



People Counting & Flow Control Installation and configuration guide

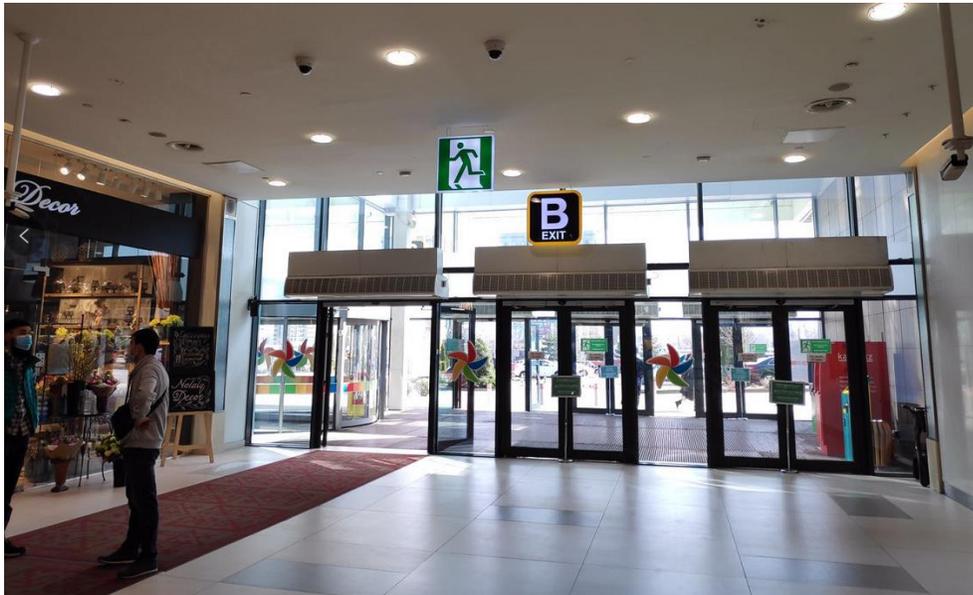
Ver.1.0

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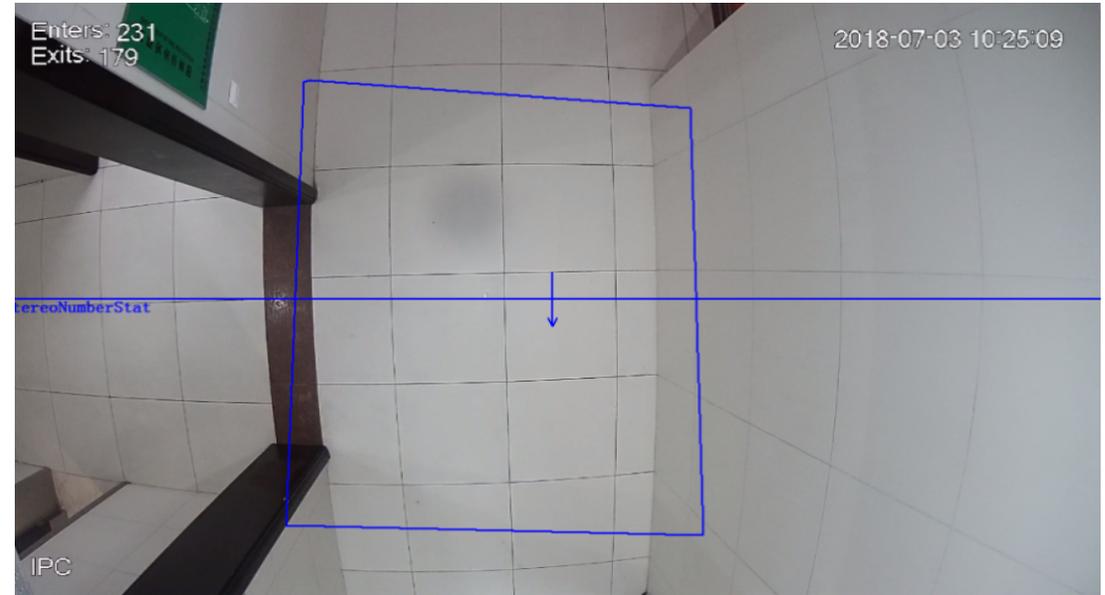
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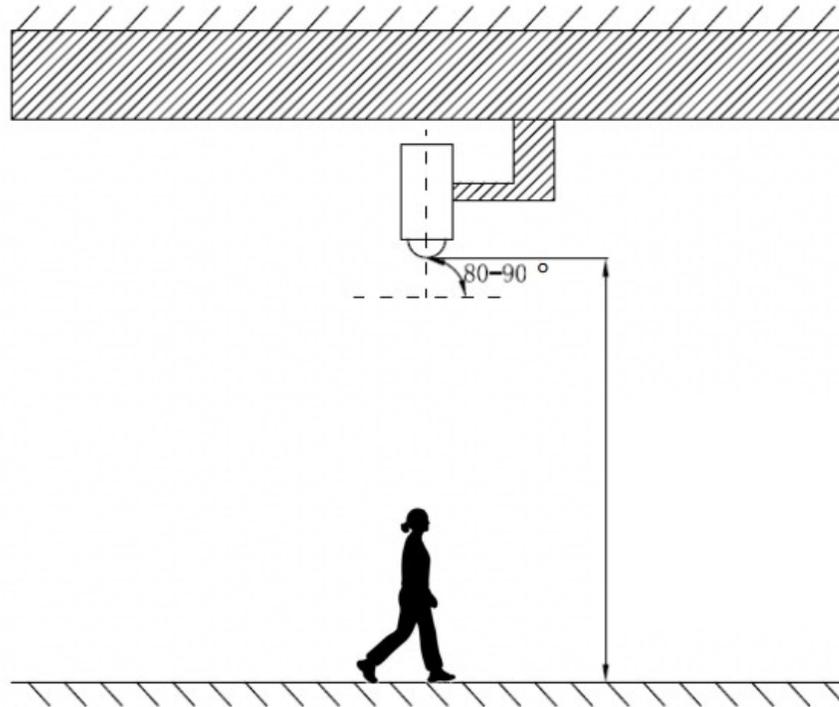
Installation

1. The installation site must be bright enough, at least to ensure the head and shoulder contour of people in the detection area is clear.
2. Avoid a complex scenario with frequently changing light, backlight, and direct light exposure.
3. People count is more accurate where people largely flow in one direction and the camera is installed to directly face against the mainstream flow.

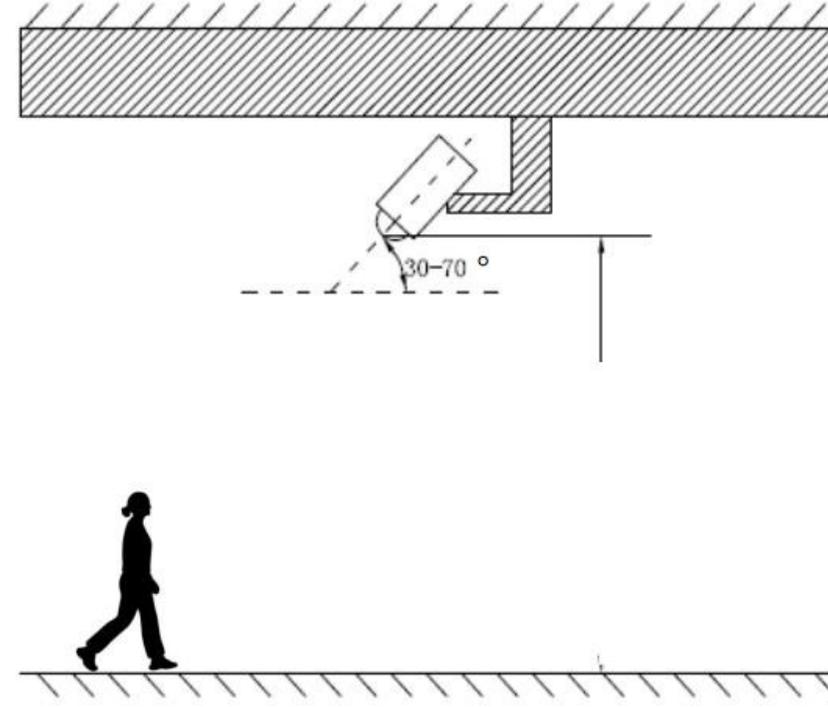


1. Uniform light
2. Direction of the customer flow is fixed
3. The camera looks straight down at the human head and shoulders, Pedestrian direction and rule line are perpendicular, the people who are standing in the center, if the head and shoulders can block the feet, it means the camera is top-mounted.





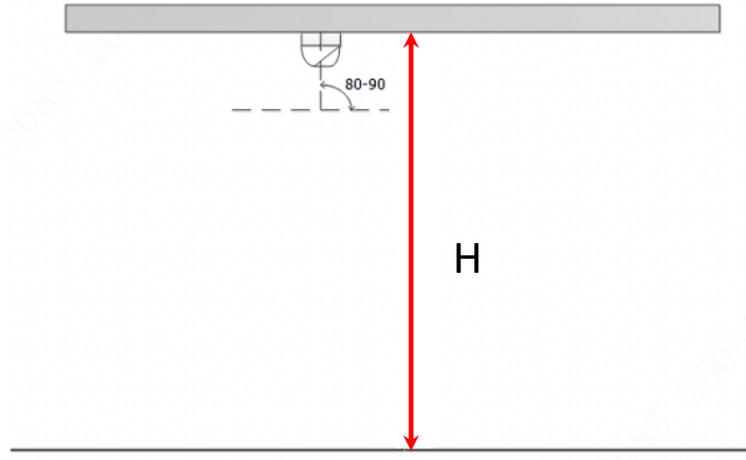
Top-mounting
(80-90° Angle)



Angle mounting
(30-70° Angle)



Dual-Lens People counting Camera
IPC-HDW8341X-3D-S2

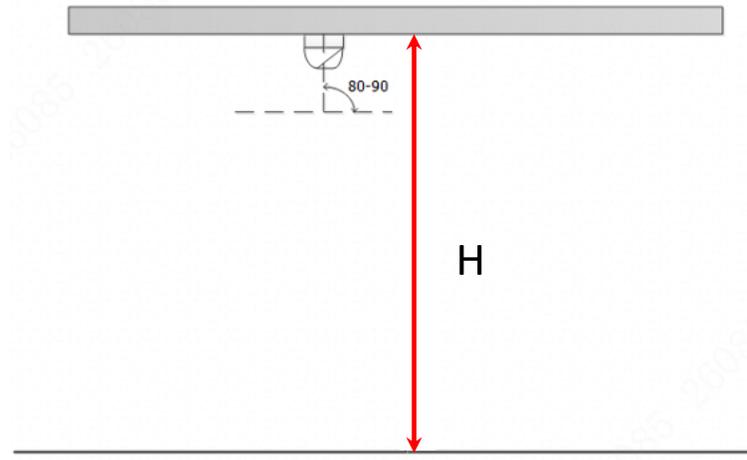


Installation diagram of 4MP dome camera
2.2 < H < 3.0 meters

Product Model	Focal length (mm)	Height range (m)	Installation height (m)	Available Length(m)	Available width(m)	Available area
IPC-HDW8341X -0280B-S2	2.8	2.2 < H < 3.0	2.2	1.1	0.6	0.77
			2.6	1.8	1.1	1.98
			2.8	2.4	1.5	3.75
			3.0	2.8	1.8	5.24



Network Dome Camera
HDBW5442E-ZE



Installation diagram of 4MP dome camera
 $H \geq 3$ meters

Minimum Installation height 3M

Installation	Camera resolution	Focal length/mm	Max installation height/m	Max channel width/m	Max channel thickness/m
Top-mounting (Recommended)	4MP	2.7~12	10	11.5	4.6

Installation	Camera resolution	Focal length/mm	Installation depression angle/°	Max installation height/m	Max monitoring distance/m
Angle mounting	4MP	2.7~12mm	45°	5.5	7.5



Dual-Lens People counting Camera
IPC-HDW8341X-3D-S2



Network Dome Camera
HDBW5442E-ZE



NVR(With HDD)
NVR5216-16P-4KS2



Monitor
DHL22-L200



Ethernet Cable



HDMI Cable



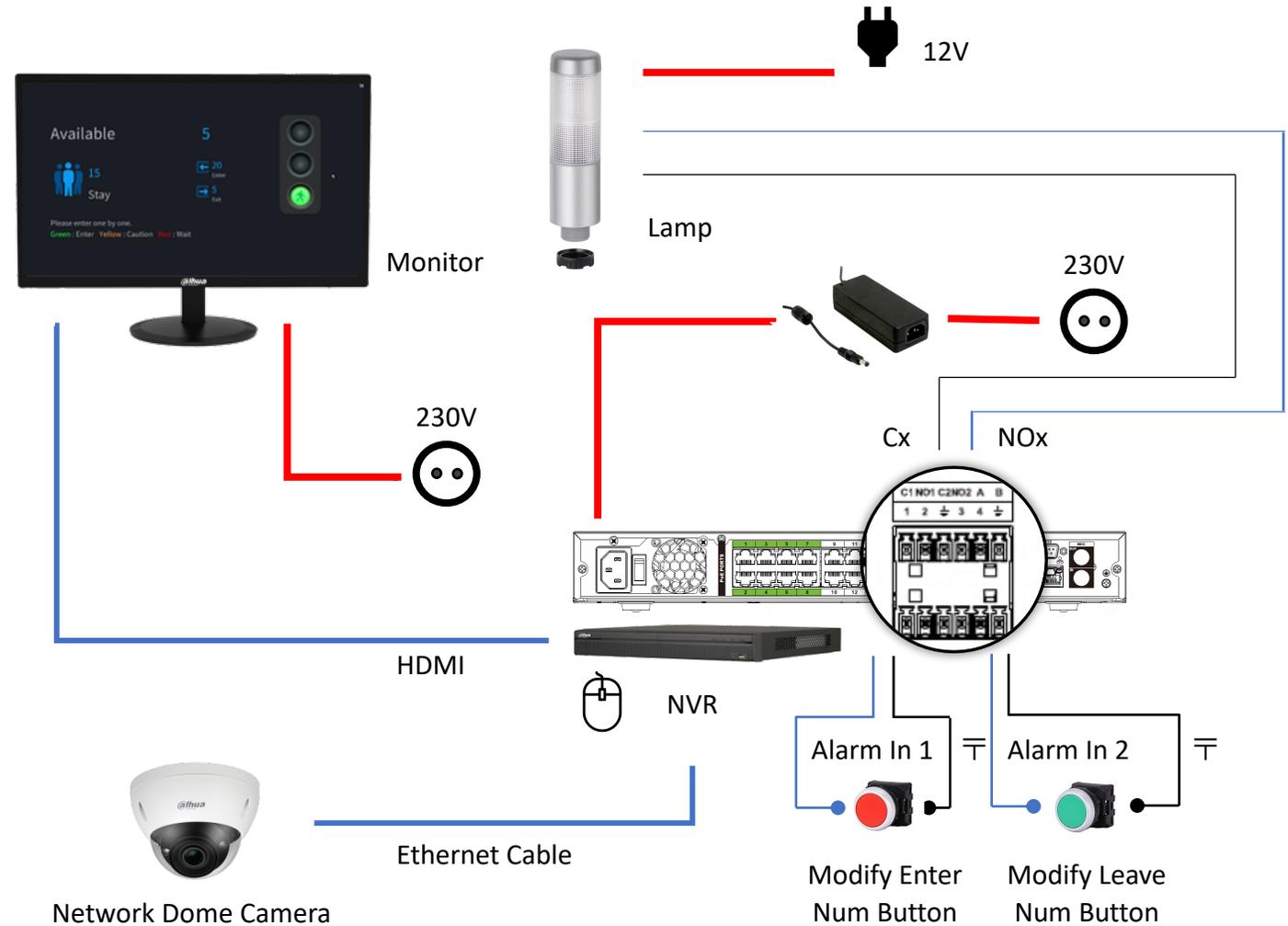
Click Button
(Not provided by Dahua)



Lamp

Wiring the devices

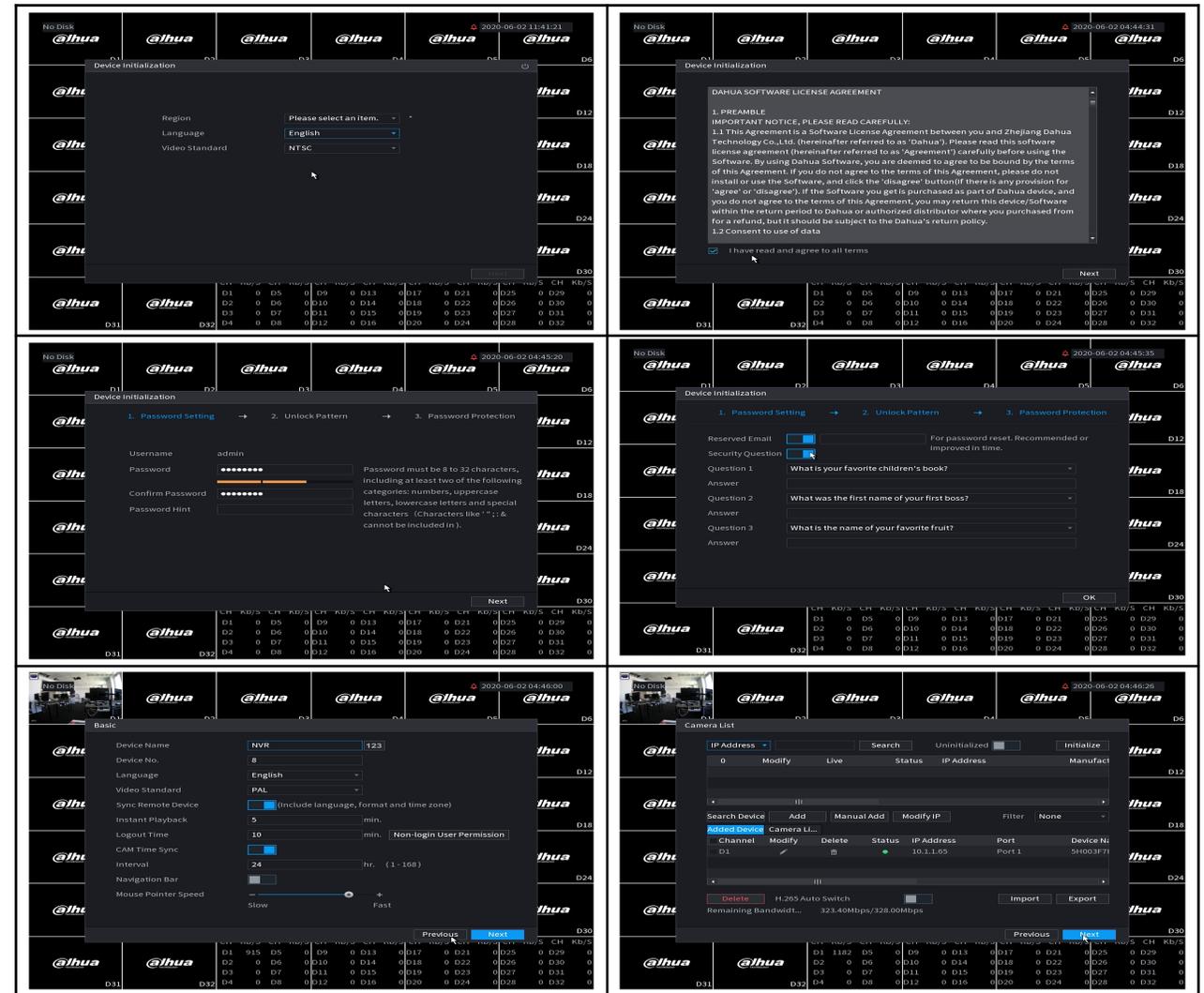
- Install the NVR and connect it to 230V, connect the mouse provided to control the NVR.
- Connect the camera to PoE port in NVR recorder rear panel with the ethernet cable provided.
- Connect 2 click buttons one end to the Alarm-in port 1/2, another end to GND.
- Install the monitor and connect it to 230V, connect the HDMI cable provided between Monitor and NVR.
- The control for the indicator lamp can use one pair of NO and C interfaces on the alarm terminal, the specific connection is based on the actual situation



Configuration

NVR Initialization & Startup Wizard

- After you start the NVR, the system will guide you step by step to complete the device initialization settings until it is completed, during which it cannot exit
- In this process, the device's language, password, secure email address and security questions are most important parts, which need to be entered carefully
- Due to the IPC camera is connected through the NVR's POE interface, the NVR will automatically assign an IP address to the IPC camera and automatically add it to the corresponding channel, so you do not need to perform any extra operations.
- The default IP address of NVR will be set to 192.168.1.108. If there are only NVR and several cameras in this system, the network address can be kept as default.

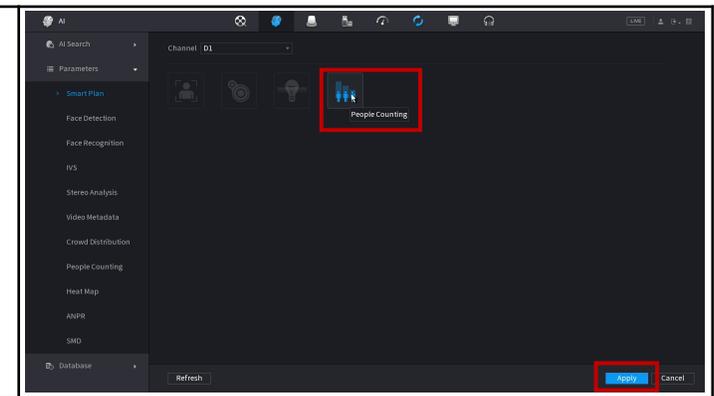


Function setting & parameter configuration

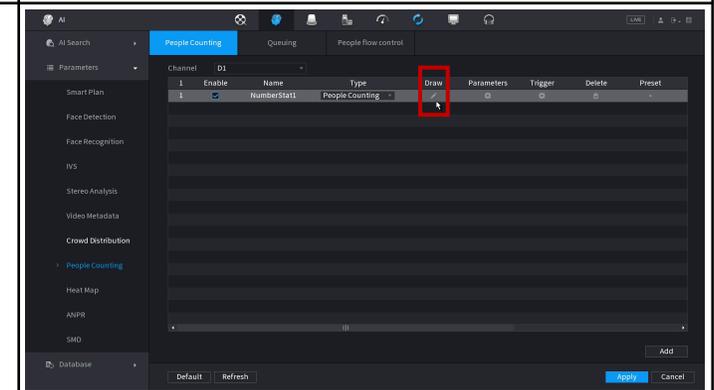
1. In the preview interface, click the mouse right button and select the “Main Menu”

2. Click on the “AI” module

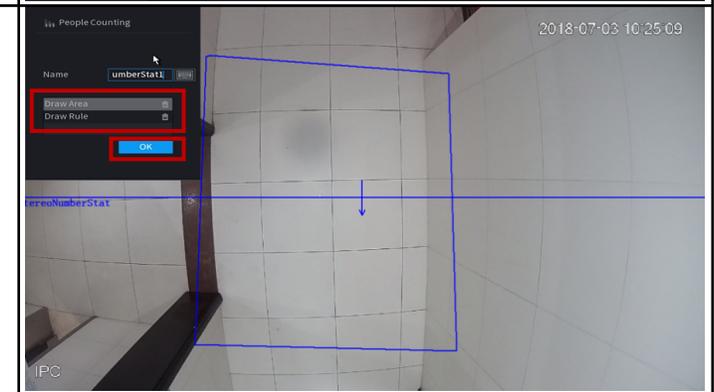
3. Go into **Parameters > Smart Plan**, then choose one camera channel, and enable the “People Counting”, then click the “Apply”



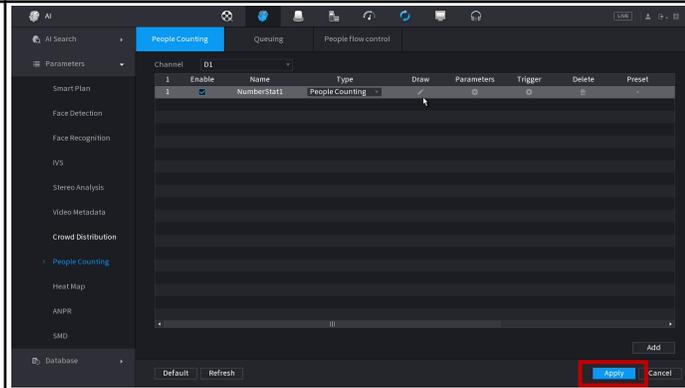
4. Go into **Parameters > People Counting > People Counting**, then choose the camera channel, then click “Draw”. (If the camera is brand new, the “type” will be set to “People Counting” as default)



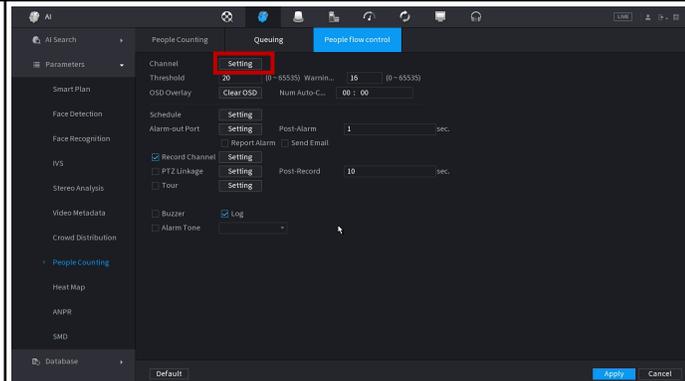
5. According to the actual scene, complete the drawing of the area and the trigger rule line. Then click “OK” to save the settings.



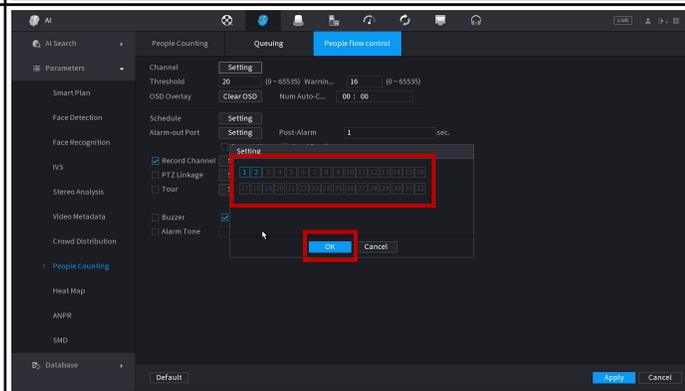
6. Click “Apply” to save the rule settings



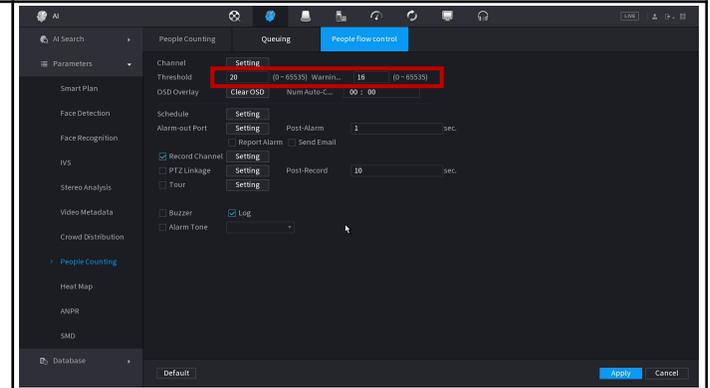
7. Go into Parameters > People Counting > People Flow Control, Click the “Setting” of Channel



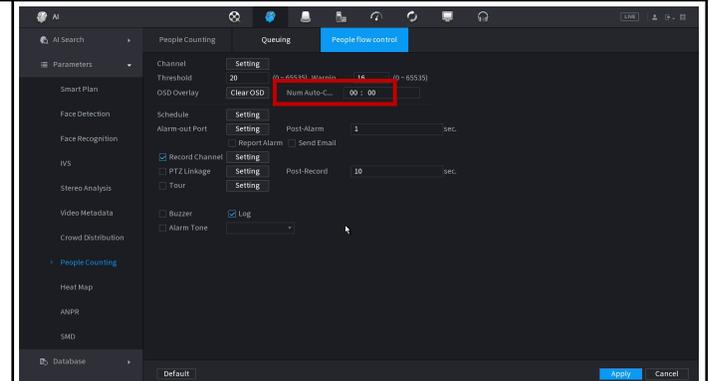
8. According to the actual installation situation, select the camera channels that needs to bind data. and then click "OK". Currently, the Maximum number of bonded channels supported is up to 8 channels



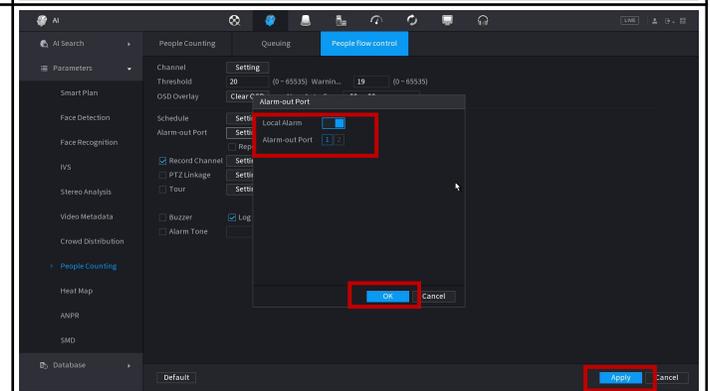
9. Enter the maximum number of allowed people flow in the “Threshold”, then enter number of the people flow warning value in “Warning Value”



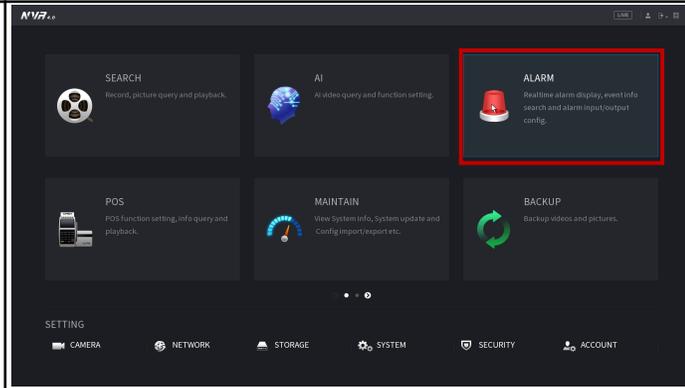
10. Set the time of automatically clear the number of people flow, the default is 00:00



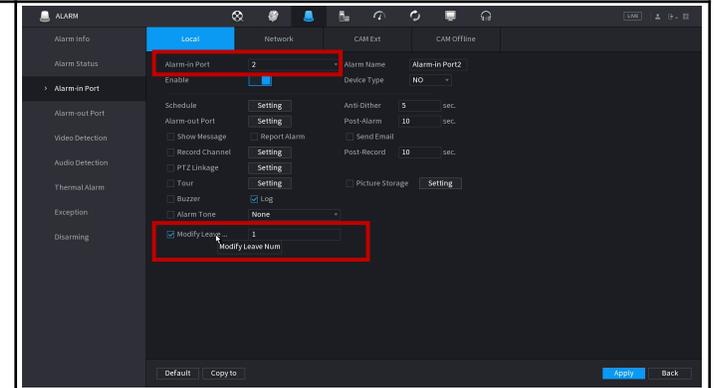
11. Click the Setting of “Alarm-out Port”, then enable the “Local Alarm”, and choose Which alarm-out Port you want to enable when the threshold alarm is triggered, then click “OK” and “Apply” to save the setting.



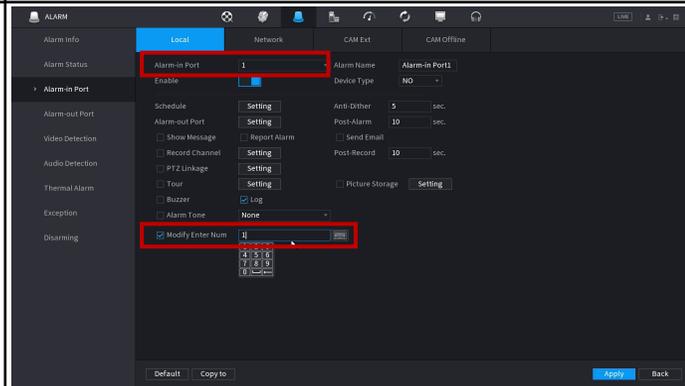
12. Go back to “Main Menu” and click on the “Alarm” module



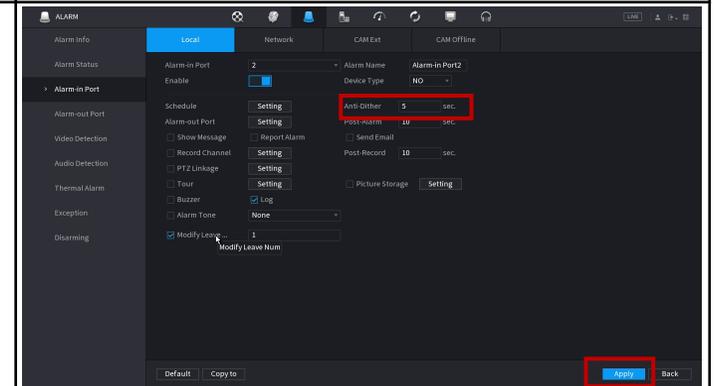
15. Choose alarm-in port “2”, enable the “Modify Leave Num”, and enter the number you want to modify per time when the local alarm-in 2 input



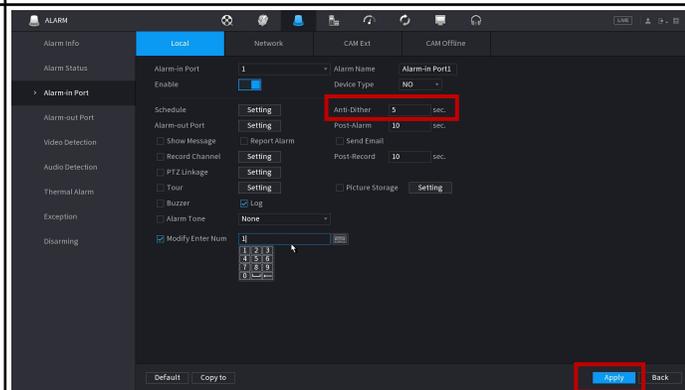
13. Go into **Alarm-in Port > Local**, and choose alarm-in port “1”, enable the “Modify Enter Num”, and enter the number you want to modify per time when the local alarm-in 1 input



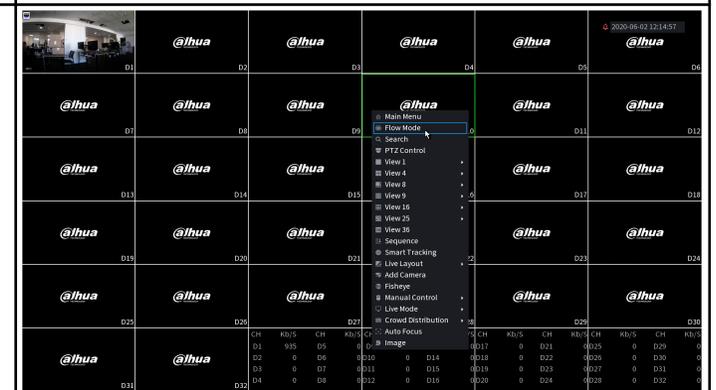
16. “Anti-Dither” is a time to prevent multiple input in a short time. If you want to adjust the number of people continuously and quickly, you can set it to “0”, then click “Apply”.



14. “Anti-Dither” is a time to prevent multiple input in a short time. If you want to adjust the number of people continuously and quickly, you can set it to “0”, then click “Apply”.



17. Go back to the preview interface, click the mouse right button and select the “Flow mode”



<p>18. Then the NVR will enter the display interface of Flow mode. It will show the number of available people can enter, the number of people stays, and three different color indicator lights to indicate different states</p>	<p>The interface displays 'Available' as 20 and 'Stay' as 0. A green indicator light is illuminated. The text 'Please enter one by one.' is shown, with a legend: Green : Enter, Yellow : Caution, Red : Wait.</p>
<p>19. When the number of available people is equal to or lower than the warning value, the indicator light will turn yellow, reminding the number of staying guests is approaching to the set value</p>	<p>The interface displays 'Available' as 4 and 'Stay' as 16. A yellow indicator light with an exclamation mark is illuminated. The text 'Please enter one by one.' is shown, with a legend: Green : Enter, Yellow : Caution, Red : Wait.</p>
<p>20. When the number of stays is equal to or greater than the set threshold, the indicator light will turn red, and the prompt message will change to "Please wait for the green light"</p>	<p>The interface displays 'Available' as 0 and 'Stay' as 20. A red indicator light with a person icon is illuminated. The text 'Please wait for the green light.' is shown, with a legend: Green : Enter, Yellow : Caution, Red : Wait.</p>

<p>21. Only one button in the upper right corner of the interface can be used to exit "Flow Mode"</p>	<p>The interface displays 'Available' as 0 and 'Stay' as 20. A red indicator light with a person icon is illuminated. A zoom-out button (four arrows pointing outwards) is highlighted in the top right corner. The text 'Please wait for the green light.' is shown, with a legend: Green : Enter, Yellow : Caution, Red : Wait.</p>
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