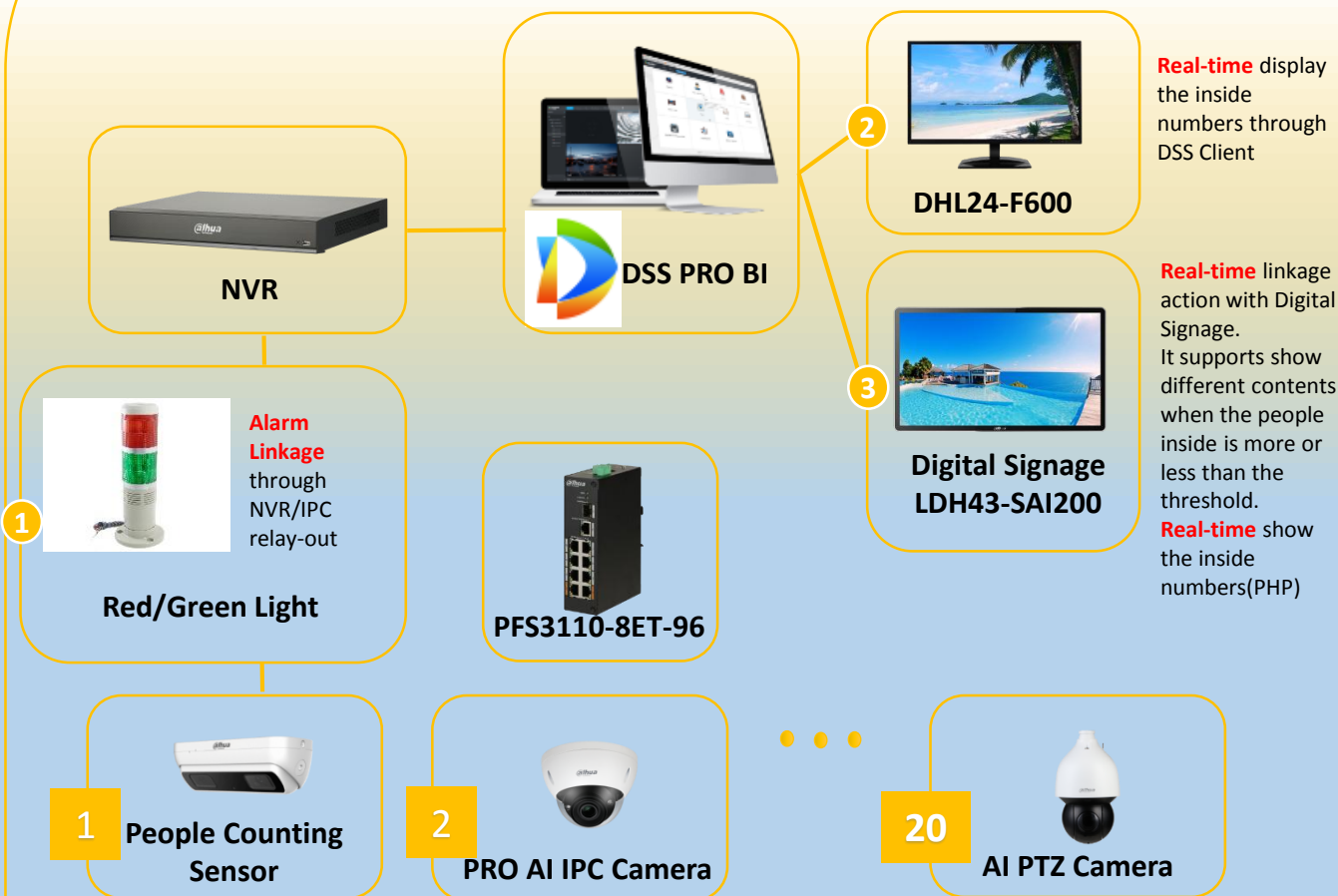
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Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1

Ps:

- PRO AI IPC Camera have to use the **special FW which will be released 3rd April**
- IPC-HDW8341X-3D have to use the **special FW_2.6.01.05.05155 DH_IPC-HX8X4X-Kronos_Eng_P_Stream3_V2.622.10IK000.0.T.181205.zip**
- IPC-HDW8341X-3D has two different 2.8mm (3.6mm) Focal Length
- More details please check the <People counting Product Construction Instruction(double lens)>

Application 2-Multi-Entrances/Exits

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



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	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	?

Ps:

- IPC PRO AI series please select the model with Focal Length :2.8mm ,3.6mm or 2.7~12mm
- IPC-HDW8341X-3D has two different 2.8mm (3.6mm) Focal Length
- IPC-DH-IPC-HD4140X-3D has two different 2.1mm (2.8mm) Focal Length
- More details please check the <People counting Product Construction Instruction(double lens)>
- &<People counting Product Construction Instruction(single lens)>
- PRO AI IPC Camera have to use the **special FW which will be released 3rd April**