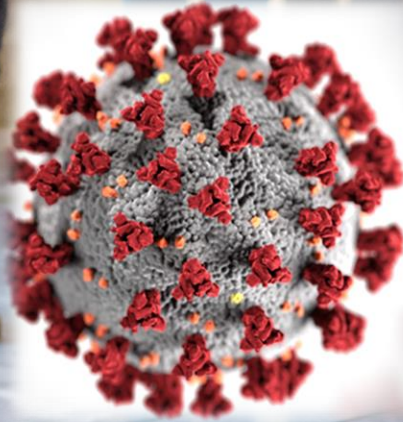




Retail Real-Time People Flow Control

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

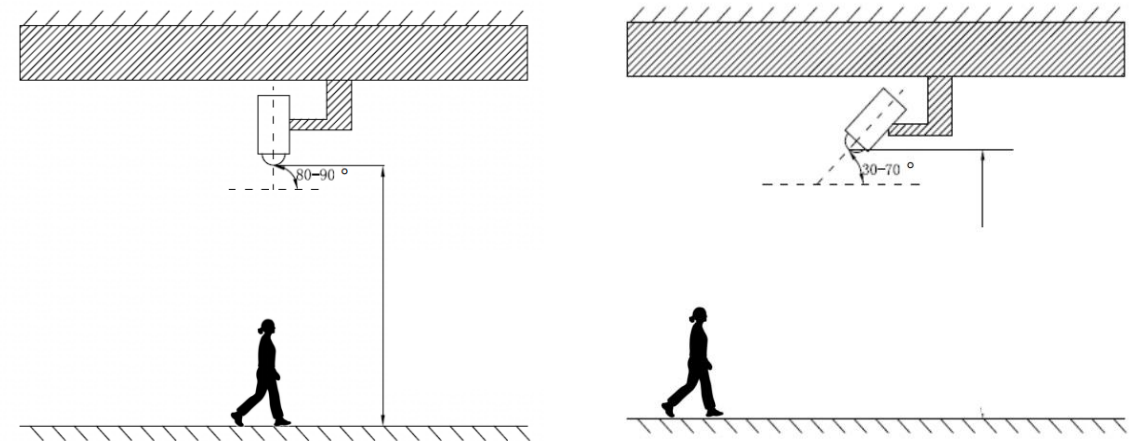
Trigger the alarm when the people more
than the limitation and link with red/green
light/video wall /IPC /Siren
/Speaker/Flash/Email etc...

Multi-sensor combination

Advantages

Sensors/Cameras Installation:

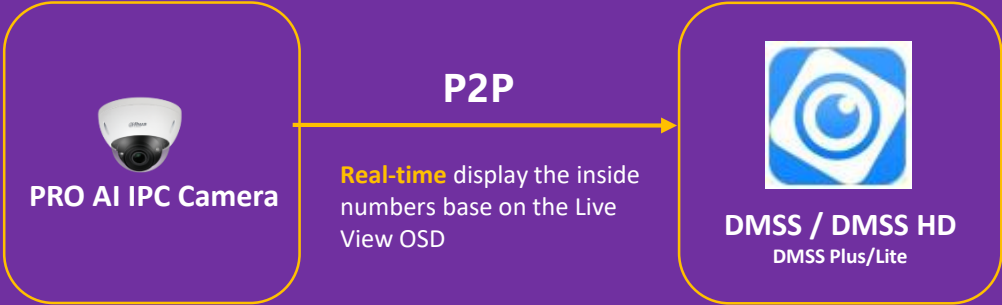
- **Large Product portfolio :**
- Professional Dual-Lens People counting Sensor ,
Normal AI IPC(IPC7 or IPC5 Series)& AI PTZ camera .
- **Multi-Installations :**
- Camera supports Ceiling Mounting ,Tilt Mounting
and the installation height up to 30m.
- **GDPR compliance**, one-click black screen
- Ps: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



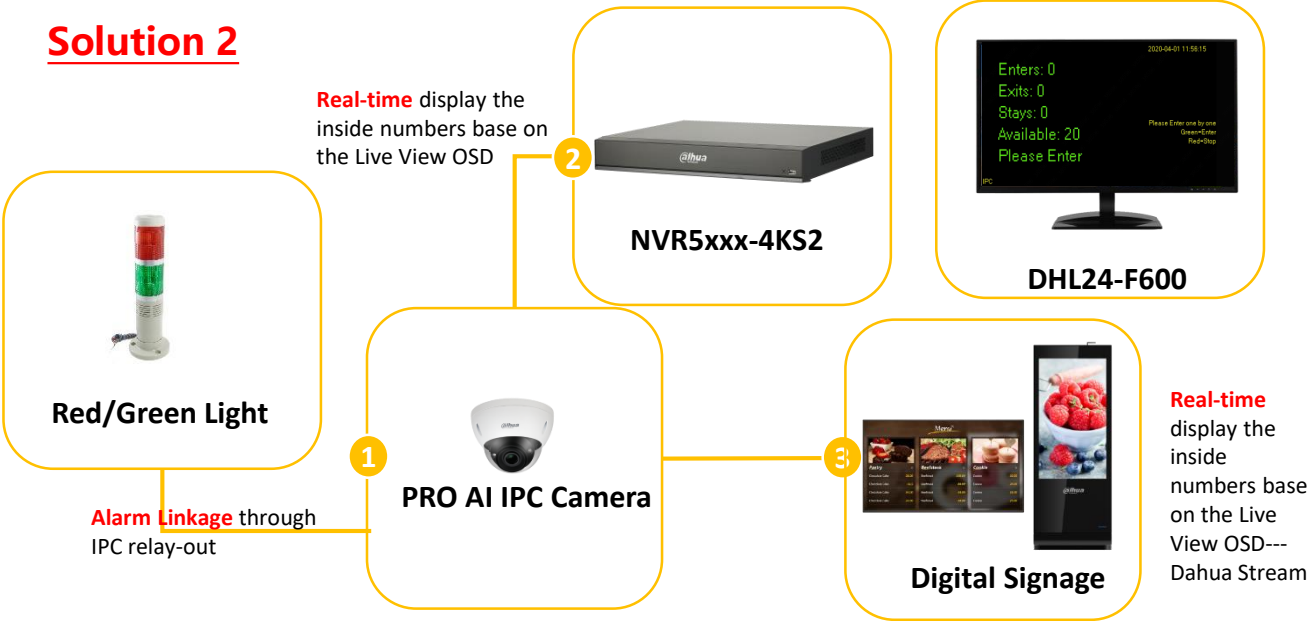
Application 1-Single Entrance/Exit

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



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 (with alarm out)	IPC-HDBW5442E-ZE or others	1
NVR	No special model requirements	NVR5208-4KS2 or others	1
Monitor	No special model requirements	DHL24-F600 / LM43-F200 or others	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1
Digital Signage	No special model requirements (SAI, TAI series)	LDH49-TAI200 / LDV55-SAI200 or others	1
Red/Green Light	No special model requirements	Provide from local supplier	1

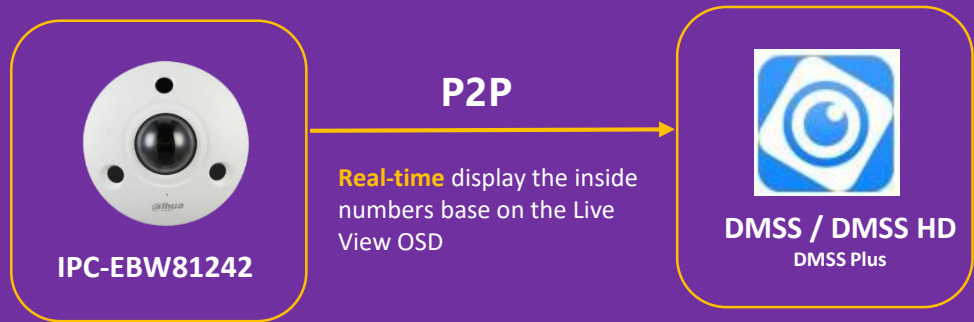
Application 2-Single Area Counting

Single Area Counting (Single Camera)

--**Real-time Live view** display the inside numbers. Single area 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.

--Alarm Linkage

Solution 1



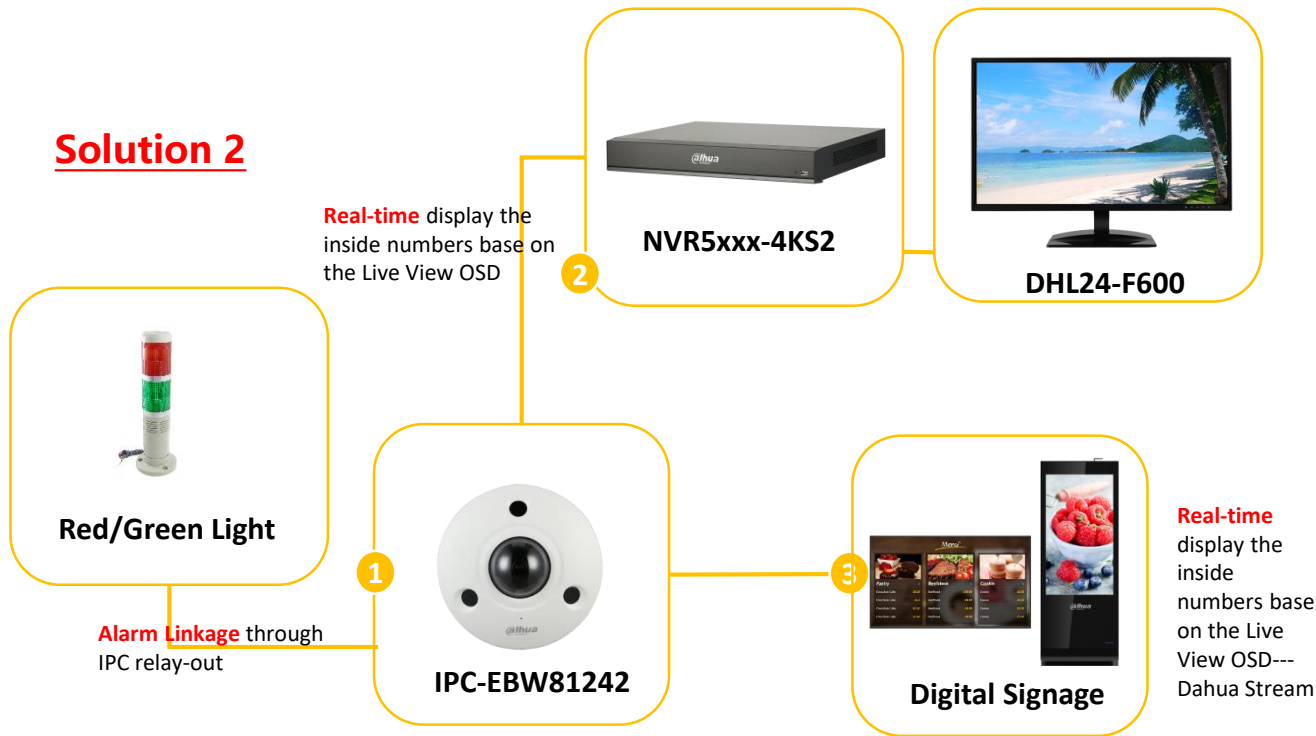
Category	Descriptions	Model	QTY
Camera	AI fisheye camera ★	IPC-EBW81242 ★	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1

Application: Store area is less than 30 square meters

	Installation Height	Counting Radius	Accuracy
	3m	3.5m	95%
	3.5m	3.5m	96%
	4m	3m	99%



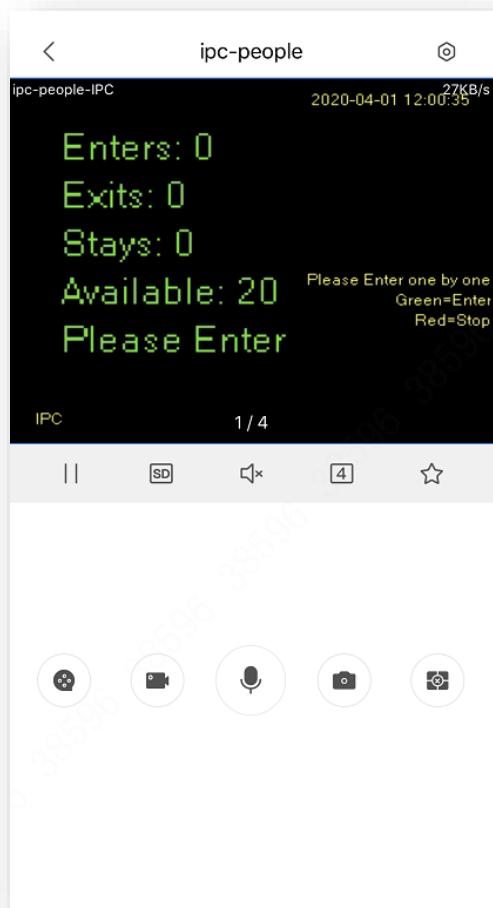
Solution 2



Category	Descriptions	Model	QTY
Camera	AI fisheye camera	IPC-EBW81242	1
NVR	No special model requirements (mush supports 12MP fisheye camera)	NVR5208-4KS2 or others	1
Monitor	No special model requirements	DHL24-F600 / LM43-F200 or others	1
Switch	POE Switch (No special model requirements)	PFS3106-4ET-60 or others	1
Digital Signage	No special model requirements (SAI, TAI series)	LDH49-TAI200 / LDV55-SAI200 or others	1
Red/Green Light	No special model requirements	Provide from local supplier	1

Application 1&2-Single Entrance/Exit & Single Area Counting -Captures

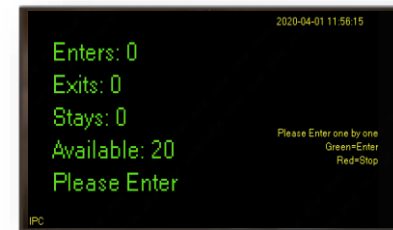
DMSS



Web Page



Monitor



Digital Signage



Multi-languages & GDPR

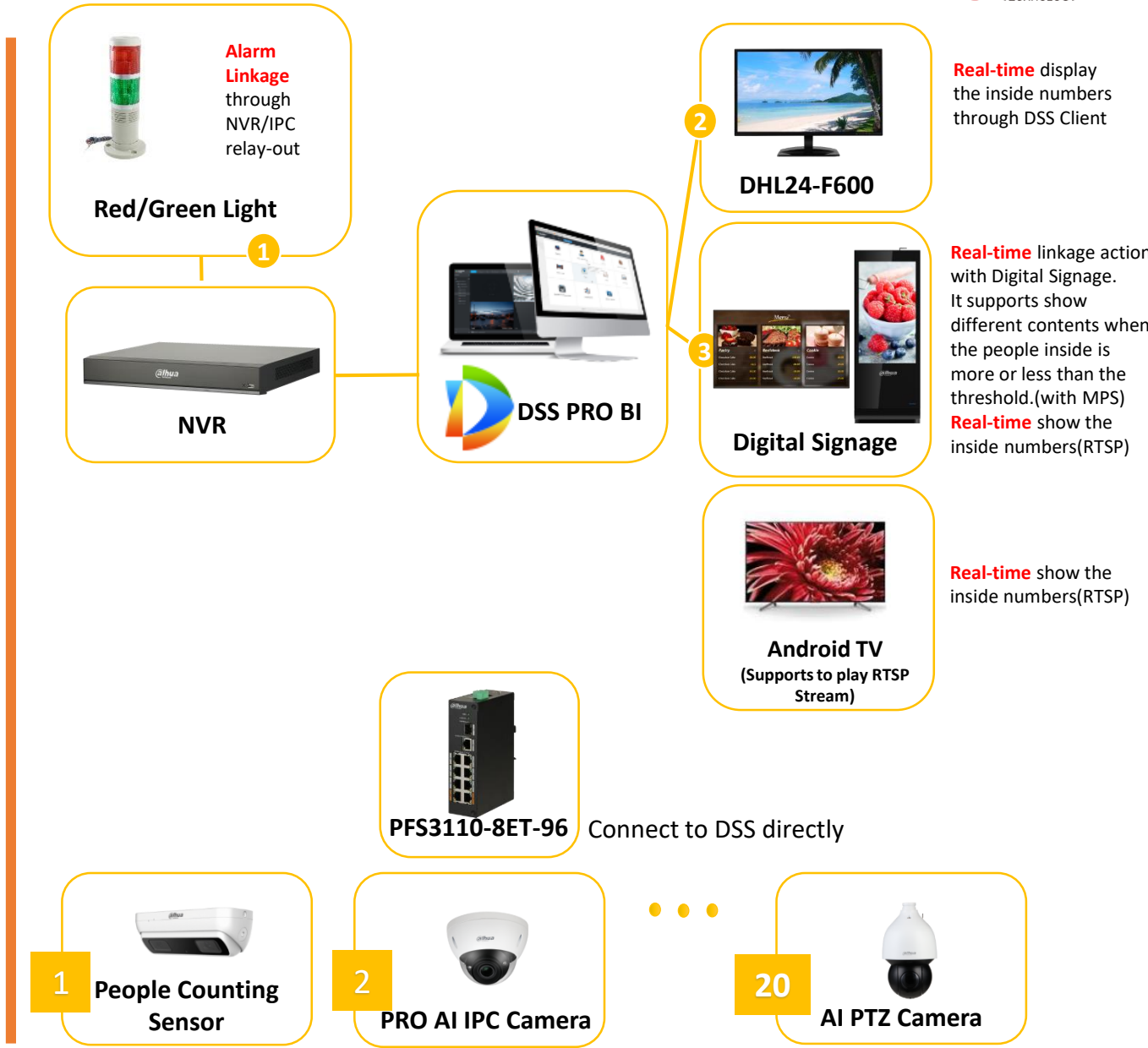


- **GDPR compliance**, one-click black screen
- Optional OSD display content (such as not displaying Enters & Exits)

Application 3-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 (with alarm out)	IPC-HDBW5442E-ZE or others	?
	3MP Dual-Lens People Counting AI Network Camera Accuracy up to 98% with special FW	IPC-HDW8341X-3D	?
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 / LM43-F200 or others	1
Digital Signage	No special model requirements (SAI, TAI series)	LDH49-TAI200 / LDV55-SAI200 or others	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	?



Application 3-Multi-Entrances/Exits -DSS Captures



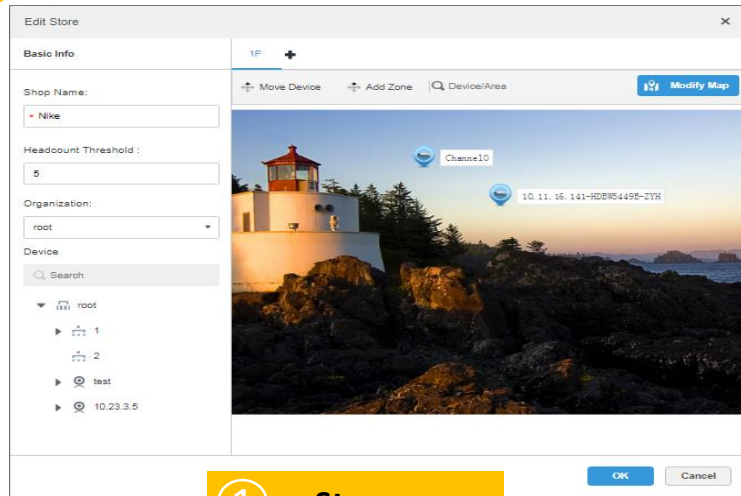
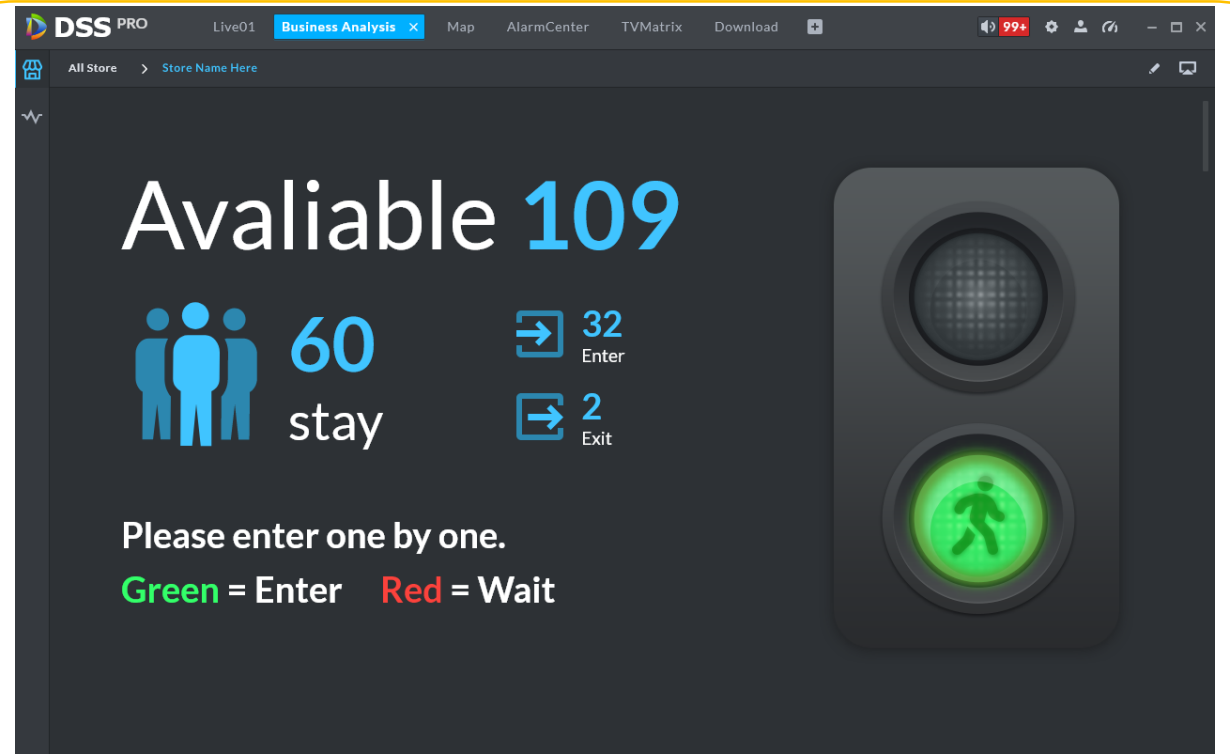
Monitor



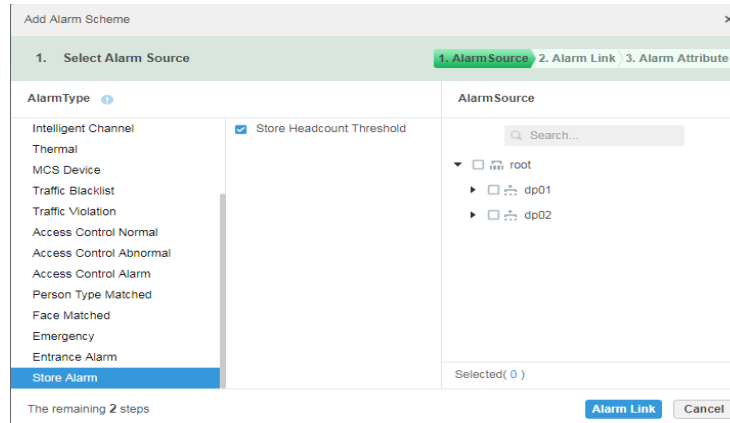
Digital Signage



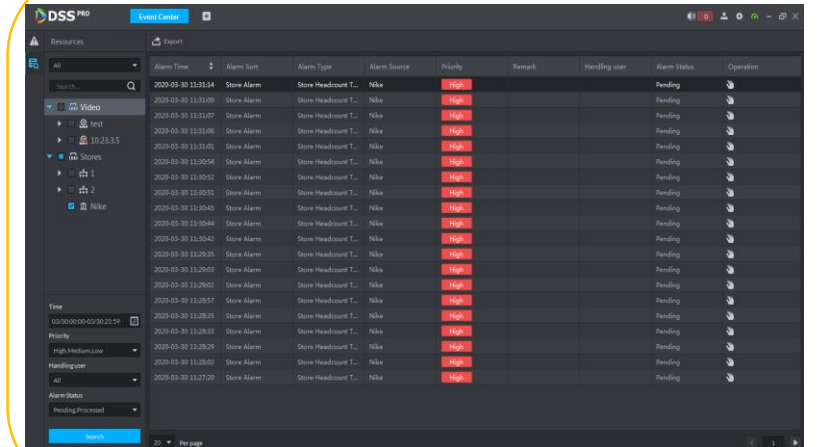
Live Count



① Store Configuration



② Alarm Configuration



③ Event Center

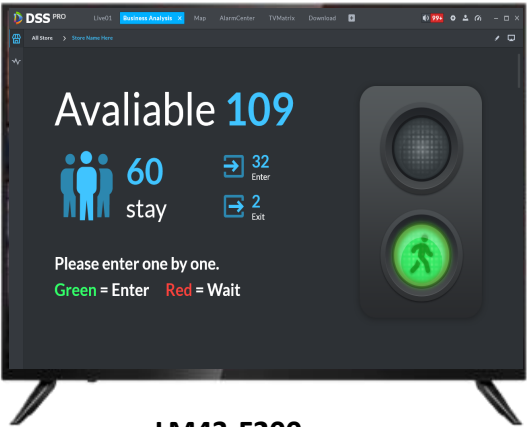
How to Display the Contents

1 Dahua Monitor

- Connect with PC and show the DSS Client UI Directly

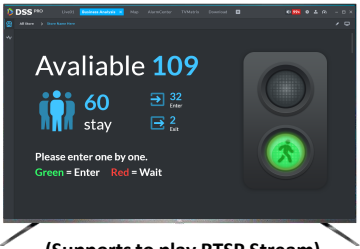


DHL24-F600



LM43-F200

3 3rd-Part Display



(Supports to play RTSP Stream)

Real-time show the DSS Client
(RTSP stream from RTSP Server on DSS client)



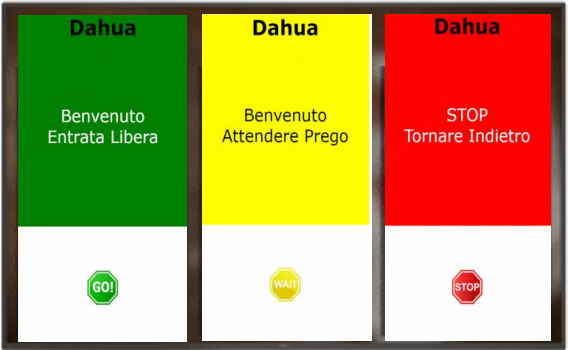
(With Internet Browser)

Real-time display different content based
on different flow status

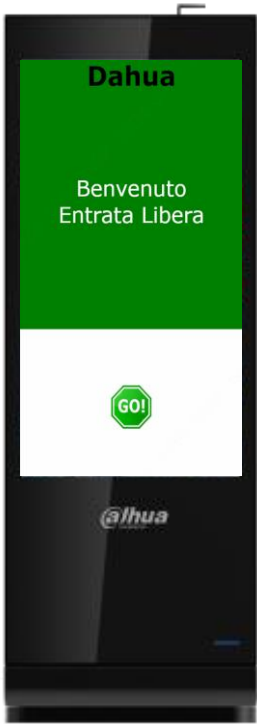
Android Smart TV

2 Dahua Digital Signage

- Based on the special function of DSS, support custom template, insert any text or picture you want, and display different content based on different flow status
- Only one step to play the corresponding content on Dahua Digital Signage



LDH49-TAI200
49" Indoor Wall-mounted Digital Signage



LDV55-SAI200
55" Floor Standing Digital Signage



DSS PRO Client

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



LDH49-TAI200

49" Indoor Wall-mounted Digital Signage



LDV55-SAI200

55" Floor Standing Digital Signage

-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.



WEU Project Team
Dahuasecurity.com



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