Hanwha Techwin

New World Solutions

Technical Webinar

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Sr. Product & Technical Training Manager

Agenda & Notes

- Webinar Introductions
- Occupancy Monitoring Solution
- Face Mask Detection
    - P AI series
    - X series
- PVM with Slideshow function
- Coming Soon…
    - Estimated Body Temperature Detection Camera Preview
    - Social Distancing analytic software

1.This webinar is being recorded and will be available for replay and in pdf format. Please visit https://www.hanwhasecurity.com/trainings/webinars/ to view past webinars & sign up for future ones.

2. All participants have been put into listen only mode.

3. We will take Q&A time permitting and if time runs out to answer all of the questions, we will reply to you individually afterwards. Please use the Chat or Q&A section.

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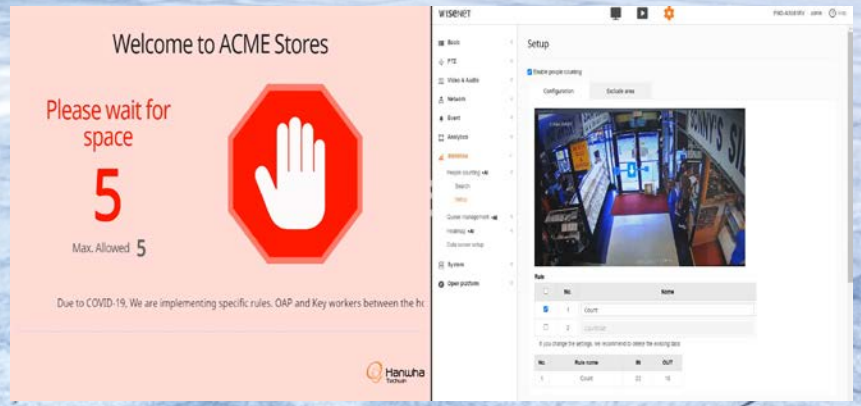
Occupancy Monitoring Application

- Easy to configure
- Connect up to 8 AI cameras
- Customized messaging
- Manual correction feature
- Alarm output to trigger lights, audio, door, etc..
- Combine with decoder, VMS, etc.
- Local reporting available



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Requirements:

Wisenet P series AI Camera
People Counting analytic configured
Method to Display the Occupancy Status

- WAVE Client
- Monitor w/ Decoder
- Monitor w/ NVR
- PC w/ web browser
- RTSP stream to Smart Device

Occupancy Monitoring App .CAP File

- Download from website > Products > Software > Wisenet Open Platform Applications > Occupancy App

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1. Configure People Counting Analytic

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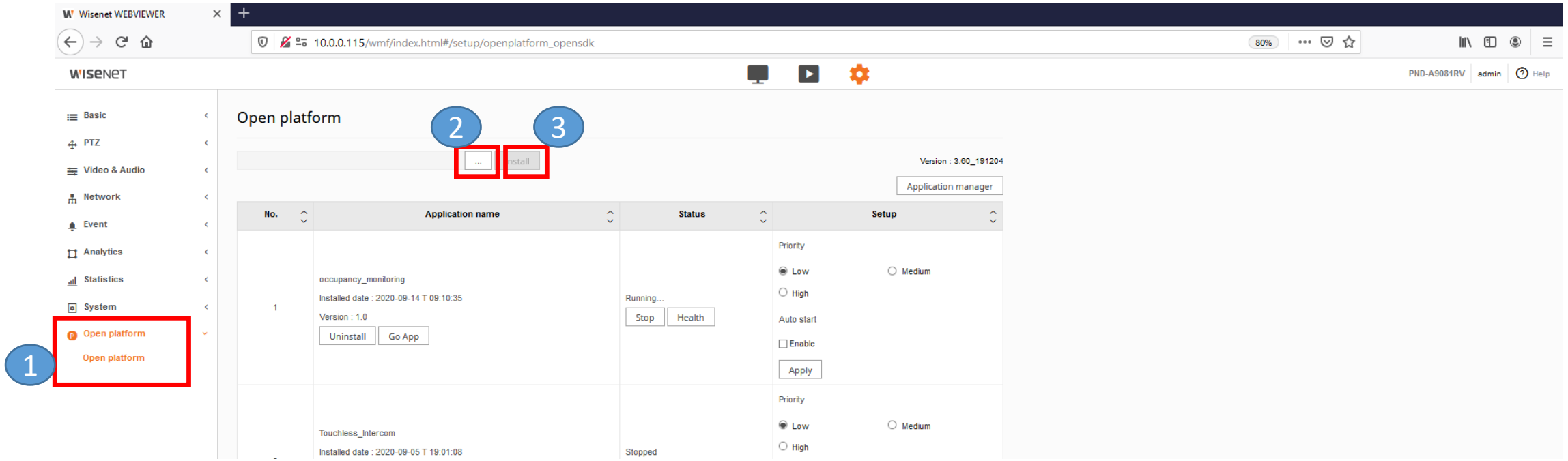
2. Install Open Platform App



1- Go to open platform menu
2- Click on the browse button […] to locate .CAP file
3- Click on the Install button

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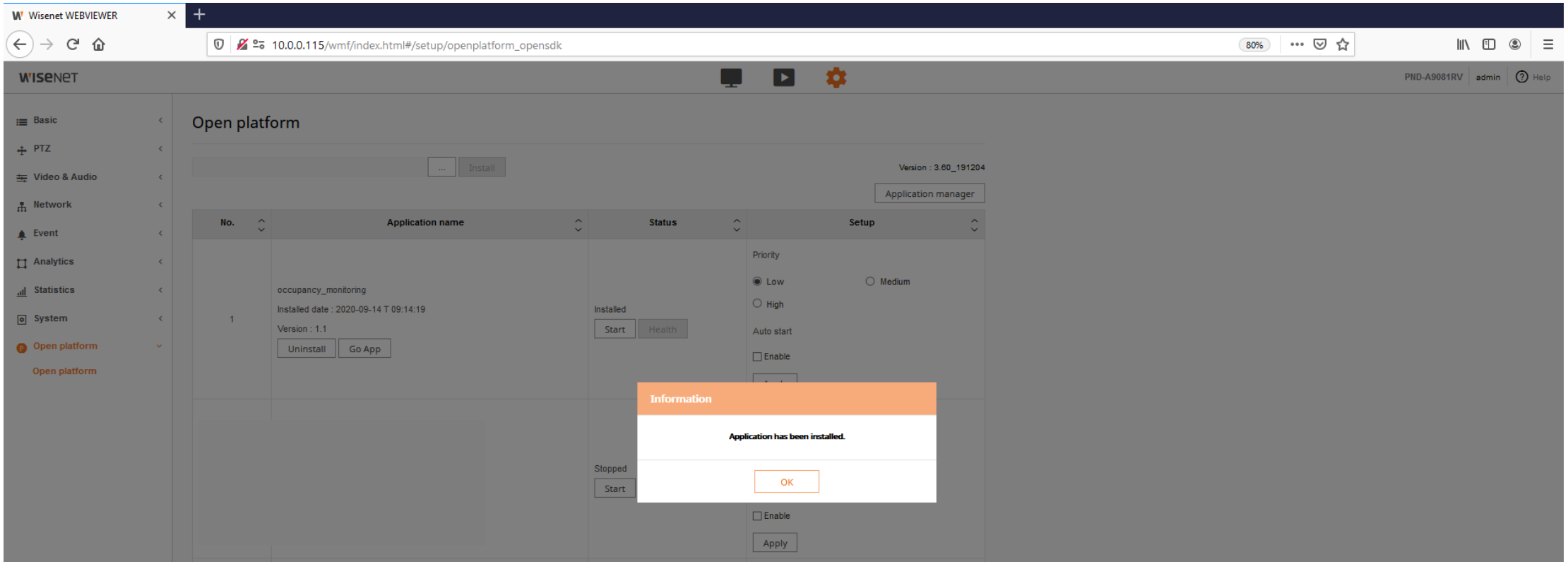
2. Install Open Platform App



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3. Monitor Screen Customization

Monitor screen overview

You can check the monitor screen to see how the settings in the application is displayed on the monitor. Visitors can view the information of the current number of occupants on a monitoring device. The [Monitor screen] page opens when you click [Apply] on the Occupancy Monitoring Application setup page.

Editing monitor screen

You can edit the information shown on the monitor screen. To go to the monitor screen editing page click [Go edit] on the Setup page.

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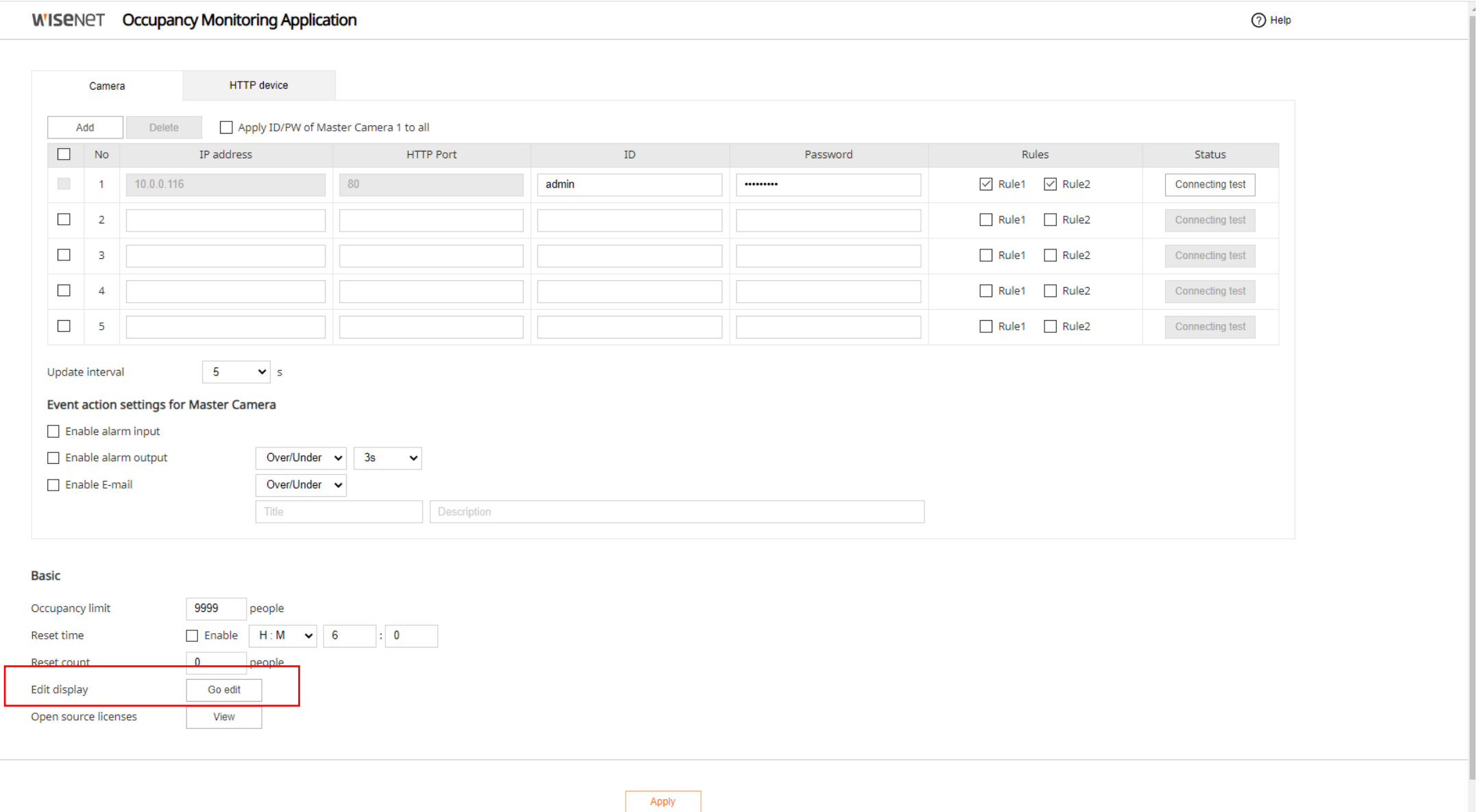
3. Monitor Screen Customization



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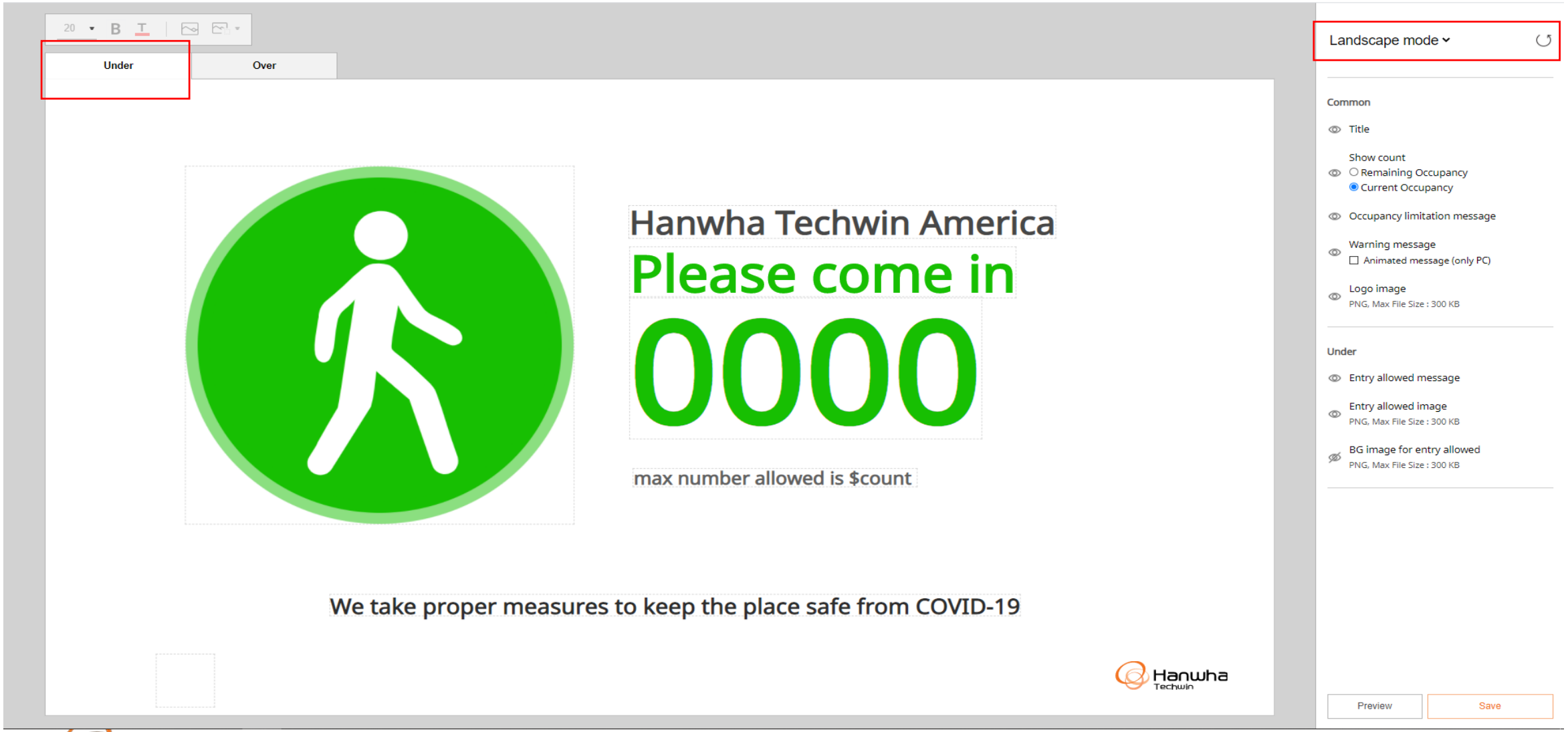
3. Monitor Screen Customization – Under / Over Screen View Mode - Landscape ((1920x1080).)/ Portrait orientation (1080x1920).



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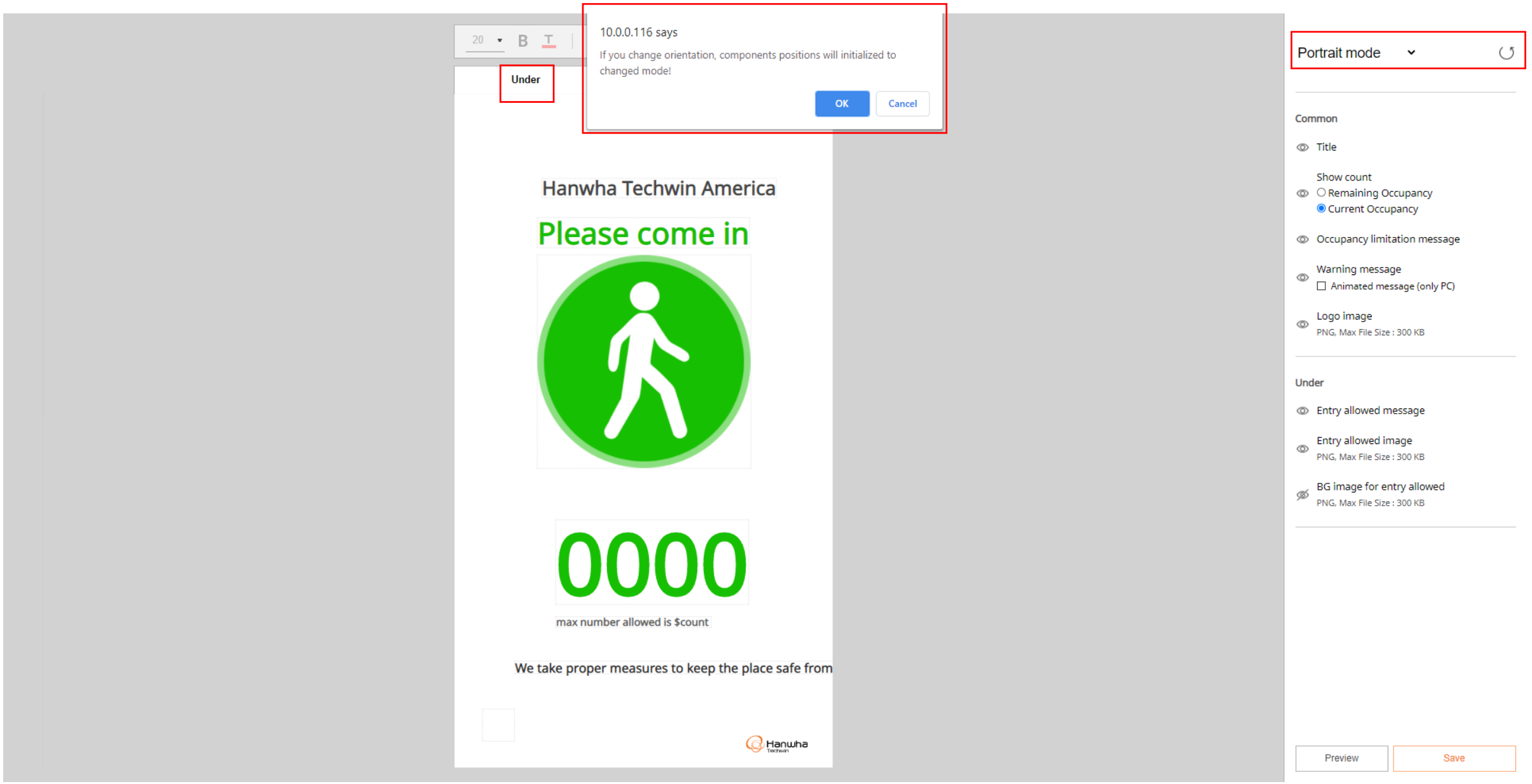
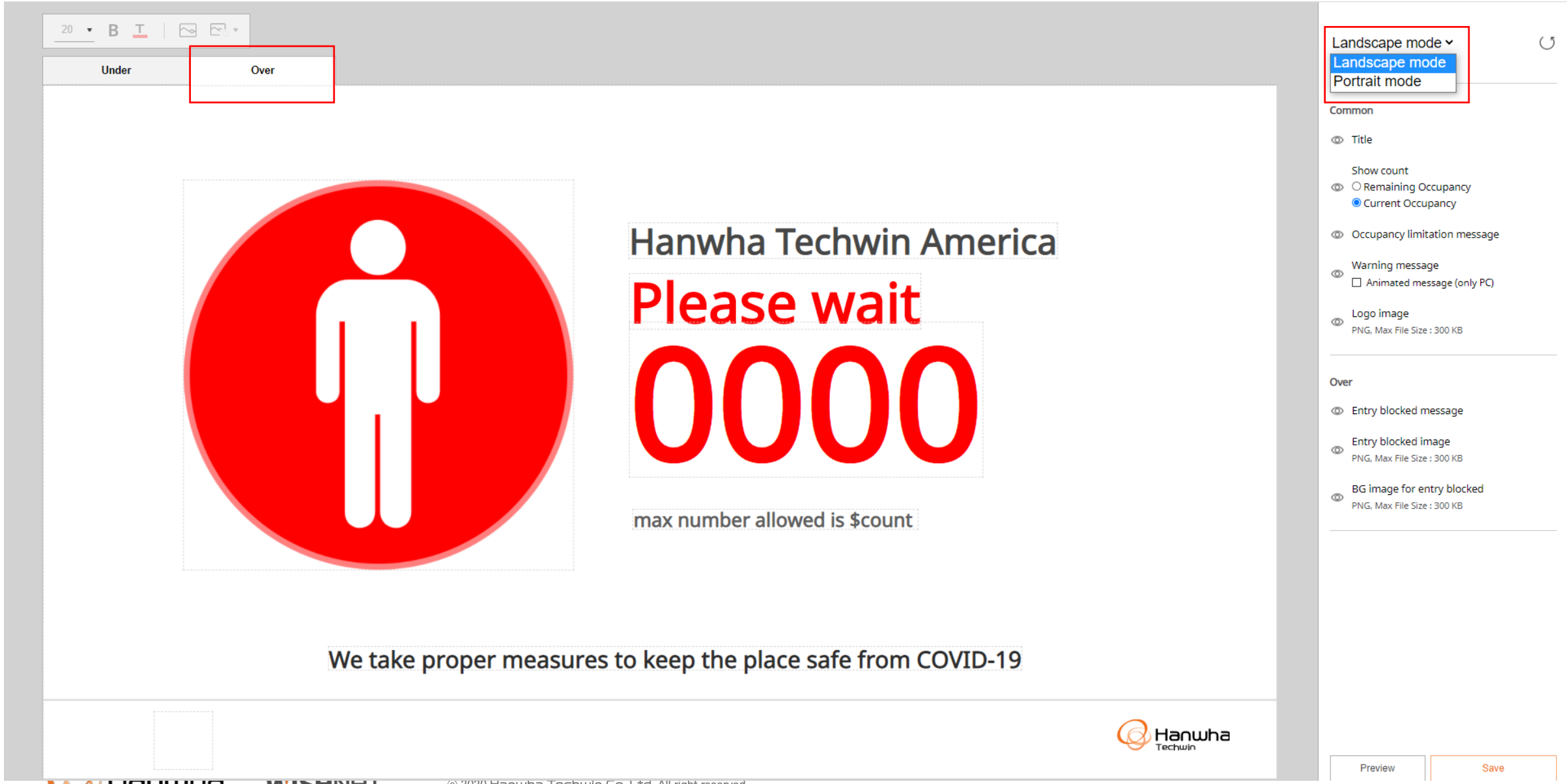
3. Monitor Screen Customization – Under / Over Screen - Landscape / Portrait orientation



3. Monitor Screen Customization - Under / Over Screen - Landscape / Portrait orientation



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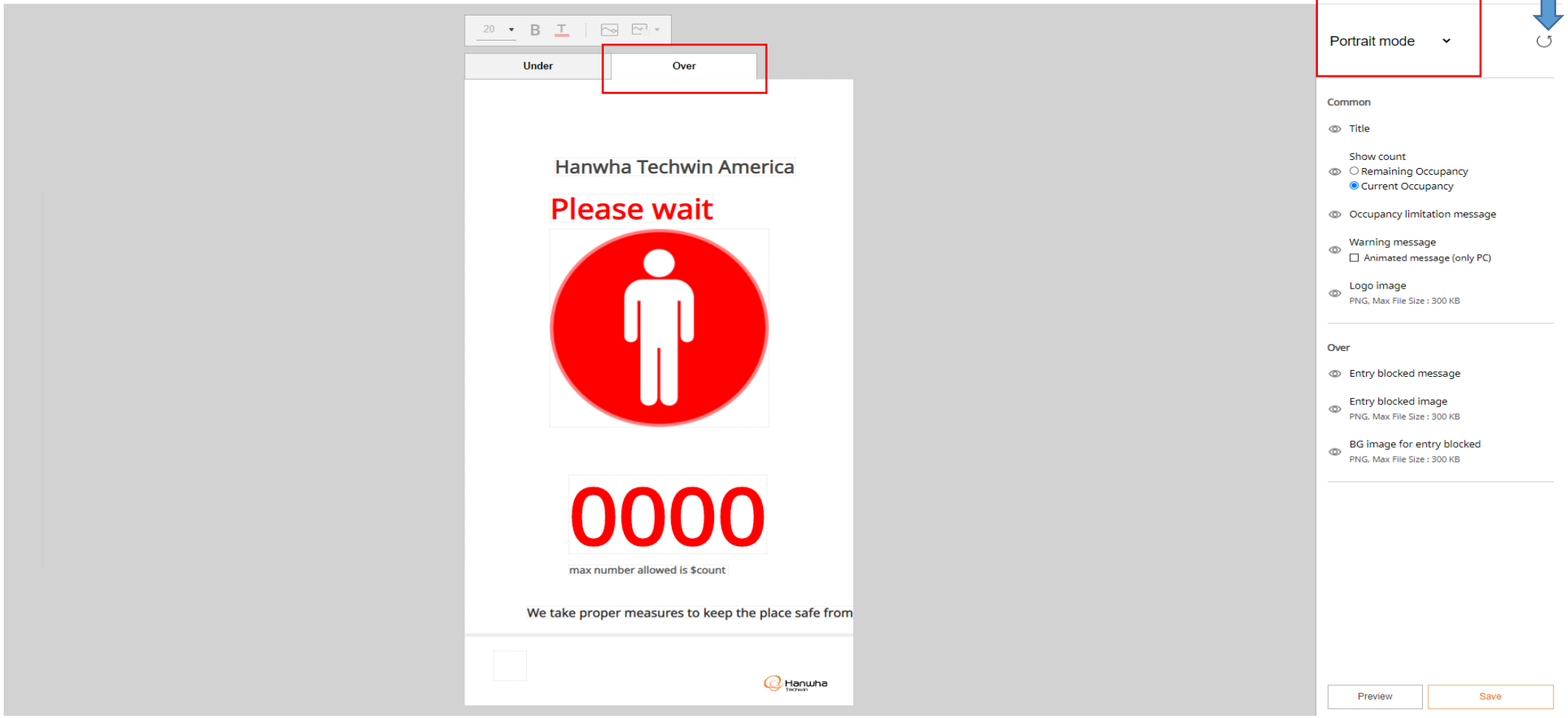
3. Monitor Screen Customization - Under / Over Screen - Landscape / Portrait orientation

Click to go back to Landscape



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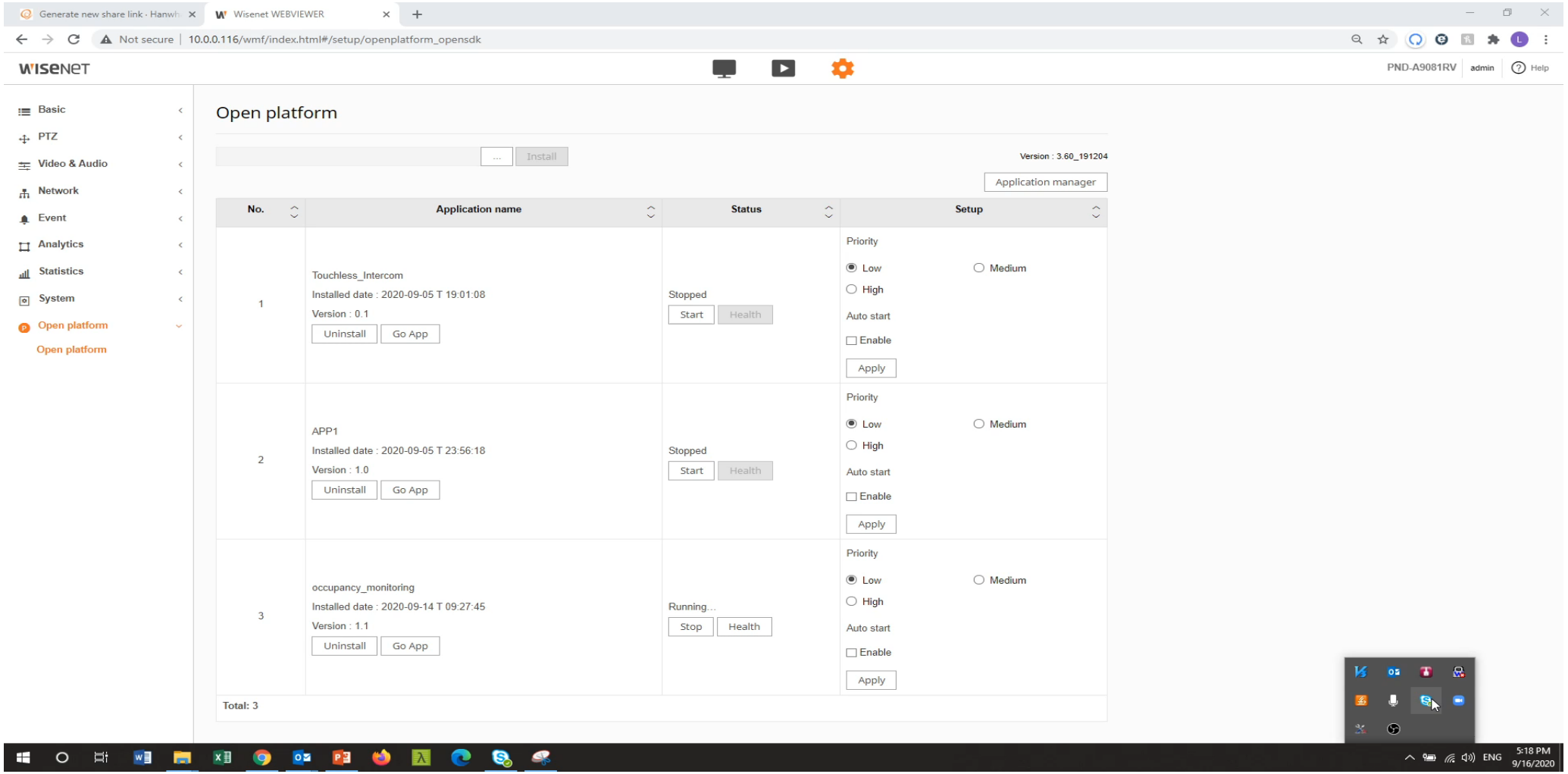
3. Monitor Screen Customization - Under / Over Screen – Page Components Positioning and editing



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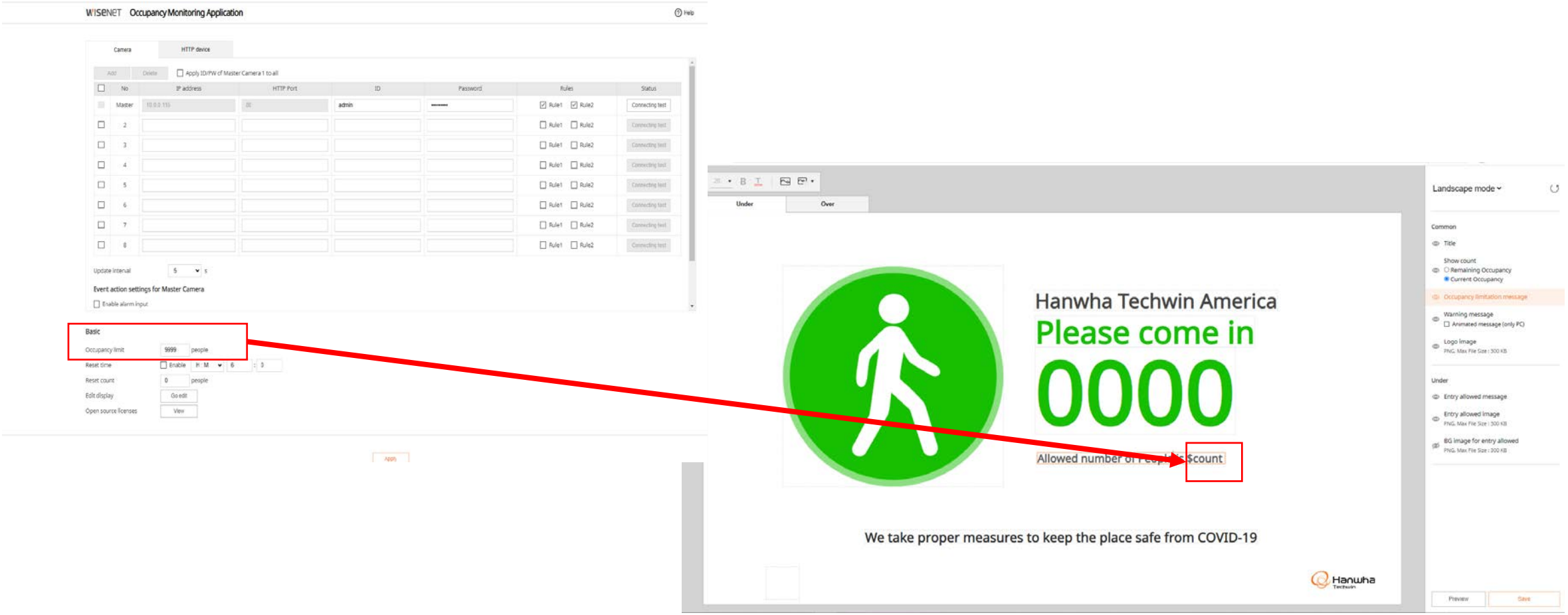
3. Monitor Screen Customization – Occupancy Limitation Message - $count

The message contains the Placeholder $ count , which will be replaced by the occupancy limit value



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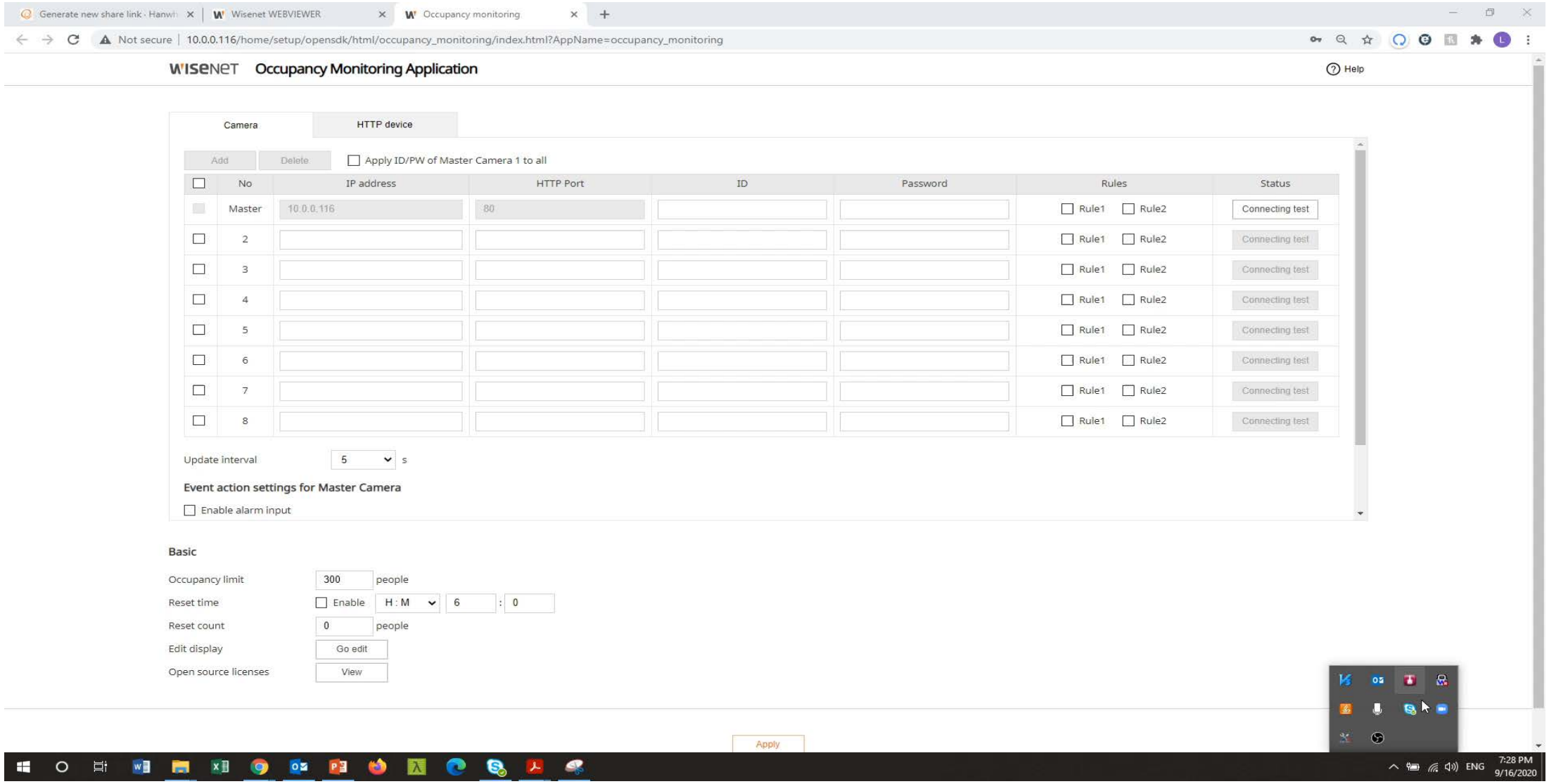
3. Monitor Screen Customization – Occupancy Limitation Message - $count



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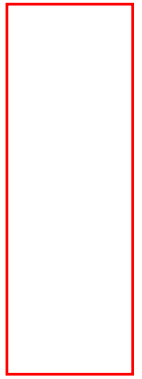
4. Setting up application– Alarm Output / Trigger source - Duration

Alarm output: Selecting [Enable alarm output] activates the alarm output feature already set when an event is triggered in the Occupancy Monitoring Application. The details of alarm output can be set under [Event]>[Alarm output] of the master camera.
If you want to output alarm when the maximum occupancy limit you set is exceeded, select [Over]. If you want to output alarm when the current occupancy is less than the maximum occupancy limit you set, select [Under]. If you want to send alarm in both cases, then select [Under/Over]. The maximum occupancy limit can be changed in [Occupancy limit].
Enter alarm output time in seconds.



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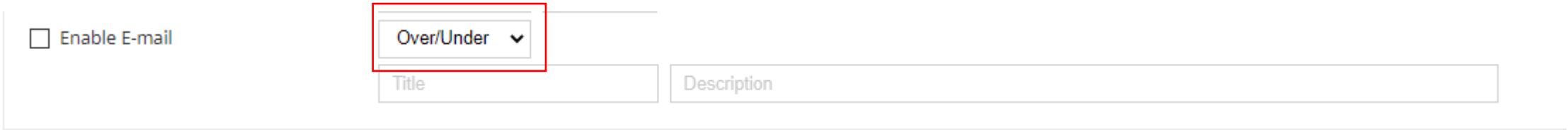
4. Setting up application– Email Notification / Trigger source - Duration

E-mail: Selecting [Enable E-mail] activates the set e-mail when an event is triggered in Occupancy Monitoring Application. If you want to send an e-mail when the maximum occupancy limit you set is exceeded, select [Over]. If you want to send an e-mail when the current occupancy is less than the maximum occupancy limit you set, select [Under]. If you want to send alarm in both cases, then select [Under/Over].
Enter the e-mail subject in the [Title] field. Only alphabetic characters, numbers, blanks, and , . ( ) ! : ; ~ ` / can be entered up to 60 characters.
Enter the e-mail body text in the [Description] field. Only alphabetic characters, numbers, blanks, and , . ( ) ! : ; ~ ` / can be entered up to 255 characters.



Note

To enable sending of e-mail, you have to go to the setup menu of the master camera, select **[Event]**>**[App event]**, and then set **[App event]** and **[E-mail]** options to **[Enable]**. E-mail can be set up under **[Event]**>**[FTP/E-mail]**>**[E-mail configuration]** of the master camera.

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4. Setting up application– Scheduled Reset and Reset Count Value

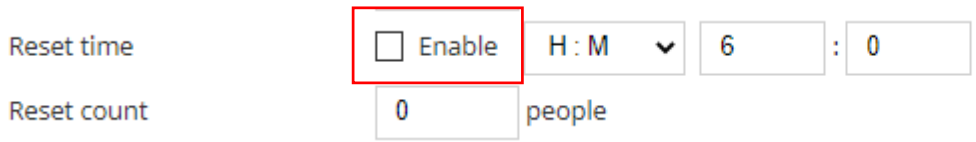
Reset time:

Can be Enabled or Disabled (This was not possible with Version 1) This will allow the Occupancy Monitor App to work in 24/7 environment

Enter the time to reset the number of occupants in [HH:MM] format. For example, if you enter [23:00], the number of occupants resets to the Reset Count Value at 11:00 PM.

Reset count:

Sets the reset value that is defaulted to when the reset is applied. This includes Scheduled and Manual reset



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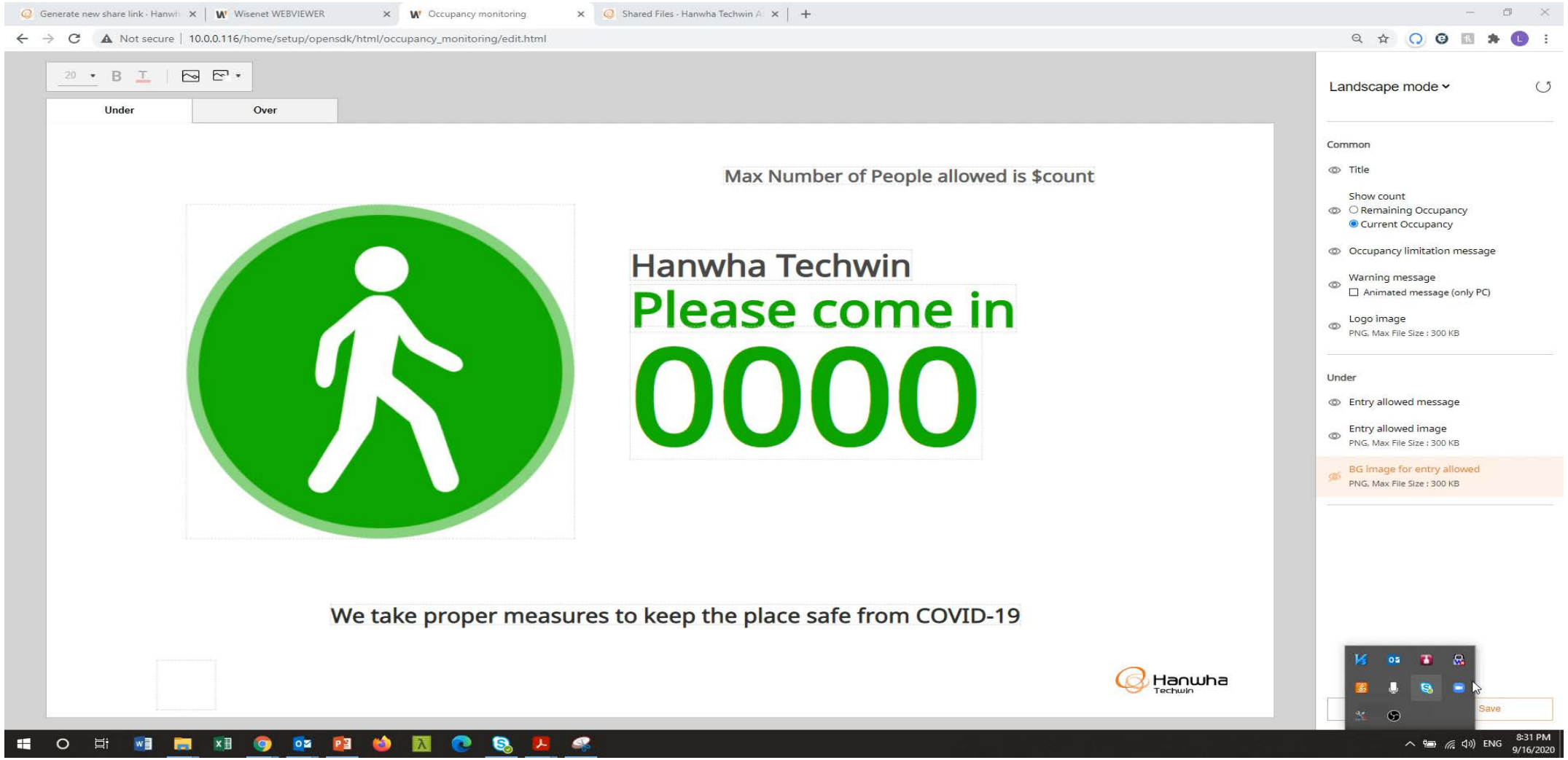
4. Setting up application– Background Image for Under/Over view



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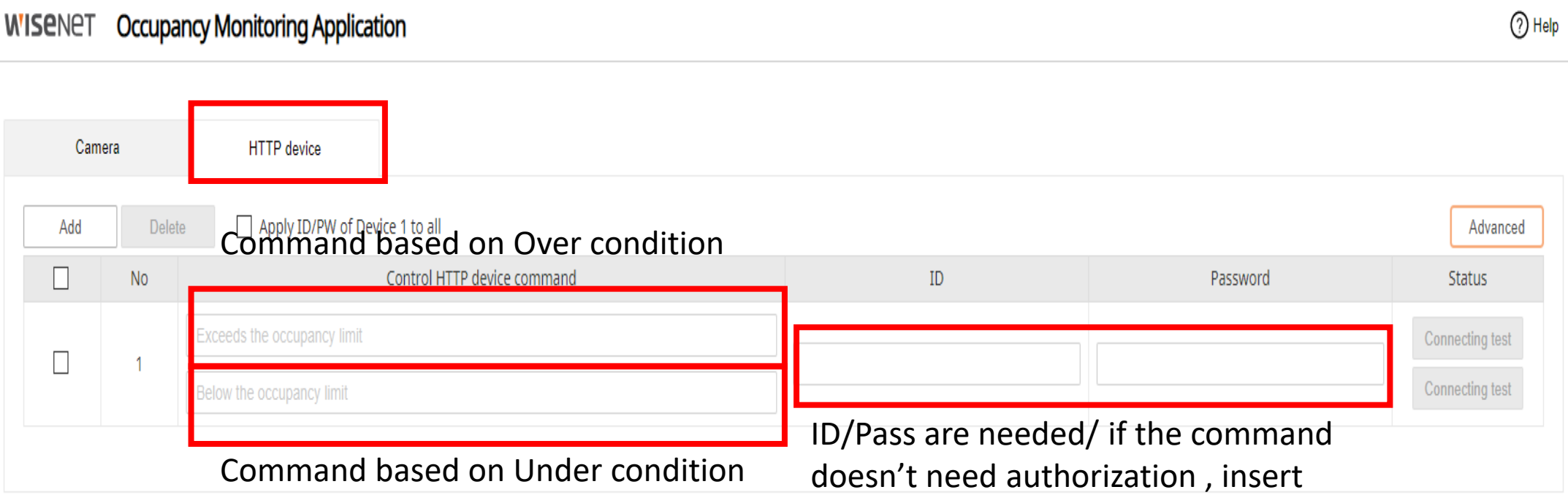
4. Setting up application– HTTP Device Setup



Command based on Over condition

Command based on Under condition

ID/Pass are needed/ if the command doesn't need authorization , insert dummy valuables

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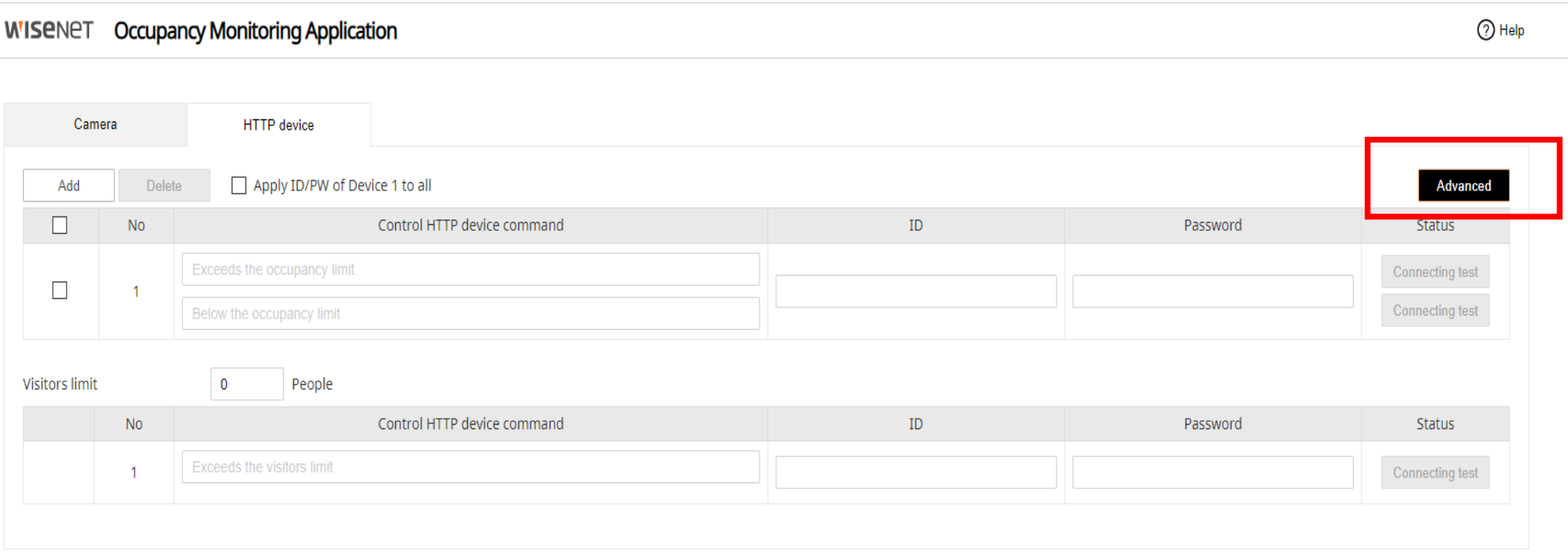
4. Setting up application– HTTP Device / Advanced



An HTTP event can be triggered at every interval based on the specific number of visitors. Every time the number of visitors equivalent to the value set in [Visitors limit] is reached, the device communicating over HTTP is activated periodically.

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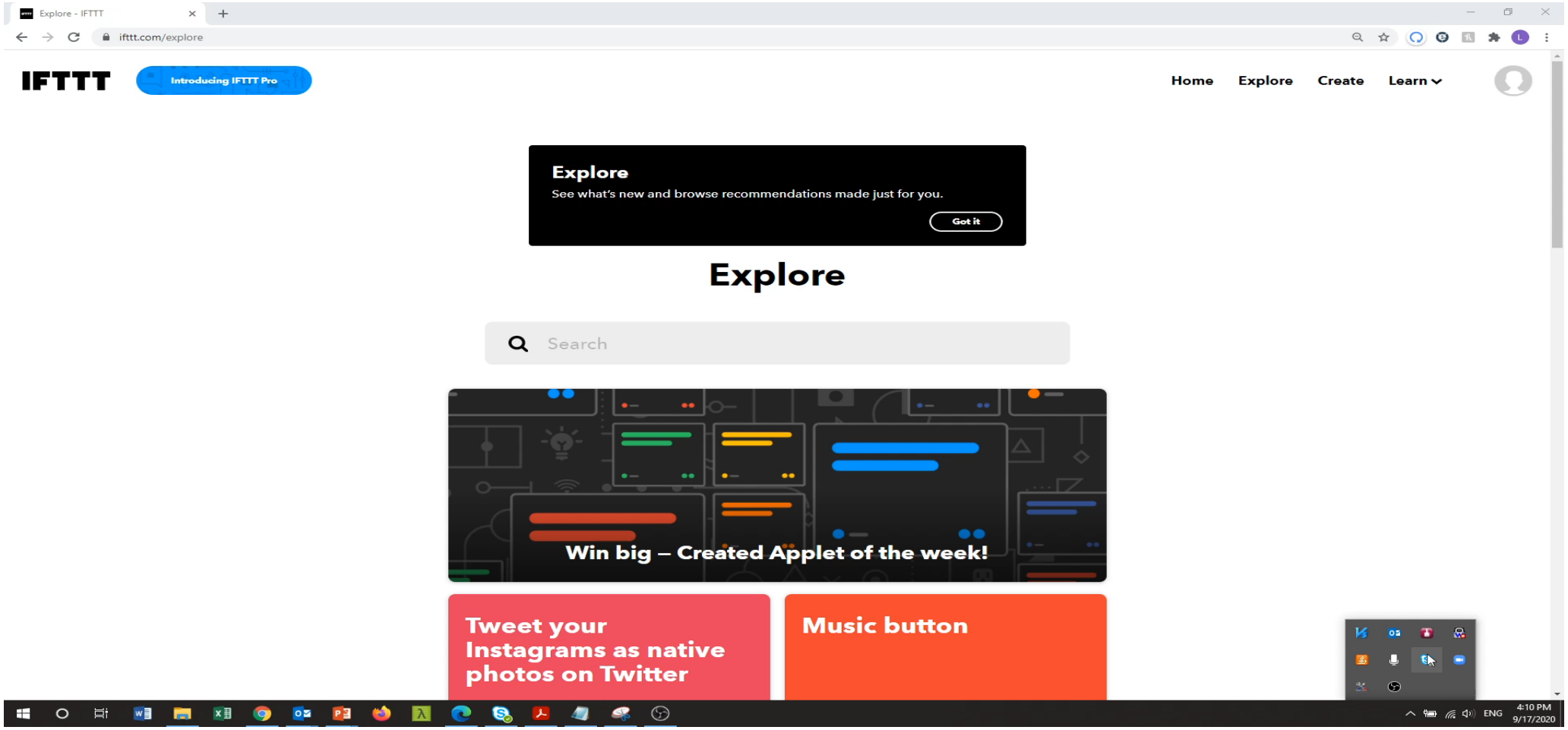
4. Setting up application– HTTP device Demo / IFTTT (If This Then That)



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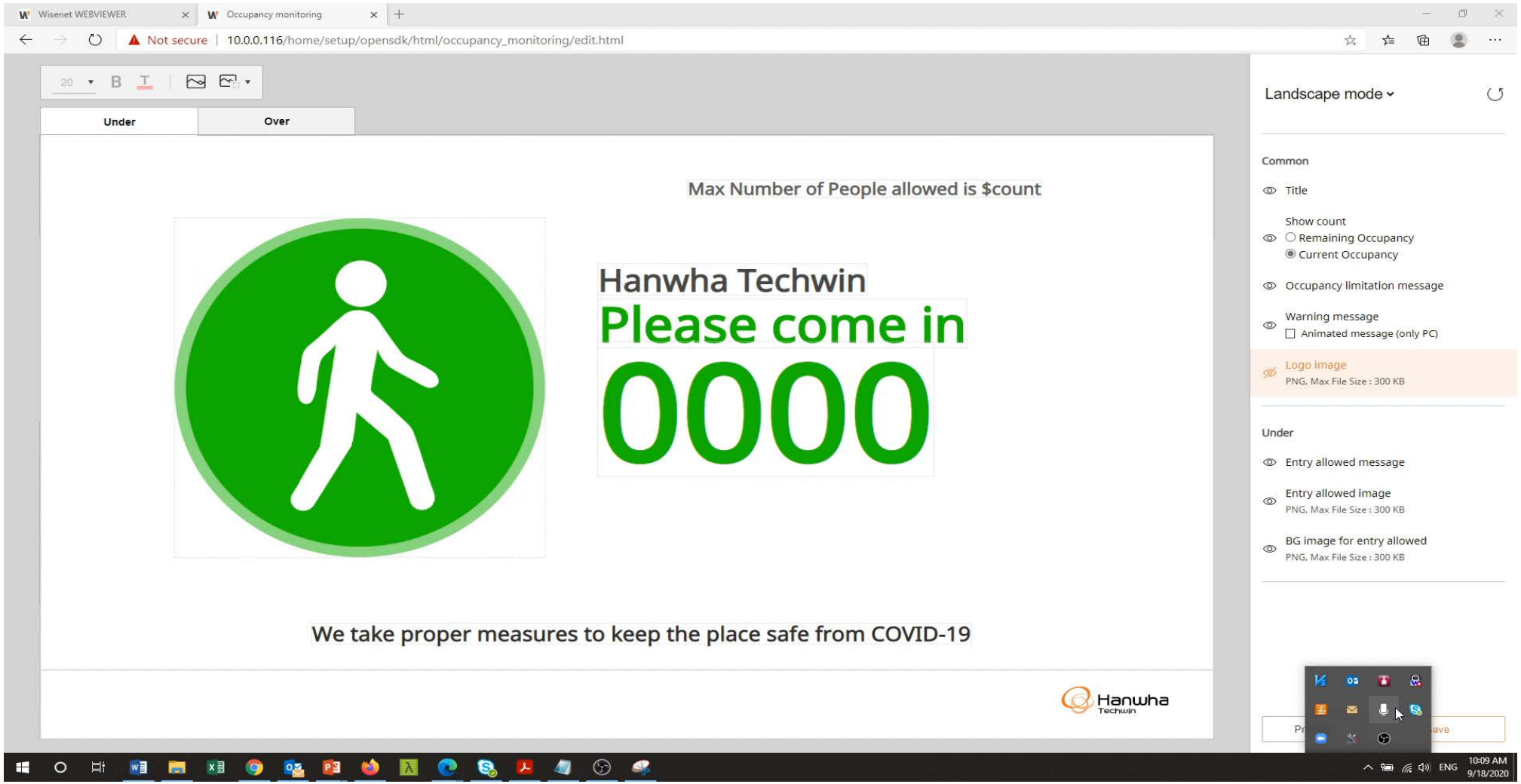
4. Setting up application– Logo image upload



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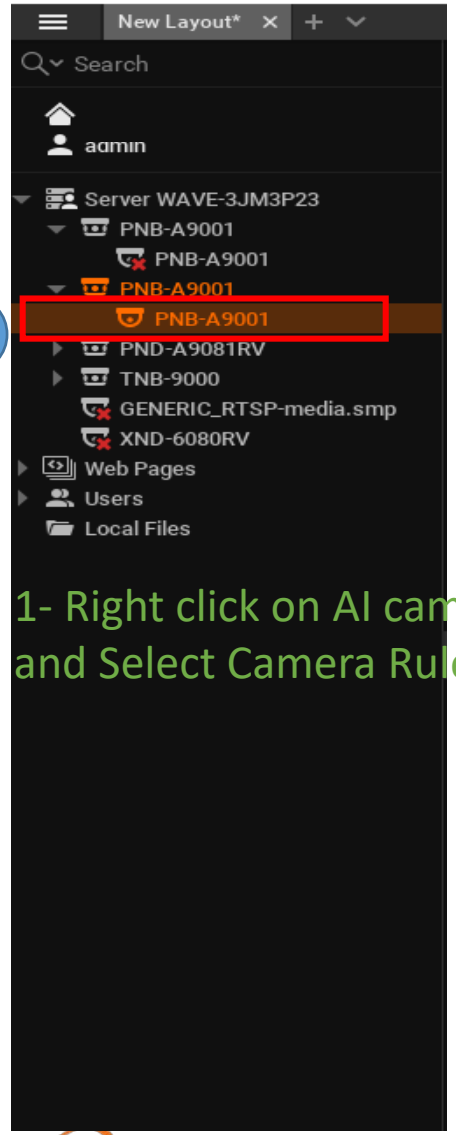
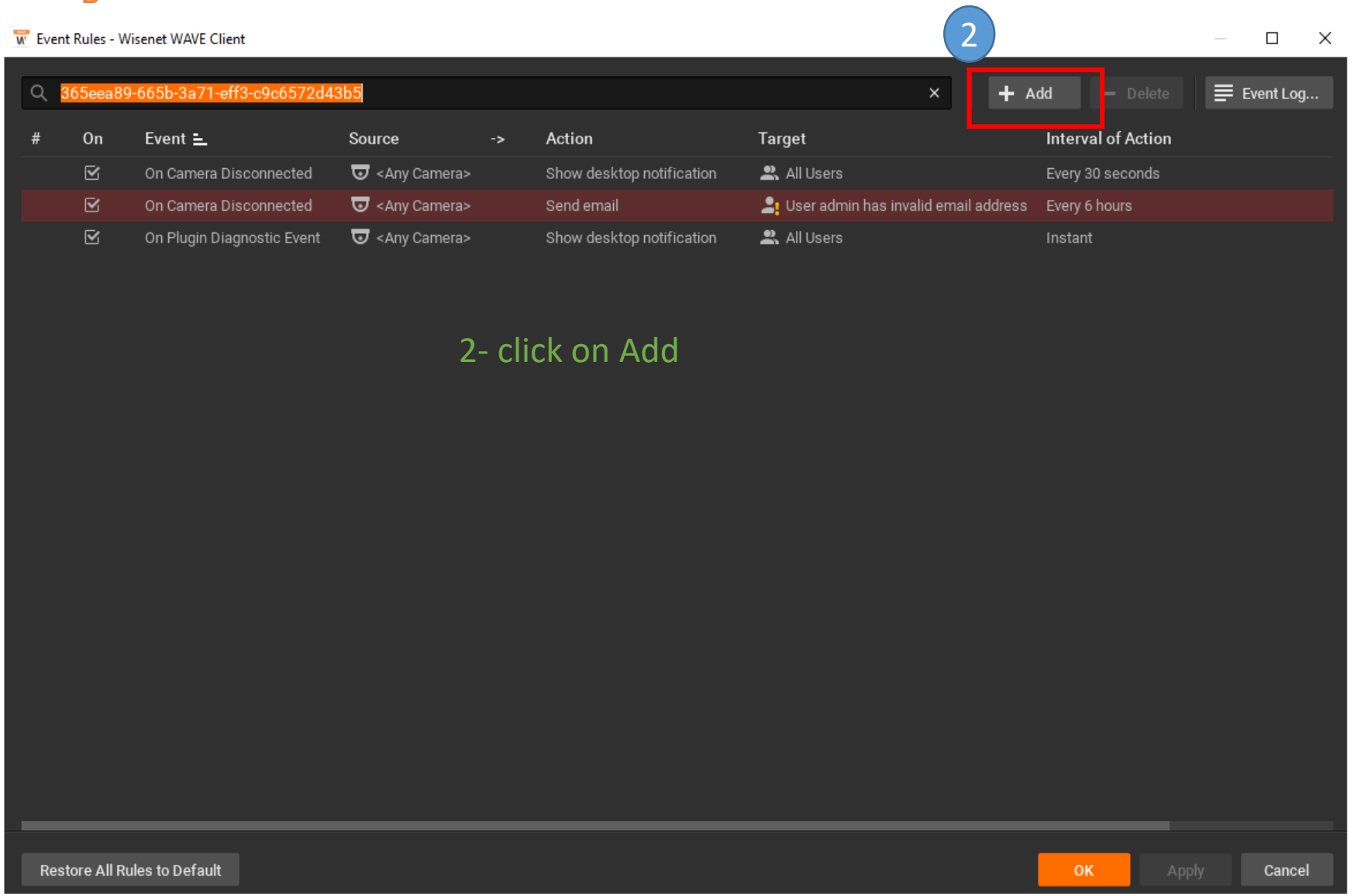
Setting up application– WAVE Integration



1- Right click on AI camera ch1 and Select Camera Rules



2- click on Add

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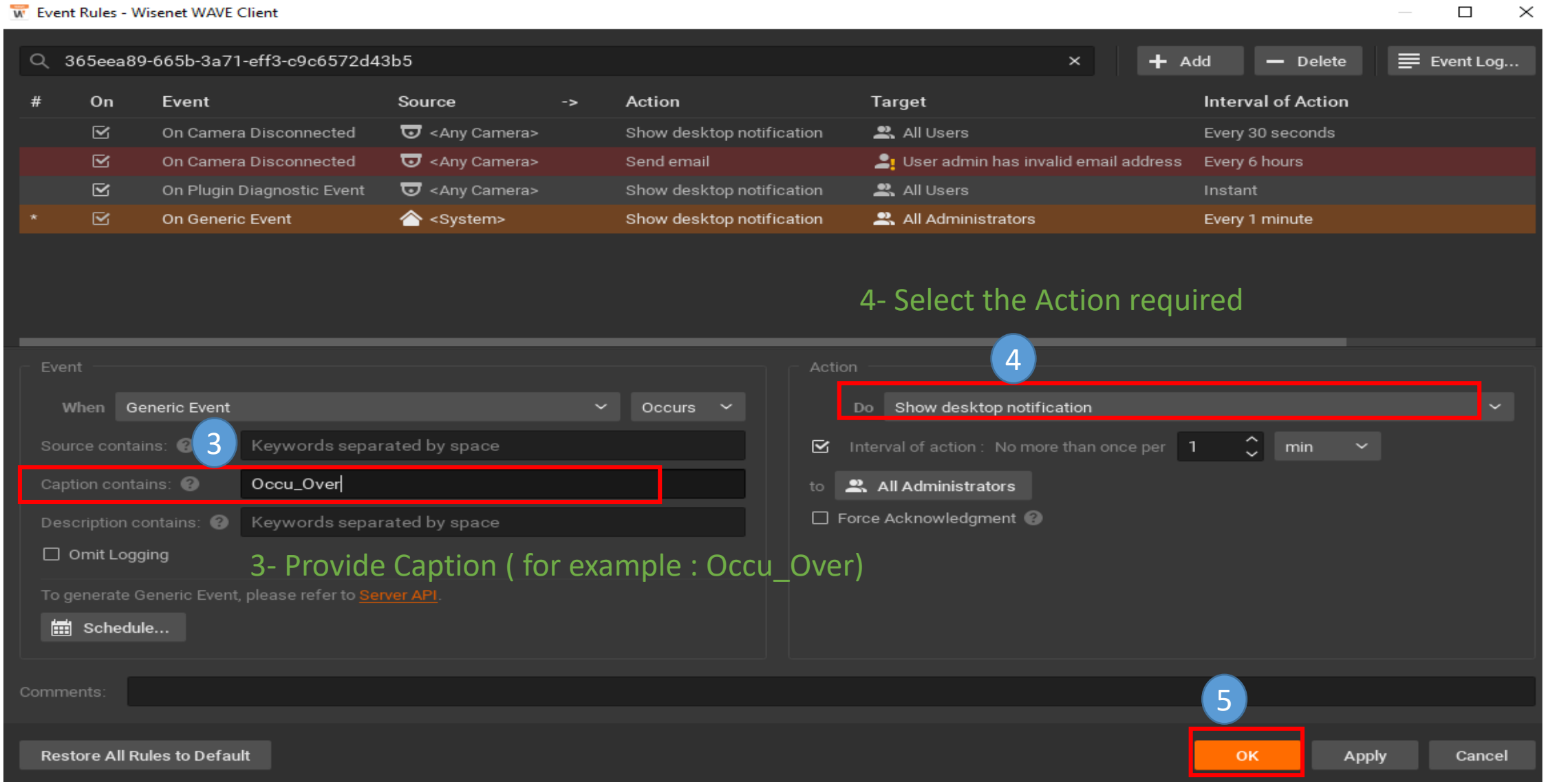
Setting up application– WAVE Integration – Over (Occupancy limit is exceeded)



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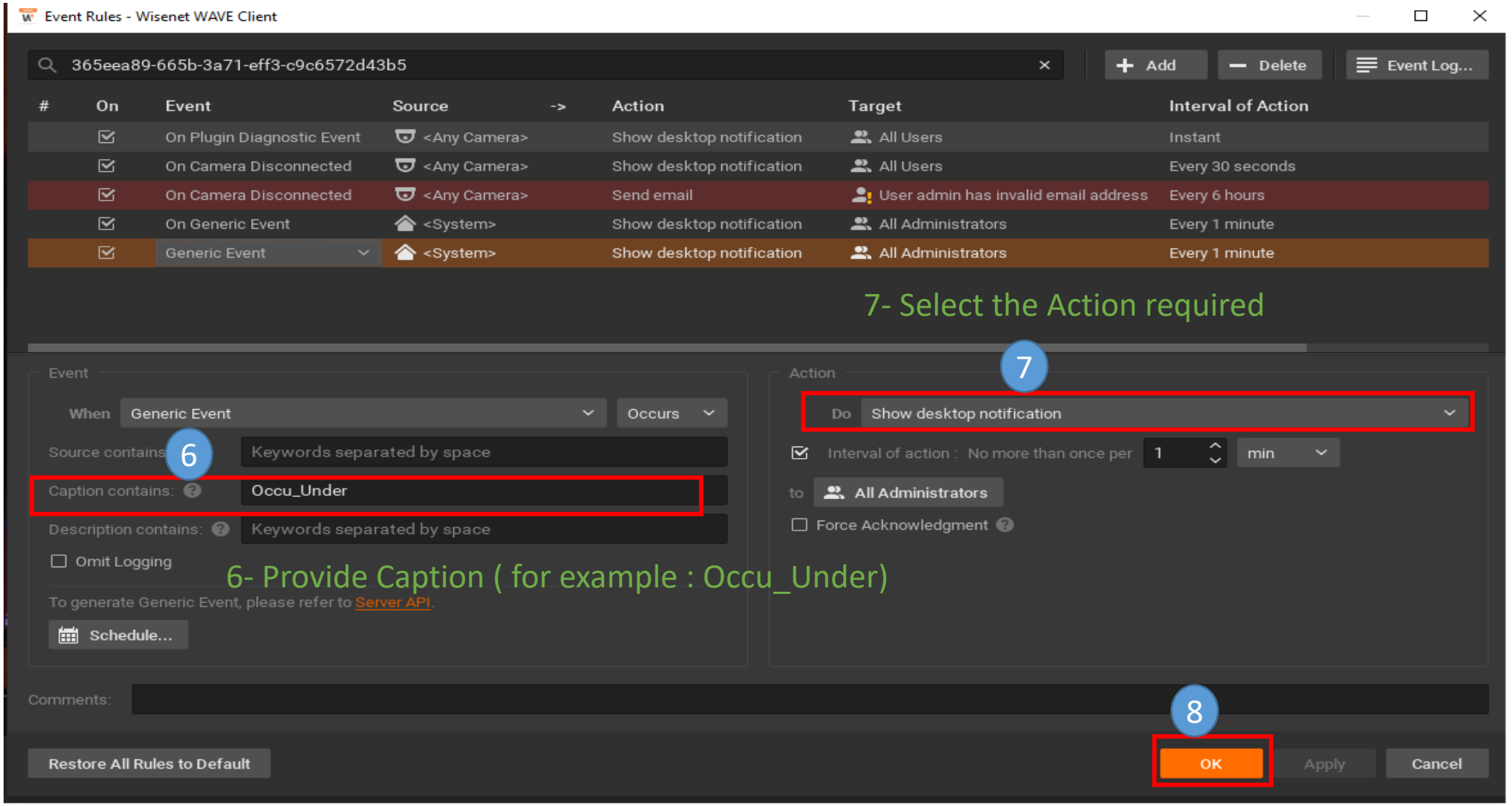
Setting up application– WAVE Integration – Under (Count goes back below Occupancy limit)



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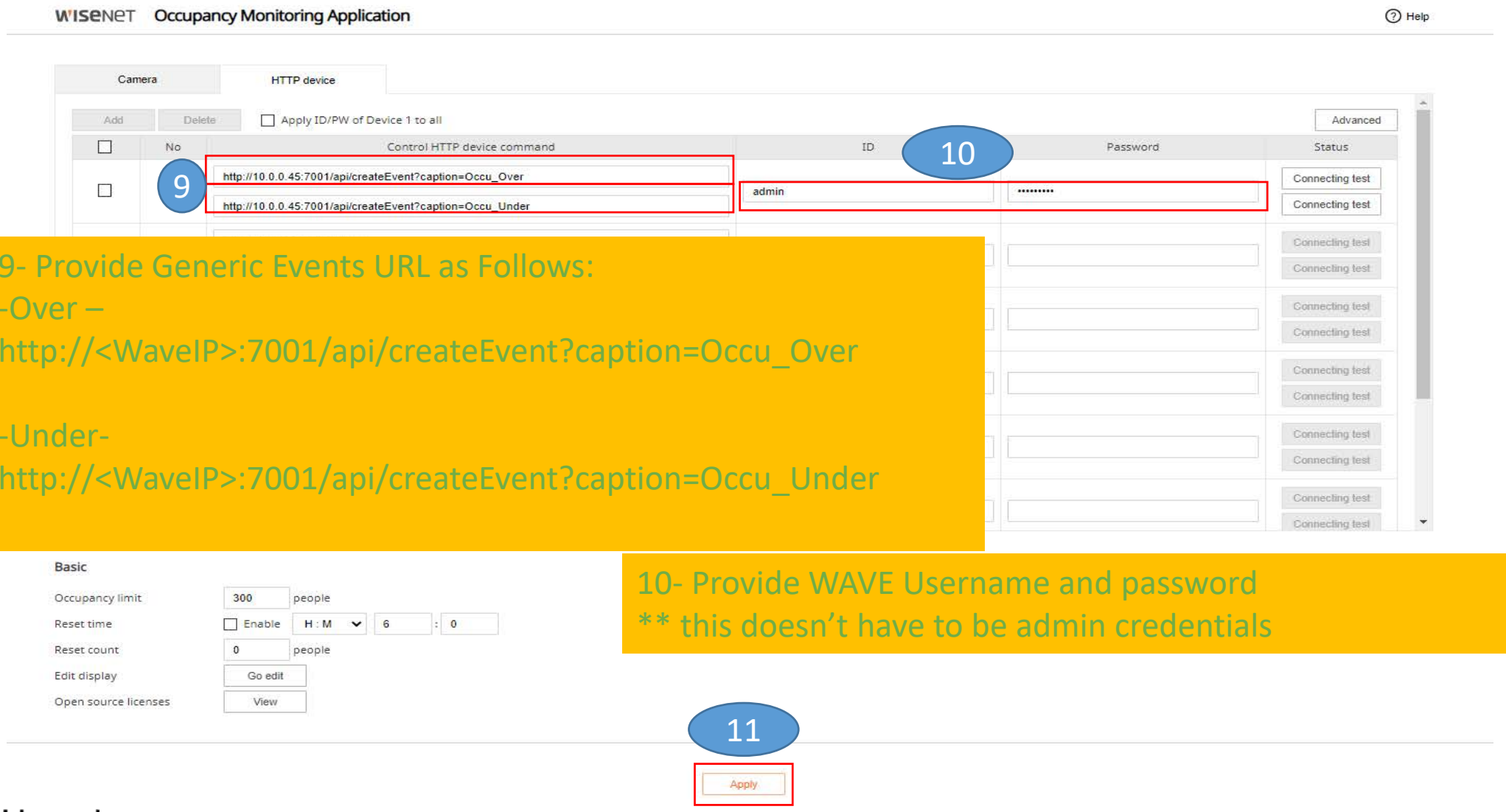
Setting up application– WAVE Integration – HTTP Device Config



9- Provide Generic Events URL as Follows:

-Over –

http://<WaveIP>:7001/api/createEvent?caption=Occu_Over

-Under-

http://<WaveIP>:7001/api/createEvent?caption=Occu_Under

10- Provide WAVE Username and password

** this doesn't have to be admin credentials

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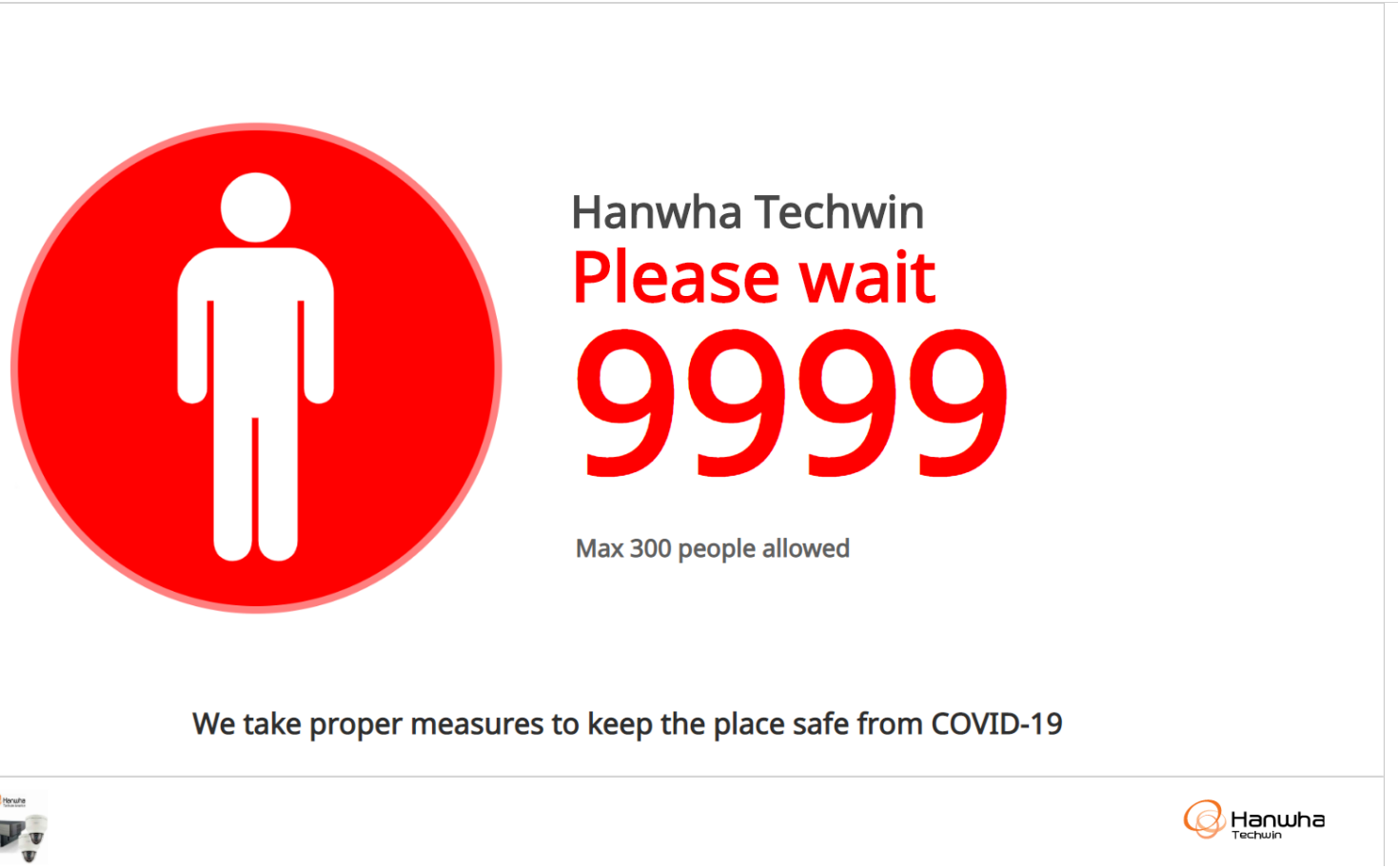
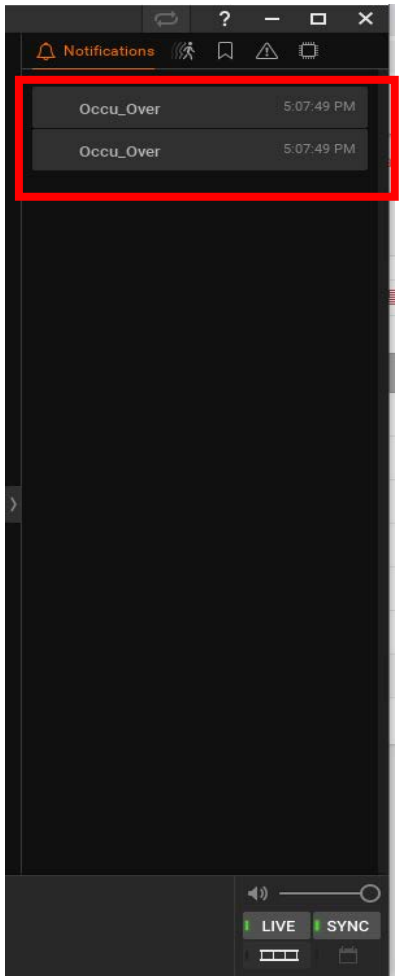
Setting up application– WAVE Integration



WAVE



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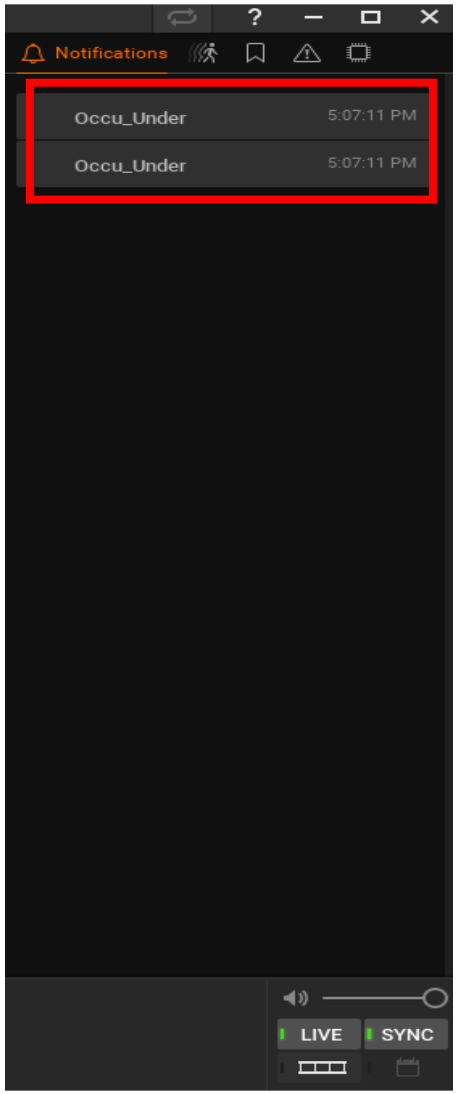
Setting up application– WAVE Integration

WAVE



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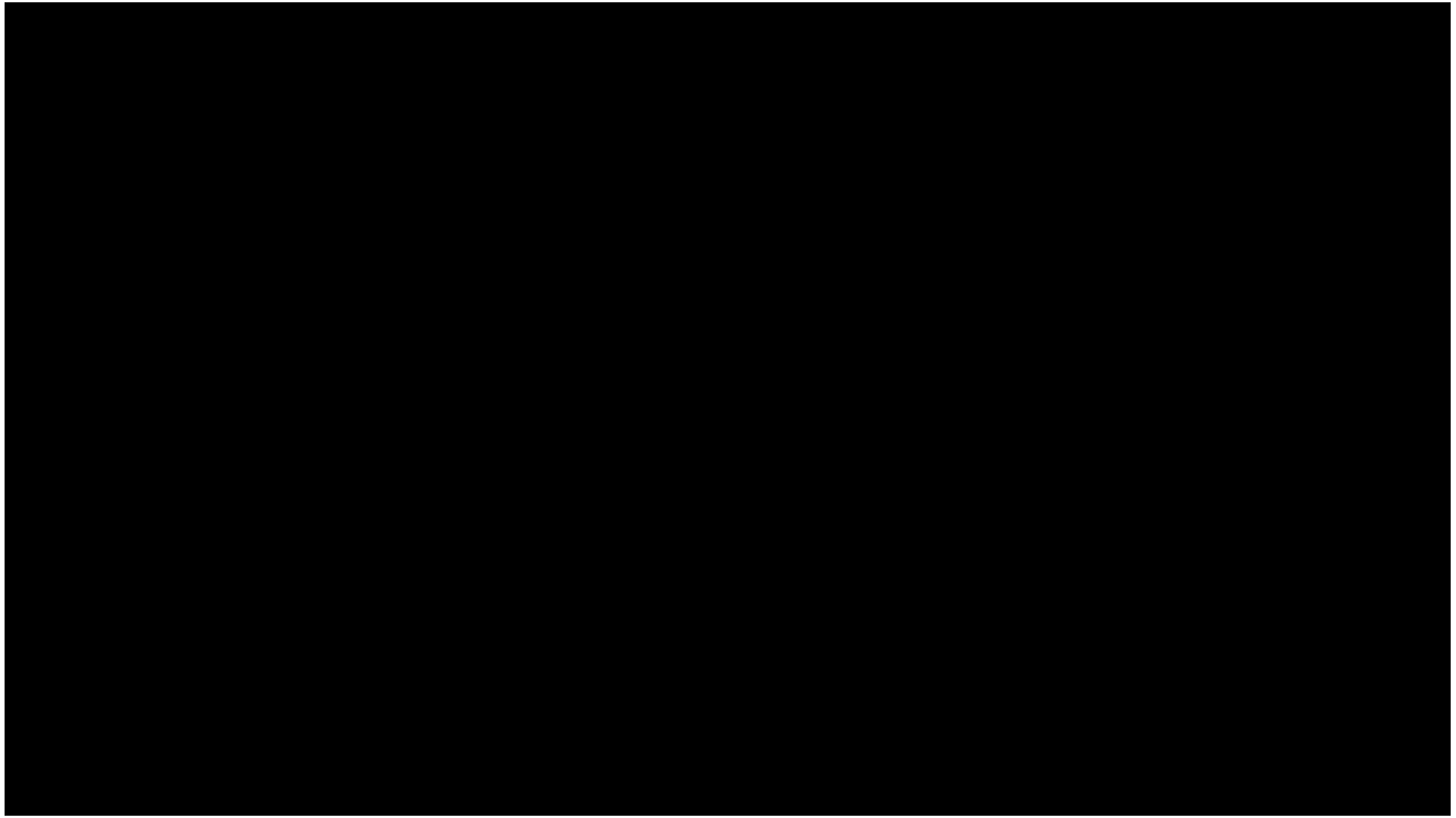
Viewing Occupancy Monitoring on a Decoder, NVR, or WAVE via RTSP



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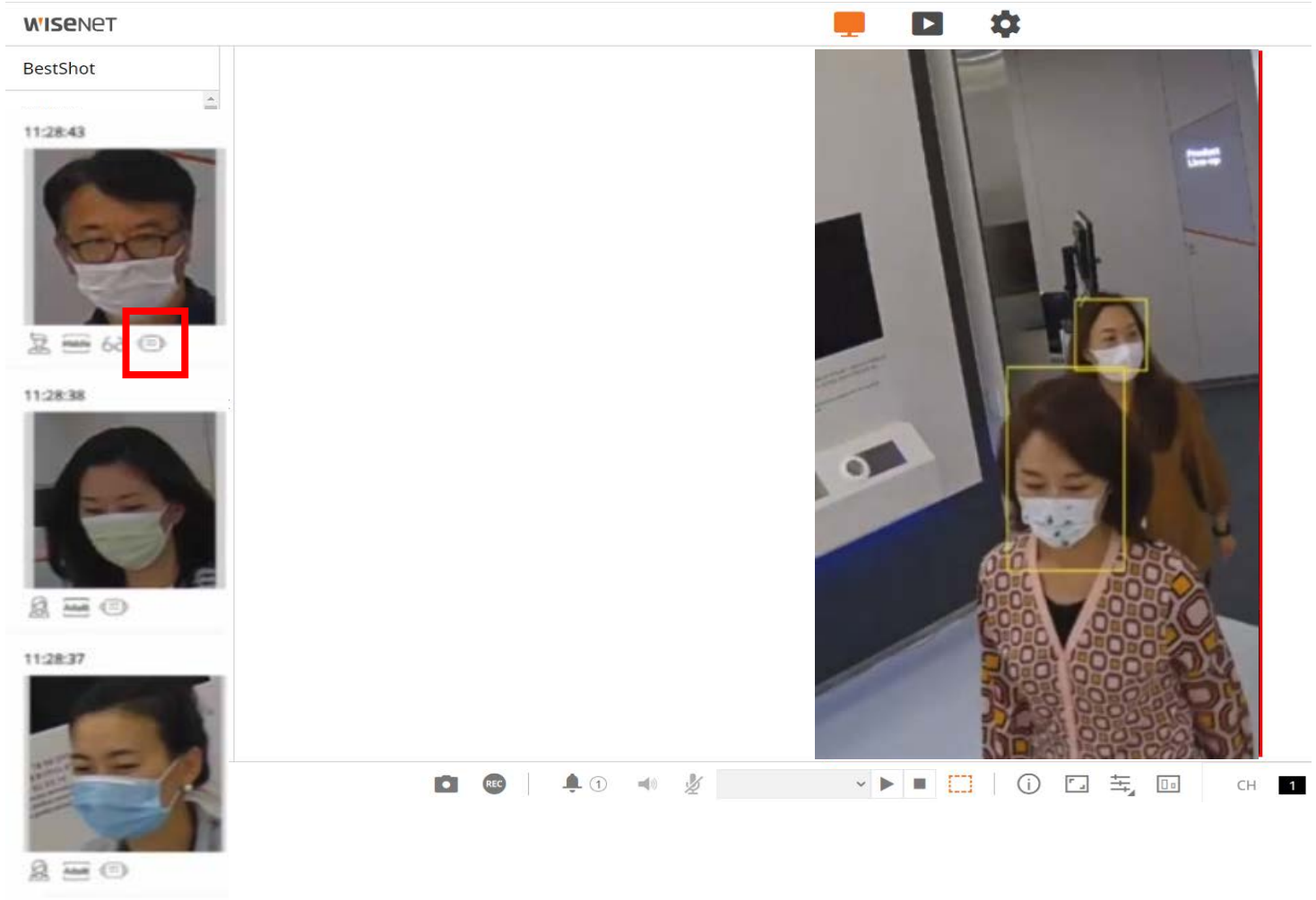

Face Mask Detection

Wisenet P AI Cameras

- Edge-based analytic
- Detect people wearing or not wearing a face mask
- Full WAVE integration

Hanwha Techwin America

1. Solution Overview

- Wisenet7 SoC

Face Mask Detection is one of the AI-based video analysis functions of the Wisenet AI camera.

This function detects in real time whether people in the video wear a mask.

** Masks: Medical masks (including body masks, masks, etc.)

This function is provided free of charge - at no cost for P series AI Cameras by Firmware update (version 1.41.03)

- Install the camera using a ceiling/wall mount, tripod, etc.
- It can be used for access systems, retail solutions, etc.
- When a mask is worn (not worn), the user is immediately notified.

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2. Demo (Video)

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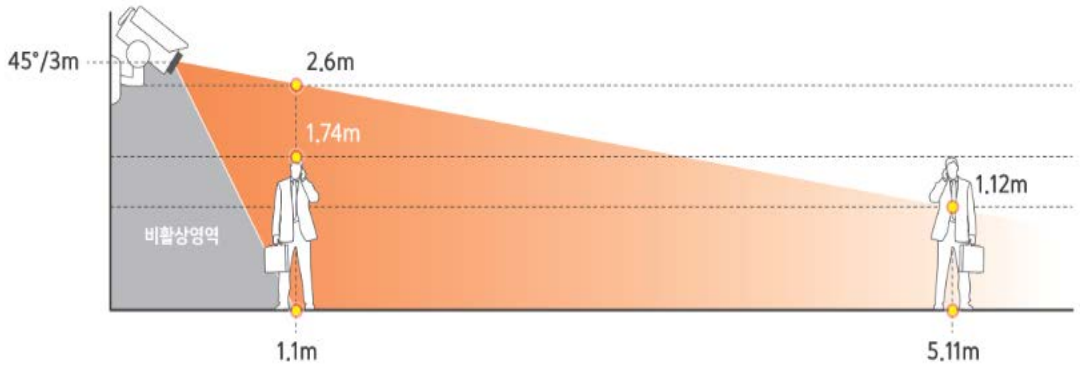
3.0. AI Camera Installation/detection specifications

We recommend that you install the camera in a direction where a person's face can be easily seen head-on.

Depending on how it is installed on the ceiling/wall, the performance may deteriorate if the front of a person is not clearly visible.

Recommended camera installation specifications

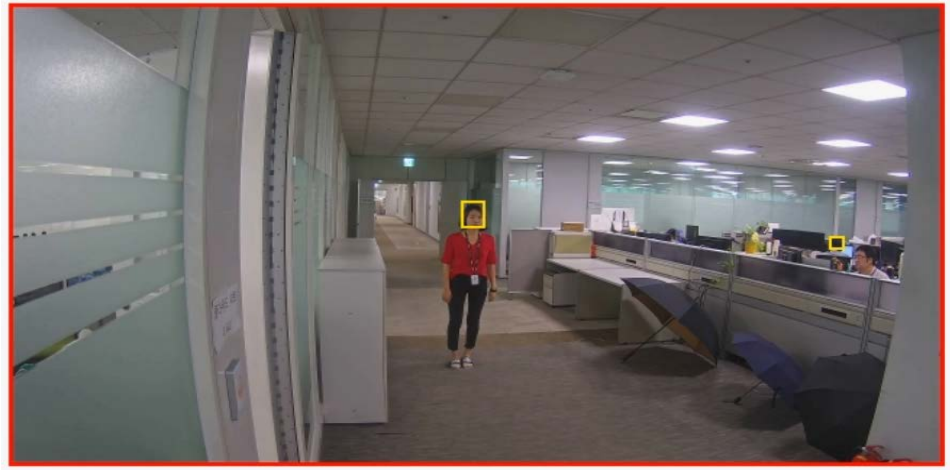
- **Ceiling/wall mount: recommended installation height 6.5~10 feet or higher, camera angle 45 ° or higher**
- **Use of tripod: recommended installation height 5~6.5 feet, camera distance 3 feet or more**



[Figure 1] Example of ceiling/wall mount installation

Face detection specifications

- **Maximum distance 16~20 feet (Not including box camera)**
- **Minimum size 120 pixels x 120 pixels**
- **Up to 12 effective faces can be monitored simultaneously**
- **Face detection must occur continuously in the FoV for at least 2 seconds**



[Picture 1] Example of maximum detection distance (6 meters)

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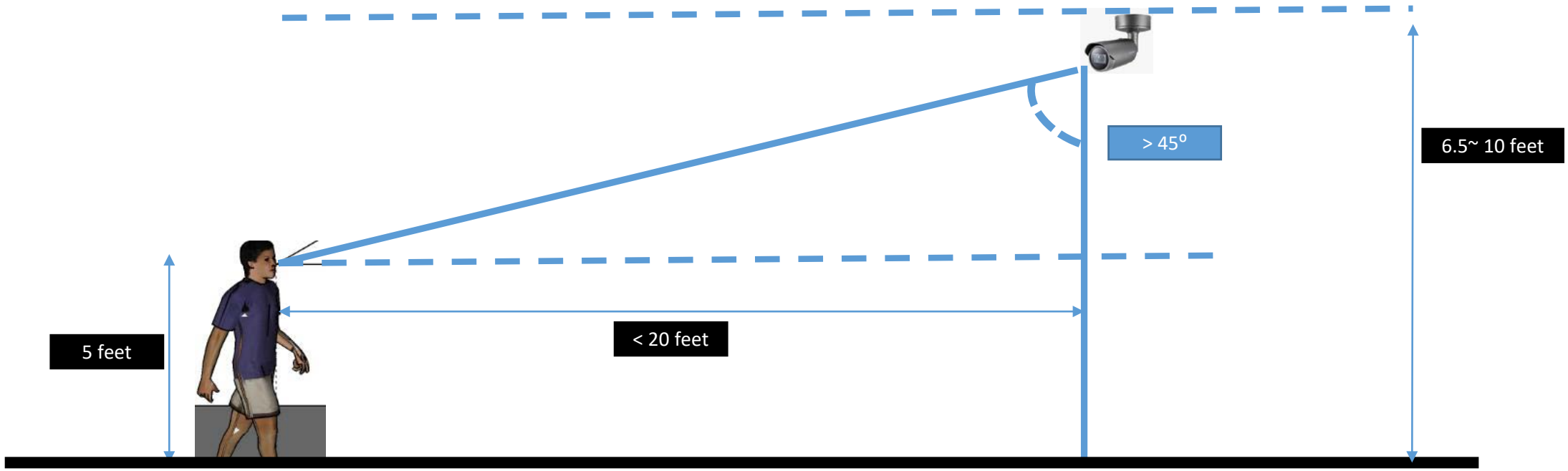
3.1. Camera Install – Vertical Mounting



Ceiling/wall mount: recommended installation height 6.5~10 feet or higher, camera angle 45 ° or higher

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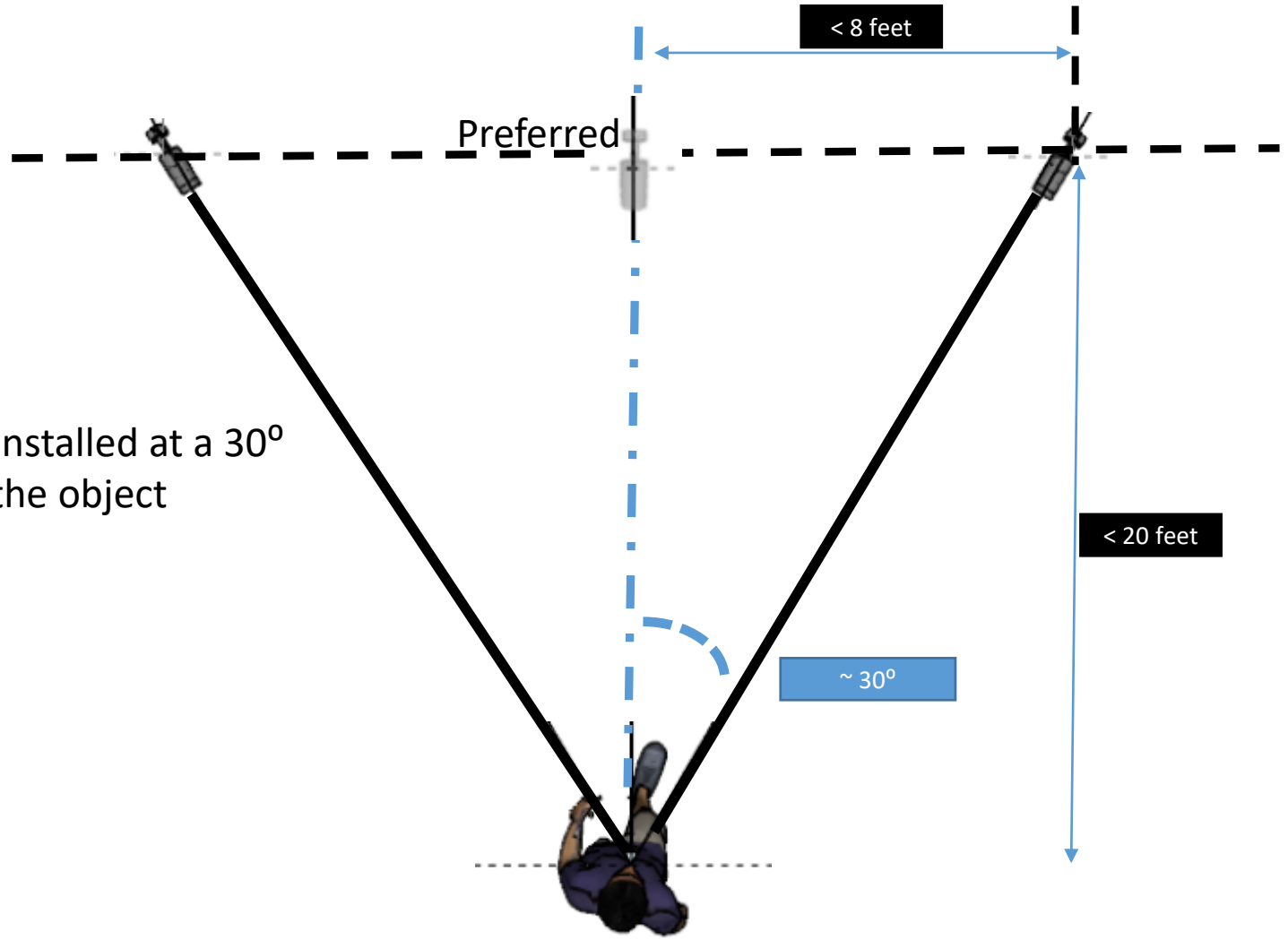
3.2. Camera Install – Horizontal Mounting

The camera can be installed at a 30º horizontal angle to the object



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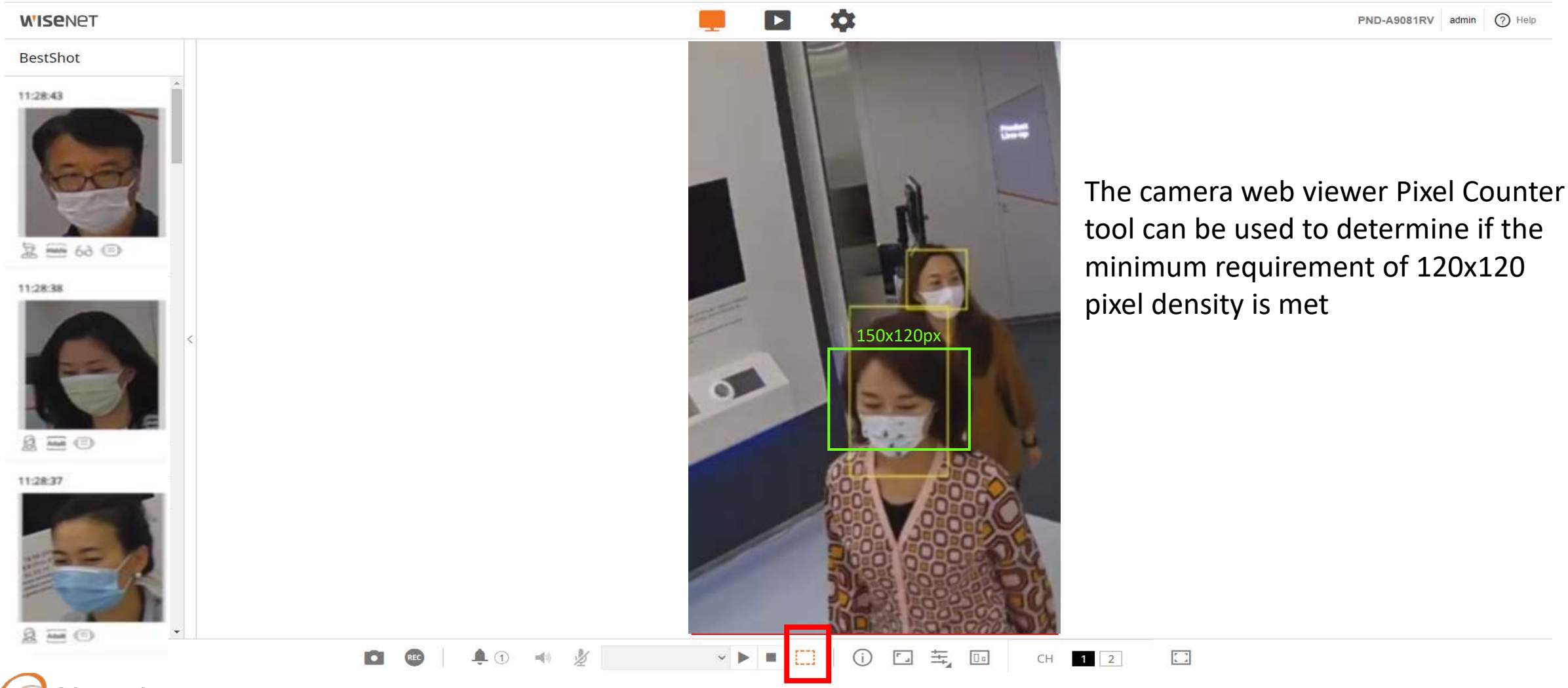
3.3. Camera Install – Use Pixel Counter to confirm Minimum Pixel Density requirements



The camera web viewer Pixel Counter tool can be used to determine if the minimum requirement of 120x120 pixel density is met

Pixel Counter

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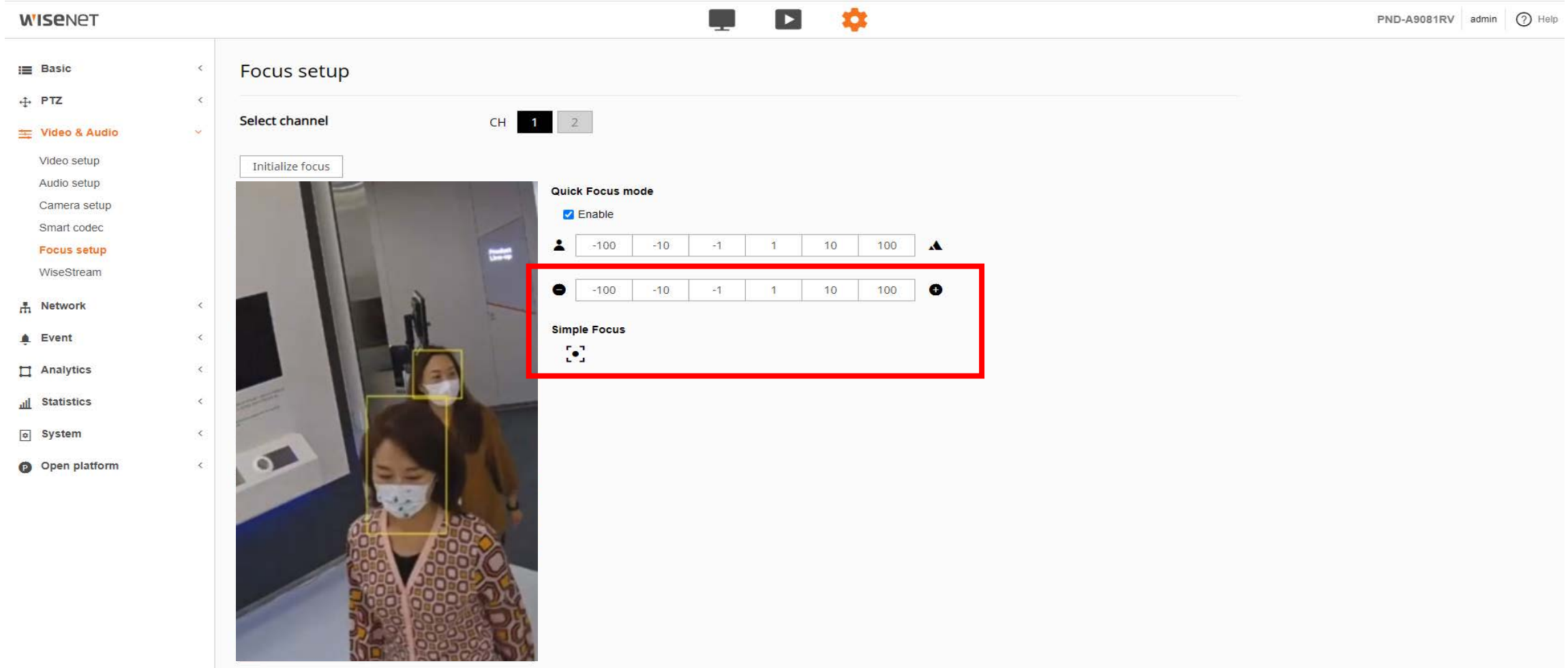
3.4. Camera Install – Use Zoom in/out and Simple focus to fine tune the FoV



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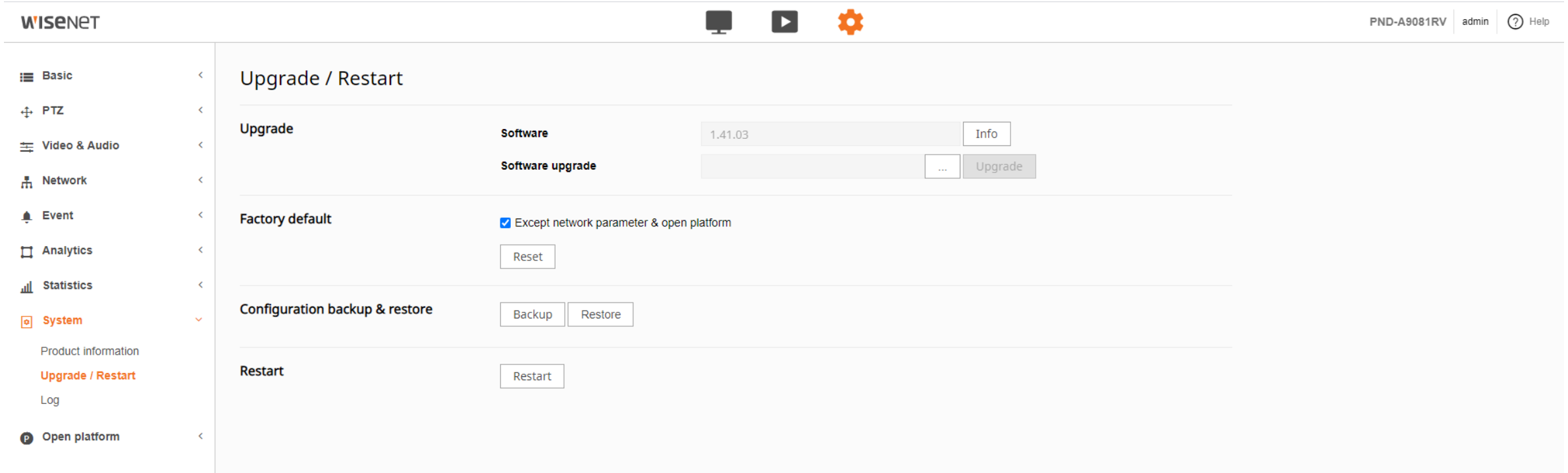
4.1. Camera Firmware (1.41.03)



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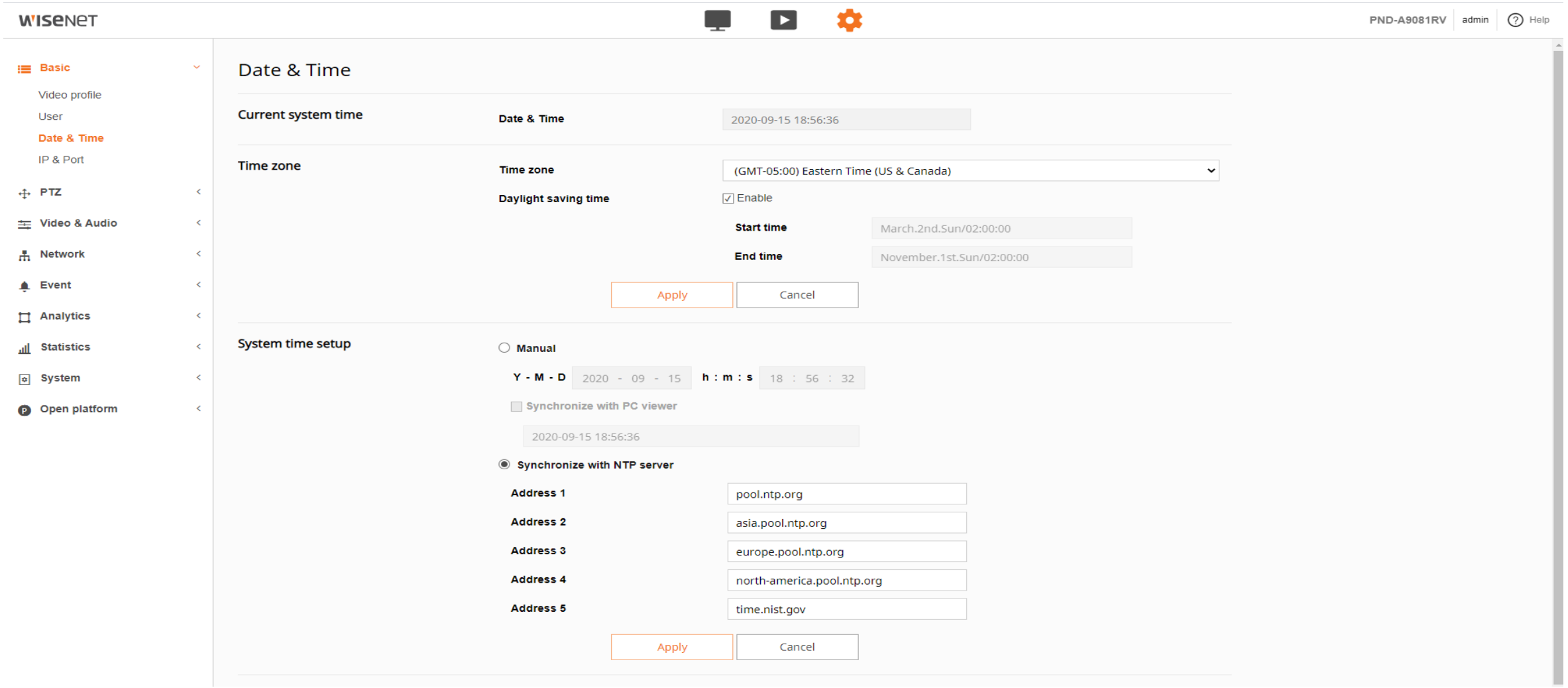
4.2. Camera Setup – Date and Time setup / Very Important

Check that the clock is correct. It is recommended to use NTP to keep the clock synced. Also check the Time Zone & DST.



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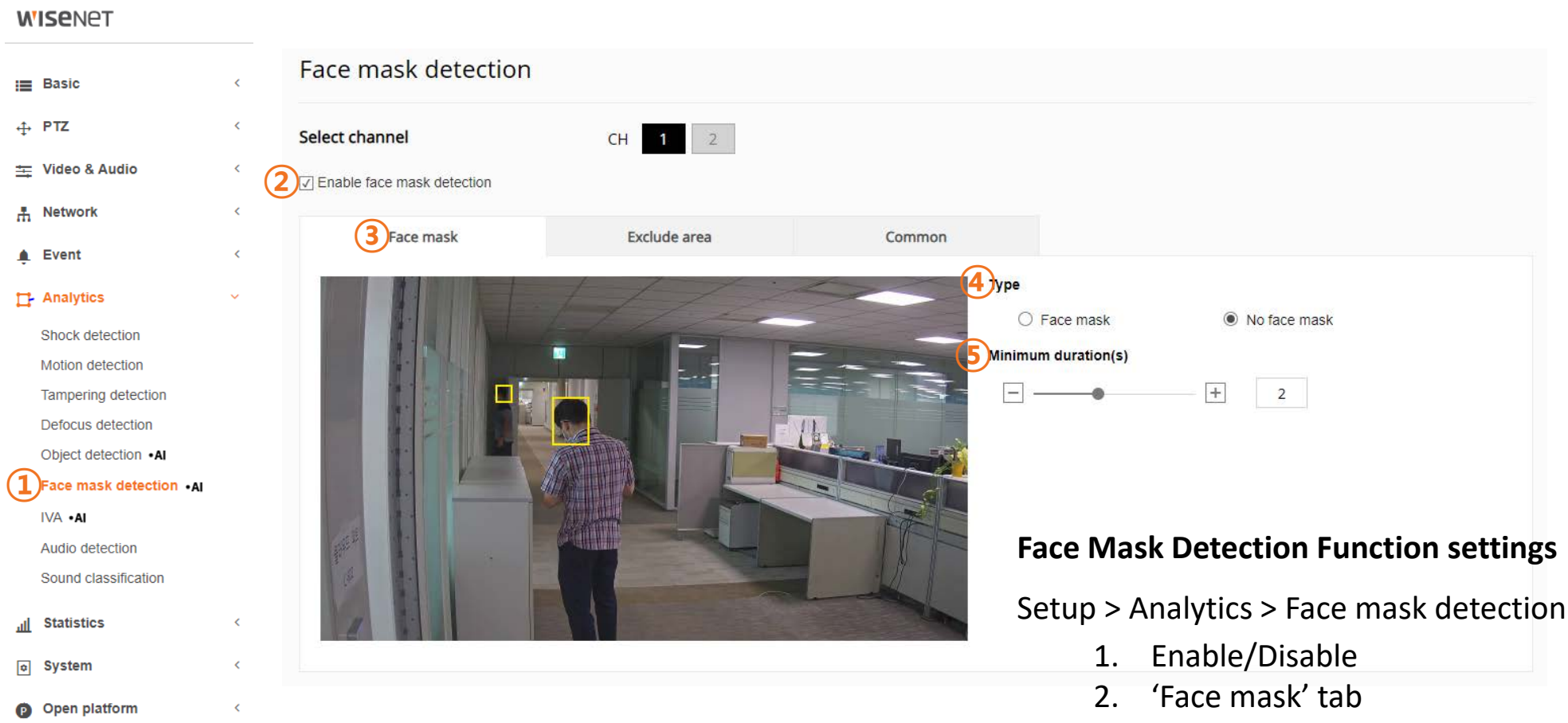
4.3. Face Mask Detection Setup



Face Mask Detection Function settings

Setup > Analytics > Face mask detection

1. Enable/Disable
2. ‘Face mask’ tab
3. Type: face mask/no face mask (default)
4. Minimum duration (2 second default)

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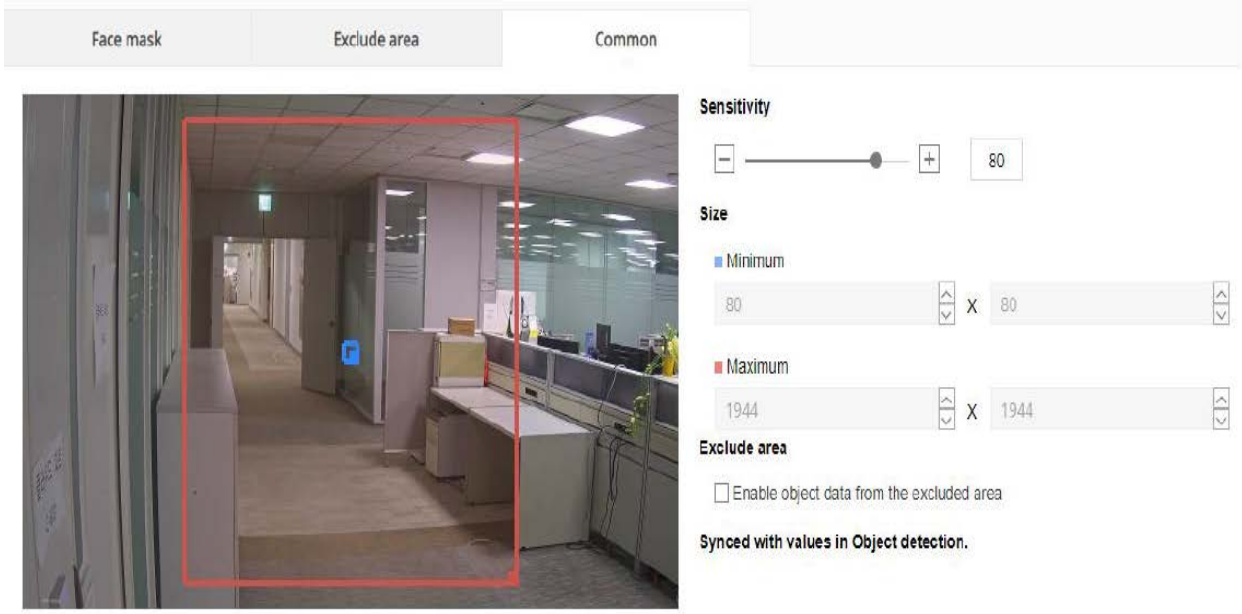
4.3. Face Mask Detection Setup

Configuring sensitivity or minimum size the accuracy of Face Mask Detection and Event alarm can be enhanced.

- **Setting lower level of sensitivity will generate correct but smaller number of alarms. It can also cause missed detection.**
- **Setting smaller minimum size can detect faces from farther distances. It can also reduce the performance of Face Mask Detection.**



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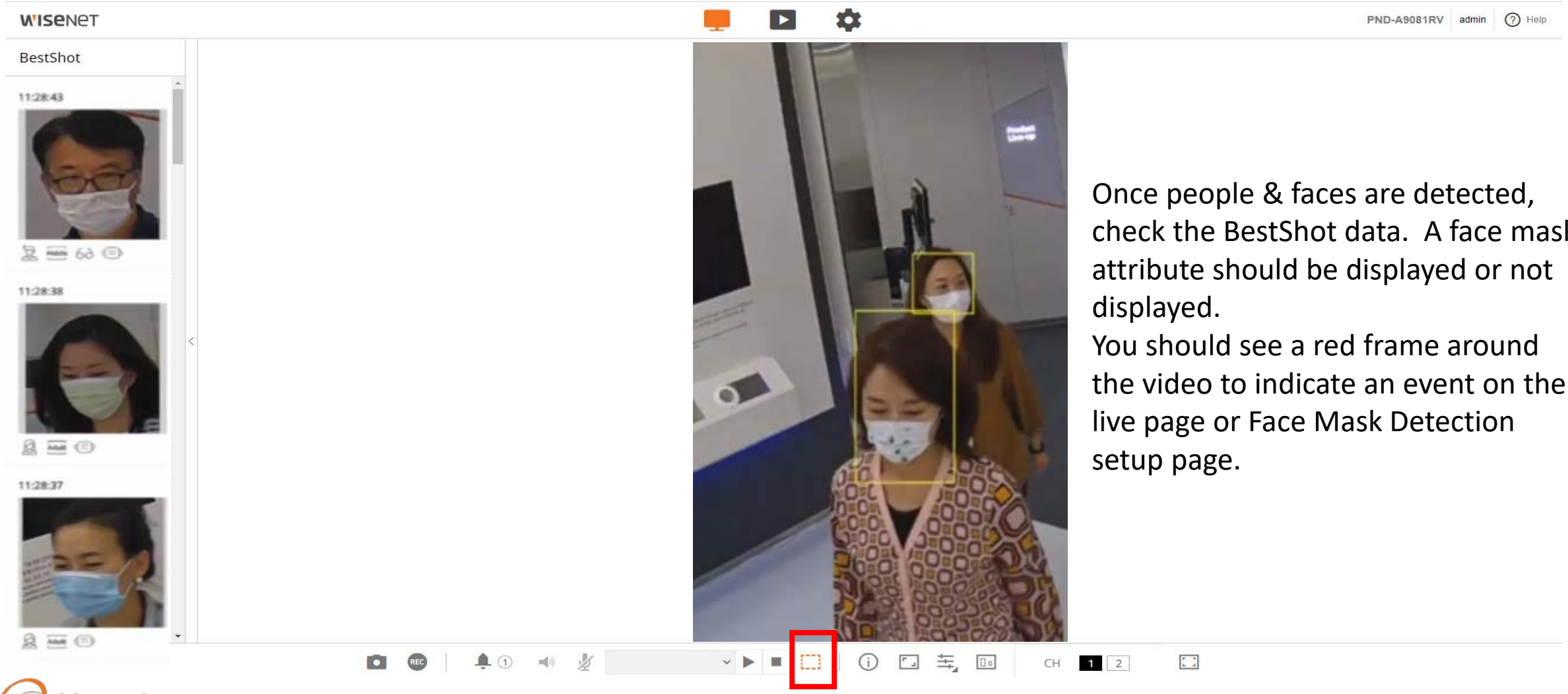
4.4. Checking Operations



Once people & faces are detected, check the BestShot data. A face mask attribute should be displayed or not displayed.
You should see a red frame around the video to indicate an event on the live page or Face Mask Detection setup page.

Pixel Counter

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4.5. Camera Setup Demo

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Fask Mask Detection Analytic Setup
Wisenet P Series AI Cameras

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6.1.0. Upgrade WAVE Build Version

WAVE must be upgraded to version 4.1.0.31767 (Sept. 10th, 2020) to support Face Mask detection events.

This build also improves AI attribute metadata.

Note: If an AI camera is upgraded to v.1.40.03, this WAVE build MUST be used, otherwise AI attributes will no longer be displayed.

In-Client Upgrade:
Build Number: 31767
Password: l2eyxl

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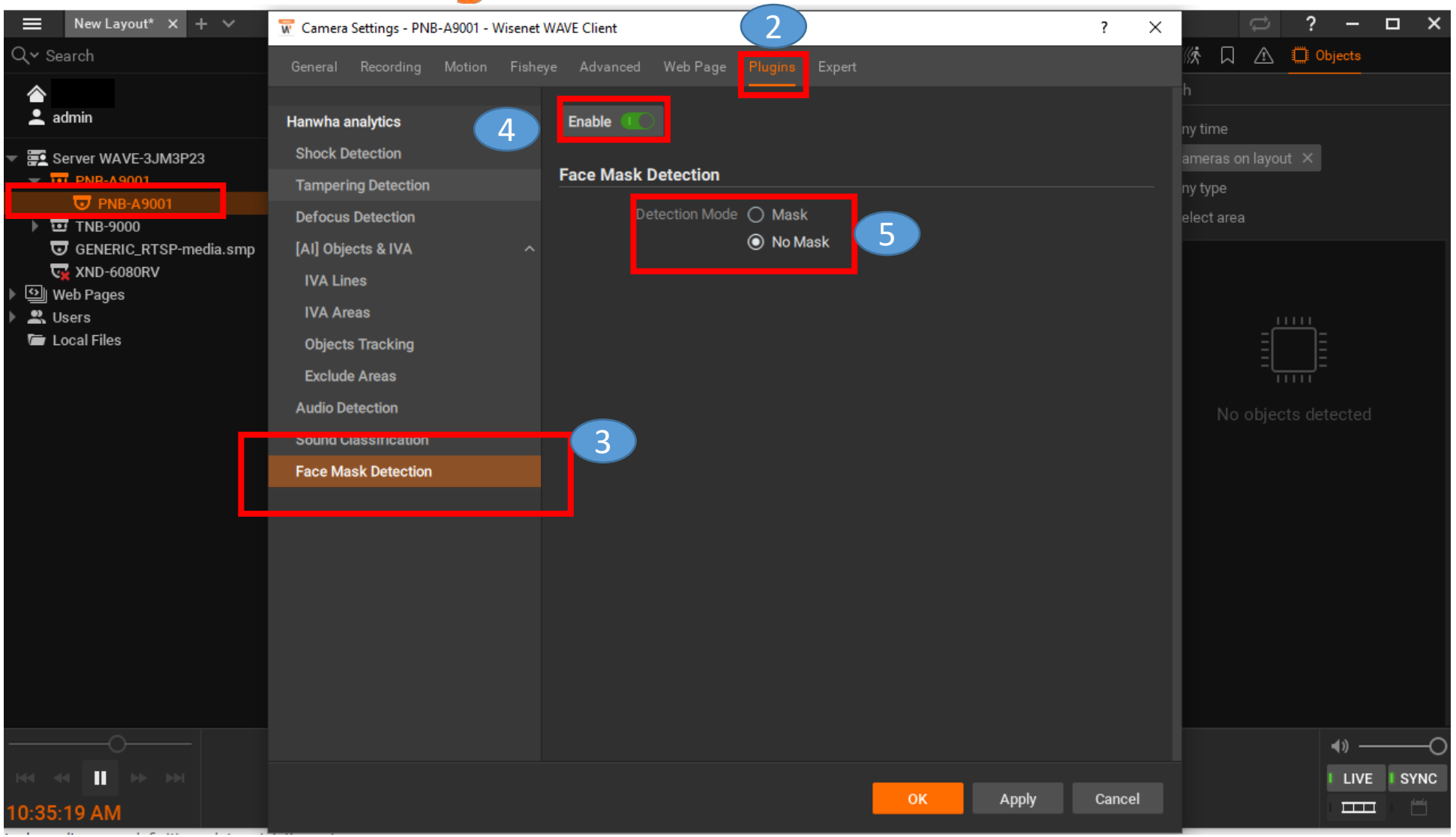
6.1.1. WAVE Integration – Enable Face Mask Detection



You can enable Face Mask Detection with the WAVE Plugin instead of navigating to the camera's webpage.

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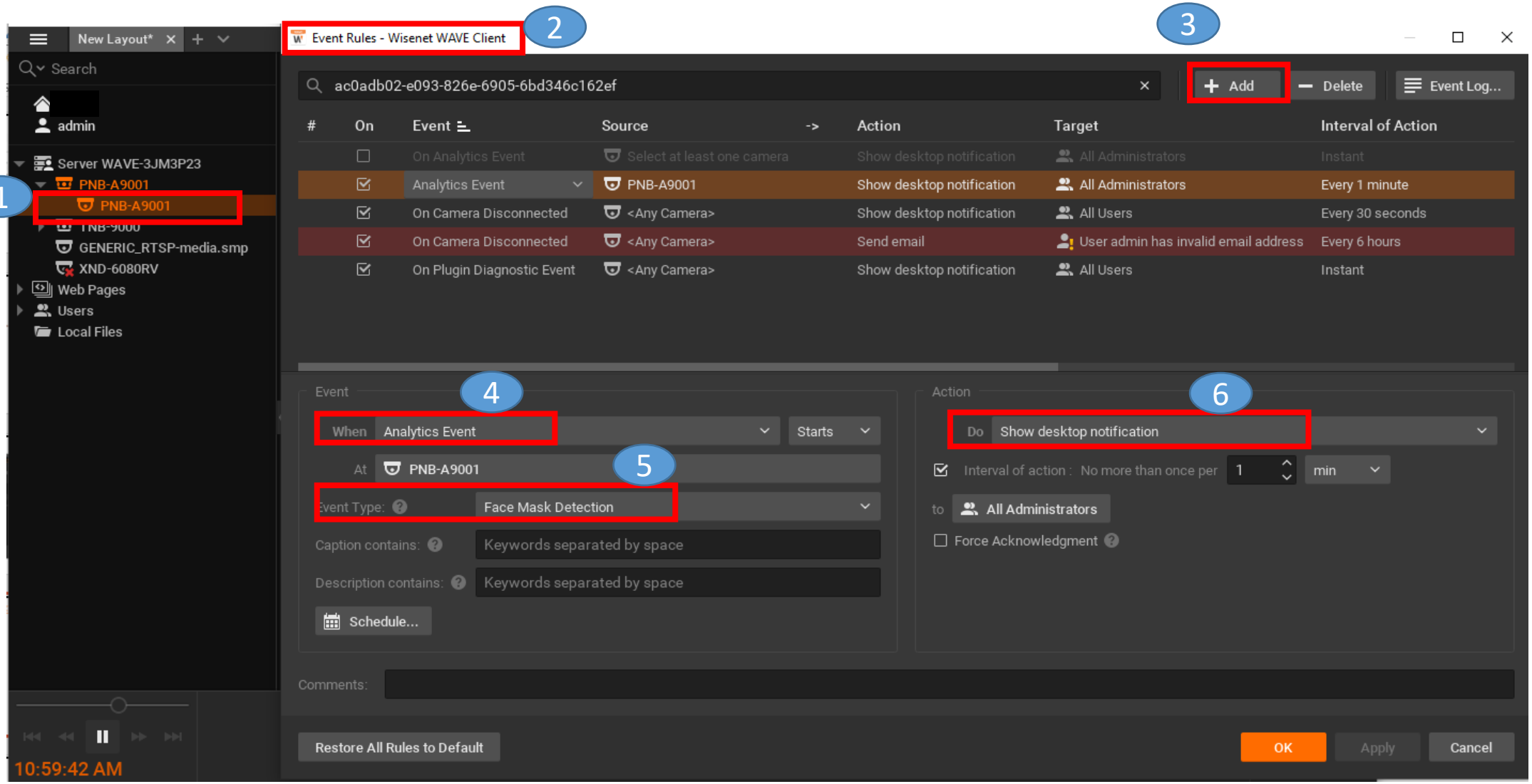
6.1.2. WAVE Integration – Event Rule



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6.1.3. WAVE Integration – Demo

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Fask Mask Detection Events in Wisenet WAVE
with Wisenet P Series AI Cameras

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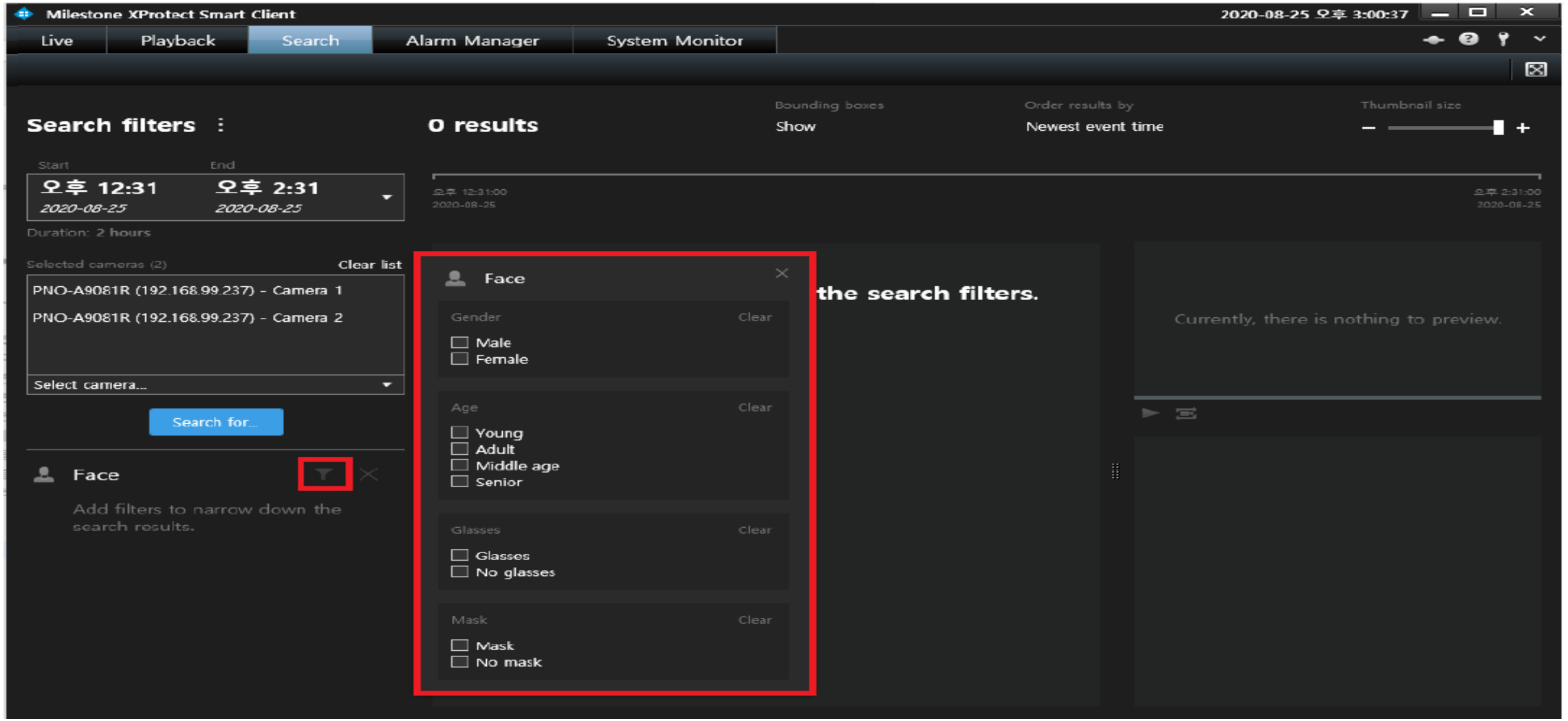
6.2.1. Milestone Integration – Forensic Search



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6.2.2. Milestone Integration – Forensic Search

AI- Plugin Version 1.02

The system requirements for AI Camera Plug-in are as follows:

- Client PC Operating System
  - Microsoft Windows 10 (64-bit) or higher
- Recommended PC Specifications
  - CPU: Intel Core i7-7700 @ 3.40 GHz
  - RAM: 16 GB
  - HDD: 60 GB or more, SDD recommended
- Milestone System Version
  - Milestone 2019 R3 or higher
- Milestone System License Level
  - Expert, Corporate

NOTE: Milestone 2019 R3 or higher and the Expert, Corporate level license are required.

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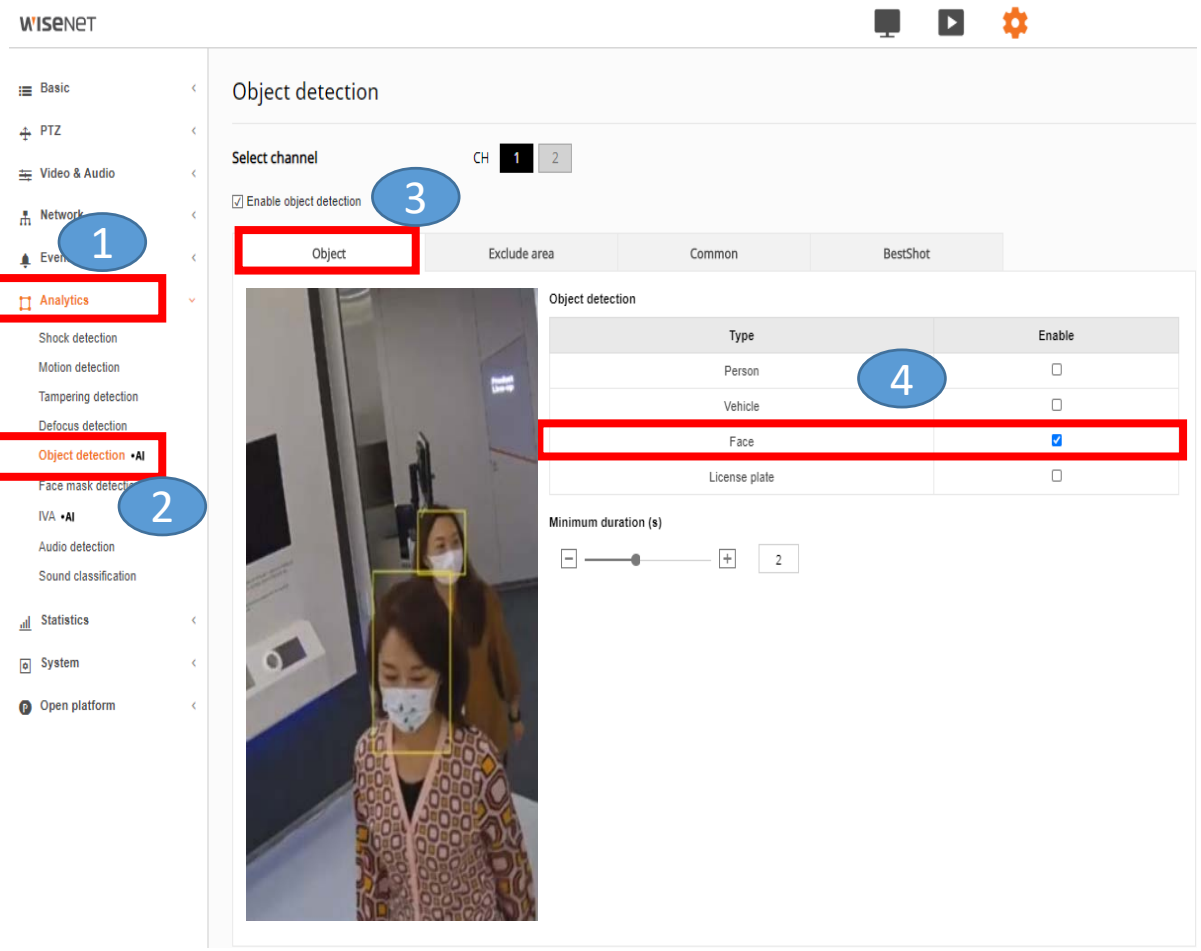
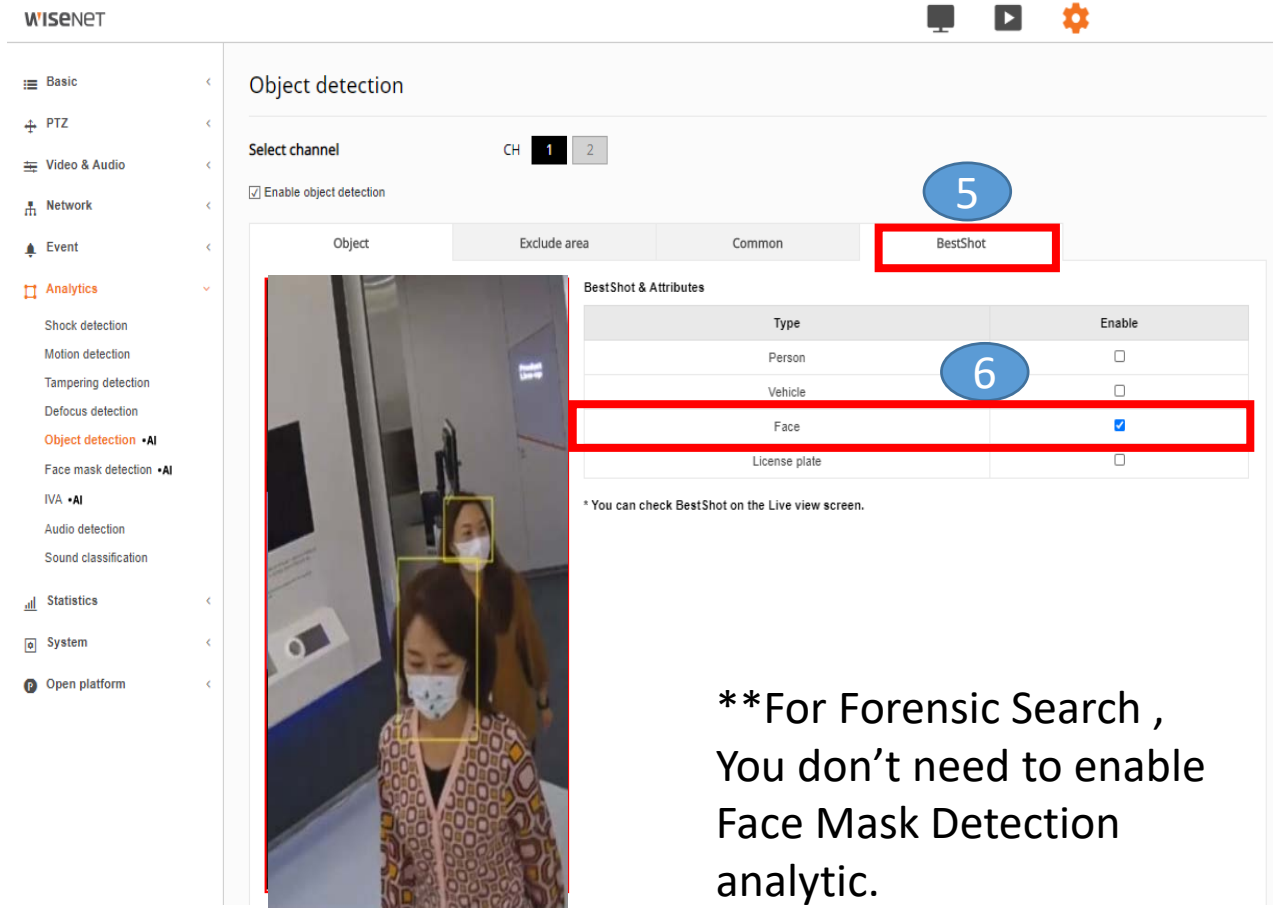
6.2.3. Milestone VMS Integration – Forensic Search

Camera Settings





**For Forensic Search ,
You don't need to enable Face Mask Detection analytic.
You need ONLY to enable Object detection and BestShot for FACE

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VMS Integration

Genetec & Milestone have plugins for forensic search including Face Mask attributes. Please visit our webpage for more information.

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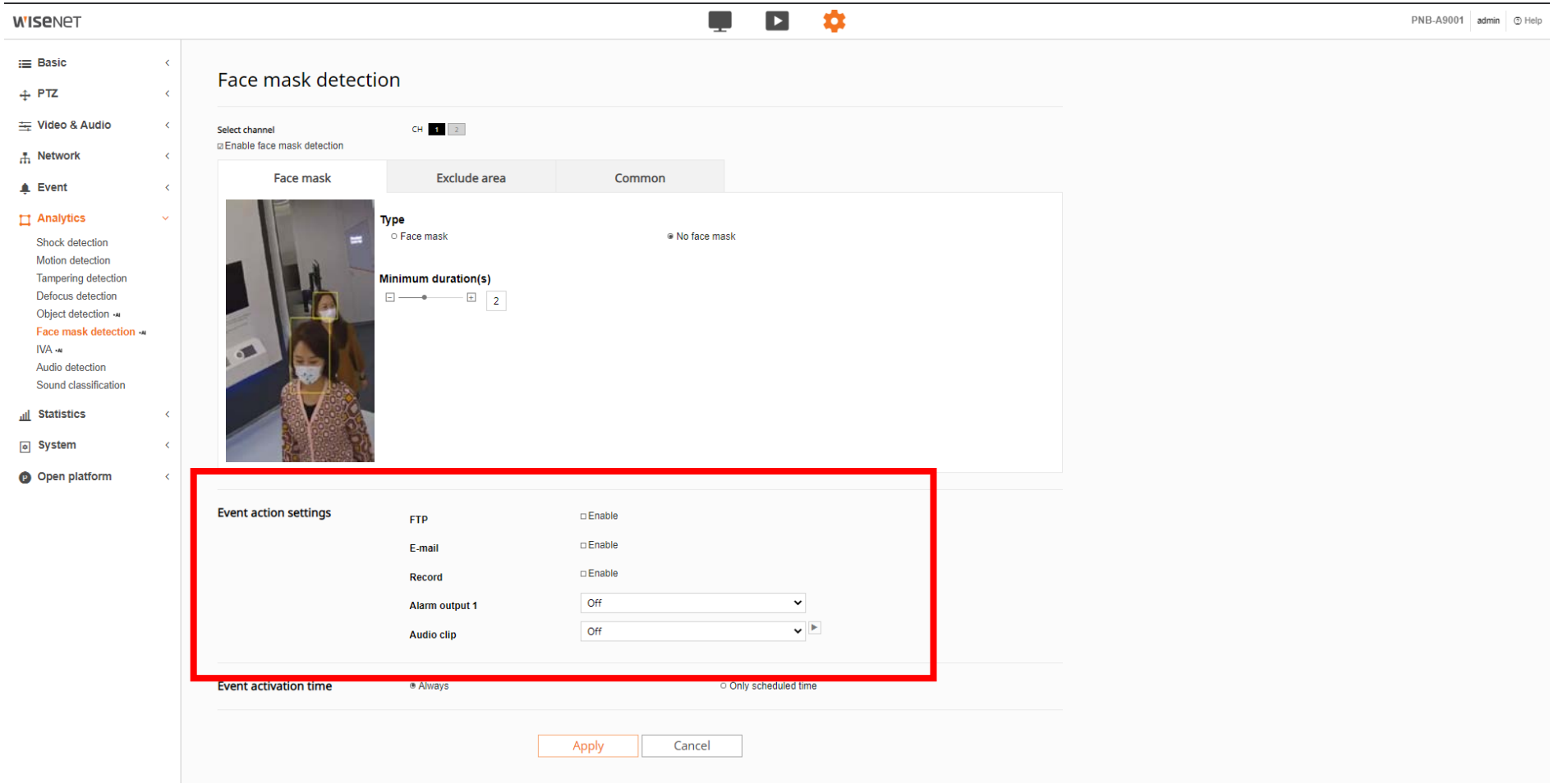
6.4.1 Face Mask Detection - Camera Event Notifications

For VMS that have not been updated yet to support Face Mask Detection Analytic Events, use the Alarm Output > Alarm Input trick.



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a2 Face Mask Detection:

Non-Masked Person detection for X series cameras

Artificial Intelligence-based Video Analytics solution used to instantly detect and intervene for people who do not wear masks in open or closed areas where people come together

Key Features:

- Detection up to 16.4 feet (5 meters)
- Detect up to up to 4 people at the same time
- Detect non-masked people or incorrectly used Mask face masks
- Not Affected By Hat, Glasses or Head Scarf

System Features:

- Plug and Play System | No server required
- Instant Alert via app Interface
- Web-Based Admin Interface
- WAVE Integration
- Designed to run 24/7 with High Availability
- High accuracy analytics thanks to Artificial Intelligence and Deep Learning algorithms
- Audio Notifications

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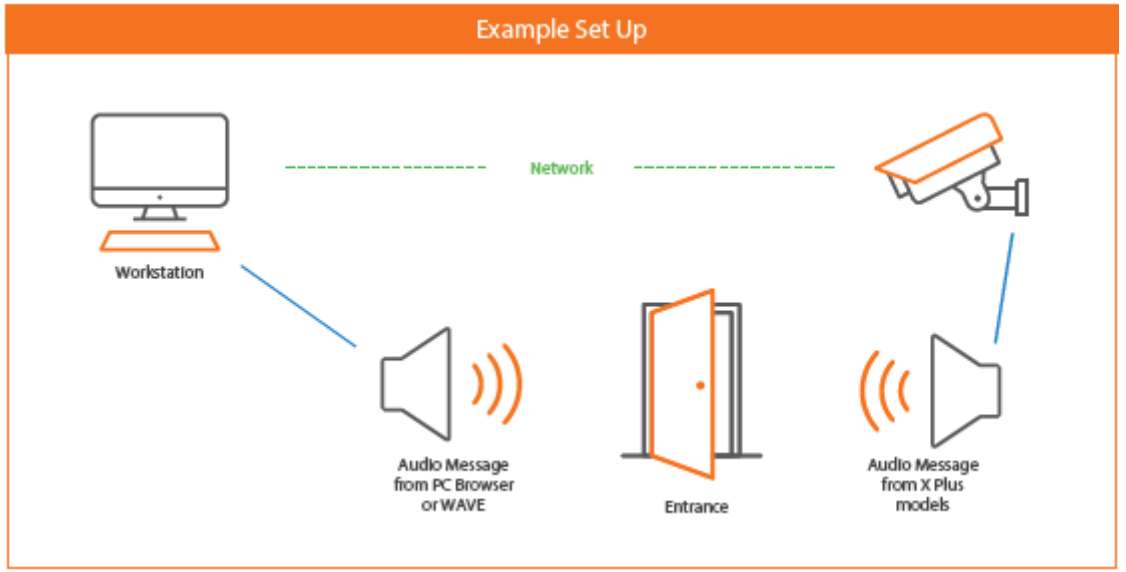
a2 Face Mask Detection:

Solution Overview



Face Mask Detection cameras are located @ doorways.
- Tripod / Wall or Ceiling mount
- Runs internally on Hanwha camera.
- Analyzes the live stream of the camera.
- Detects the people who do not wear mask.
- Captures pictures and video for evidence.
- Generates alarm including metadata, pictures and videos.

Application web interface
- Displays instant alarms and plays alarm message

App Admin Interface / Hanwha Wisenet WAVEVMS
- Displays instant alarms and plays alarm message
- Displays live stream and recent alarms
- Reports all alarm events
- Easy analytic configuration via web interface.

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Face Mask Detection Integration with Wisenet WAVE

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a2 Face Mask Detection:

Supported Cameras

Note : Varifocal cameras with Simple Focus are recommended for ease of adjustment and camera placement.

Compatible with the following Wisenet X series Camera Models

Indoor Dome Camera : XND-6010, XND-6011F, XND-6020R, XND-6080, XND-6080R, XND-6080RV, XND-6080V, XND-6081RV, XND-6085V, XND-8020F, XND-L6080V, XND-6081RV.

Outdoor Vandal Dome Camera : XNV-6010, XNV-6011, XNV-6020R, XNV-6080, XNV-6080R, XNV-6081R, XNV-6081RE, XNV-6120, XNV-6120R

Bullet Camera : XNO-6010R, XNO-6080R, XNO-6120R, XNO-L6080R

Box Camera : XNB-6000

Other Wisenet X series models may be supported. Please contact support for more details and verify the installation environment to ensure a correct design. The use of other lenses on the XNB-6000 camera or models with long-range lenses may allow installation at longer distances. Varifocal models are recommended. 2.8mm fixed lens cameras have a limited installation distance.

** Firmware should be at v1.40 or above.
Additional models may be added.

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a2 Face Mask Detection:

Installation:

Since the a2 Face Mask Detection System works on the camera, the installation process consists basically of camera mounting and software installation processes

Camera Mounting:

The distances listed below are for cameras with built-in lenses. The use of other lenses on the XNB-6000 camera or models with long-range lenses may allow installation at longer distances.

Distance Camera-Person	Vertical Angle	Camera Height Floor-Camera	Horizontal Angle	Horizontal Distance Camera-Person
6.5ft	±30°	5.9 ~ 7.2ft	±30°	±3.6ft
8.2ft	±30°	5.9 ~ 8.2ft	±30°	±4.26ft
11.5ft	±30°	5.9 ~ 10.8ft	±30°	±5.9ft
16.4ft	±30°	5.9 ~ 13ft	±30°	±8.2ft
Tripod installation 6.5-8.2ft	-	5.9ft	±30°	±3.6 ~ 4.26ft

Instructions:

- The width of the face area should be minimum 120 pixels and a maximum of 160 pixels for a FullHD Image
- The installation angle of the camera should see people's faces at a maximum angle of 30º vertically.
- The installation angle of the camera should see people's faces at a maximum angle of ±30º horizontally.
- Tripod mounting is possible. Minimum camera mounting height should be 5.58 feet (1.70 meter)

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a2 Face Mask Detection:

Installation: Sample FoV

Face Width Dimensions:
Minimum 120 pixels
Maximum 160 pixel

@2 Megapixel cameras

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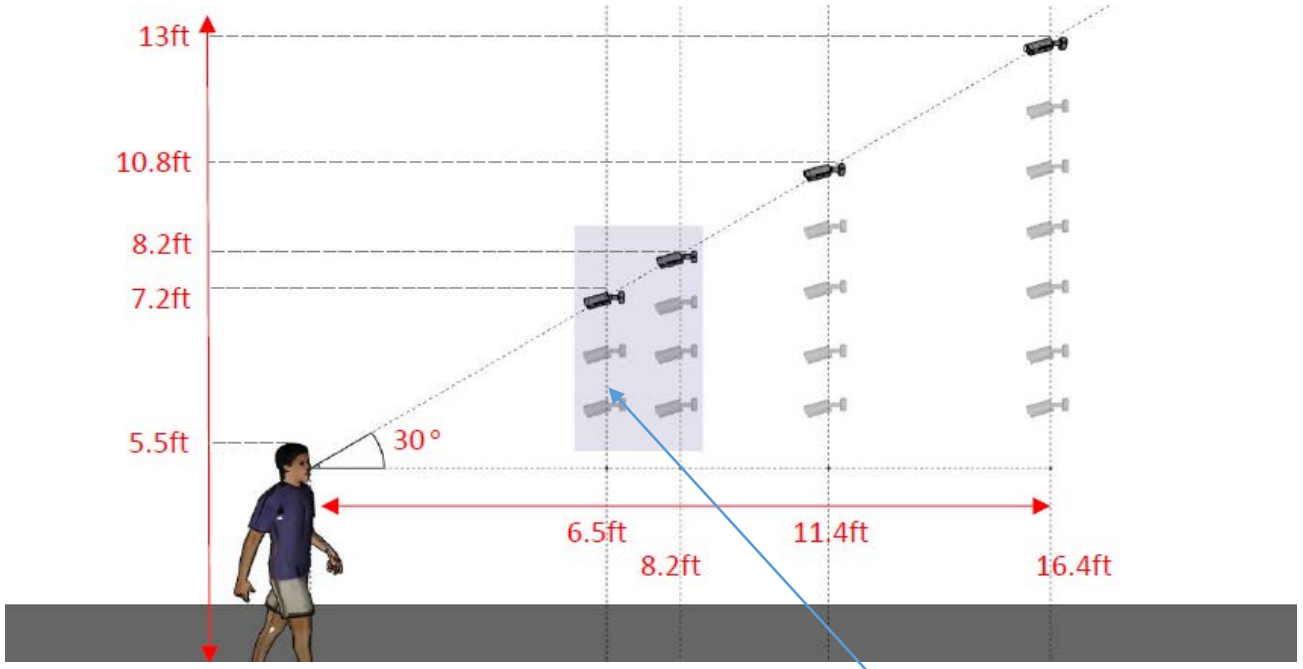
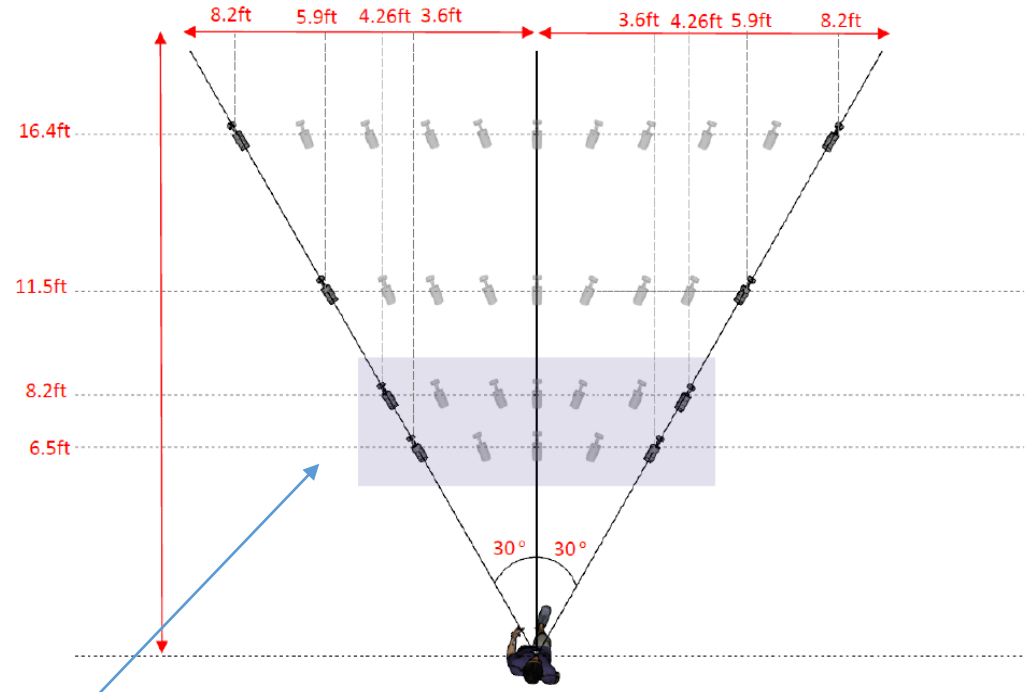
a2 Face Mask Detection:

Installation:



Horizontal Mounting Options:



2.8mm fixed lens cameras can be used only in Highlighted area.
Varifocal motorized lens cameras are recommended for ease of installation and configuration

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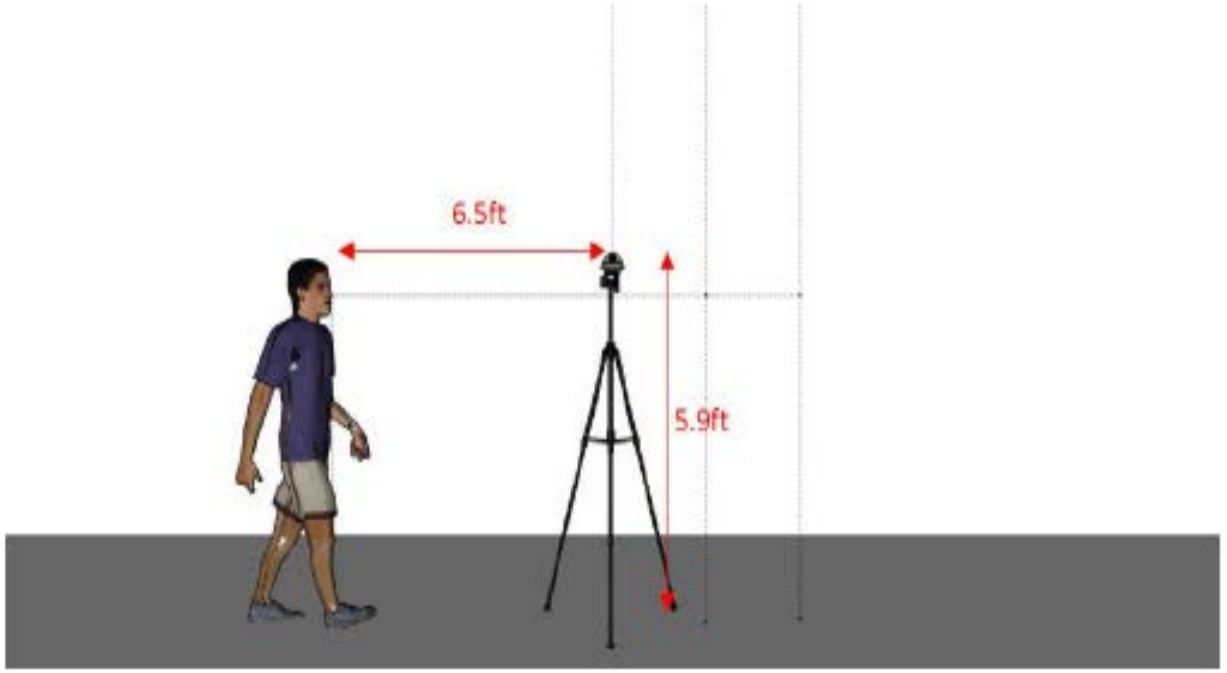
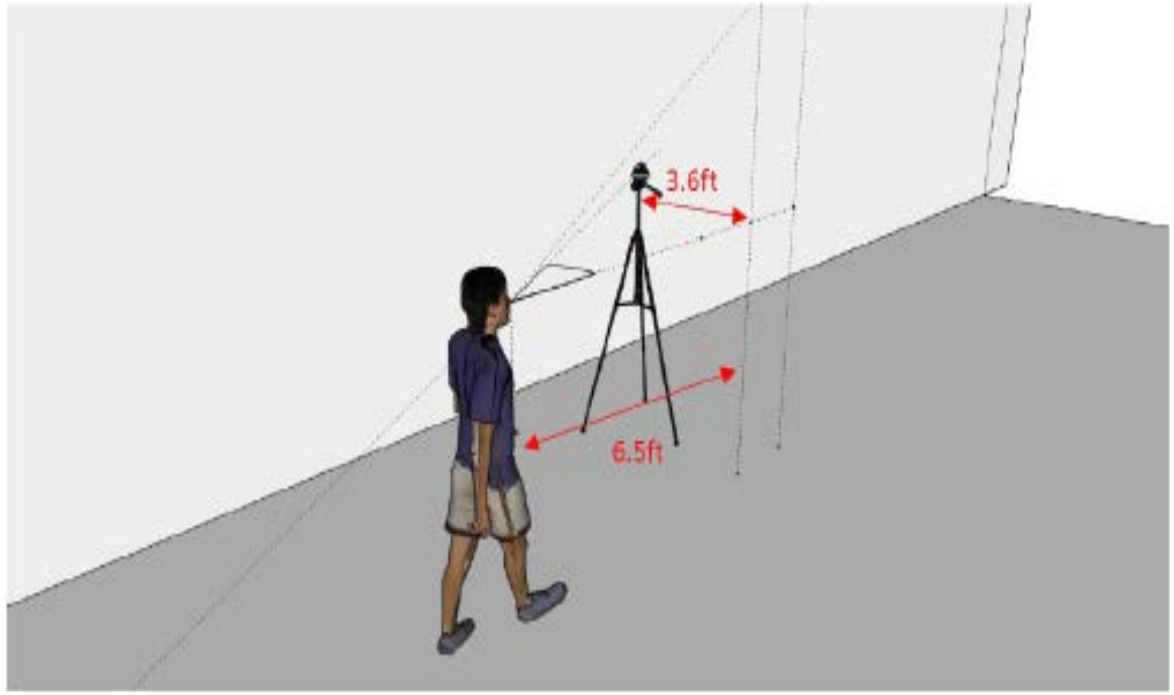
a2 Face Mask Detection:

Tripod Installation:





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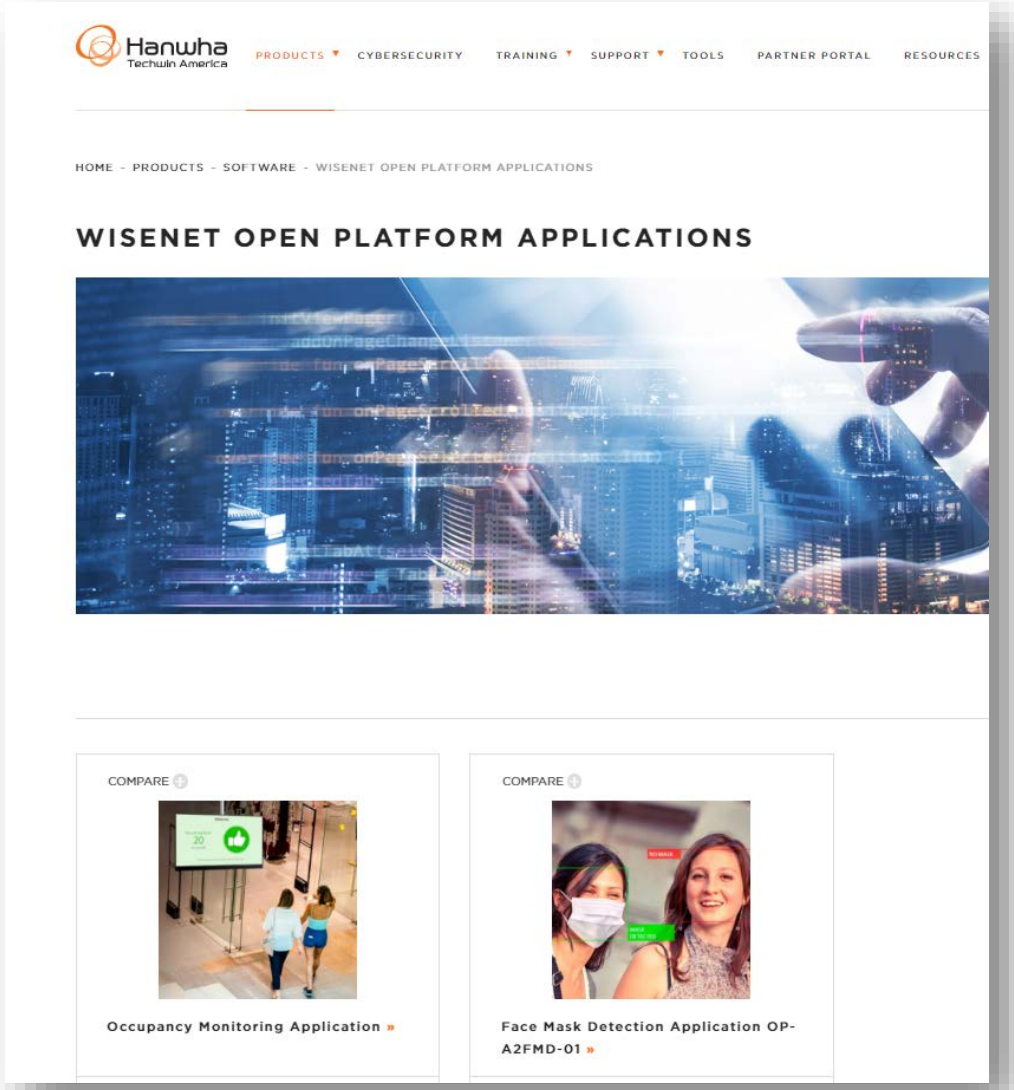
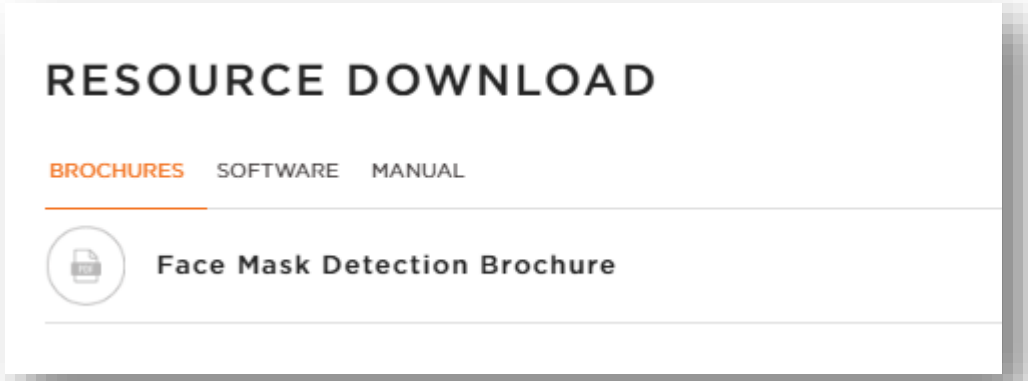
a2 Face Mask Detection:

Where to download app & assets?





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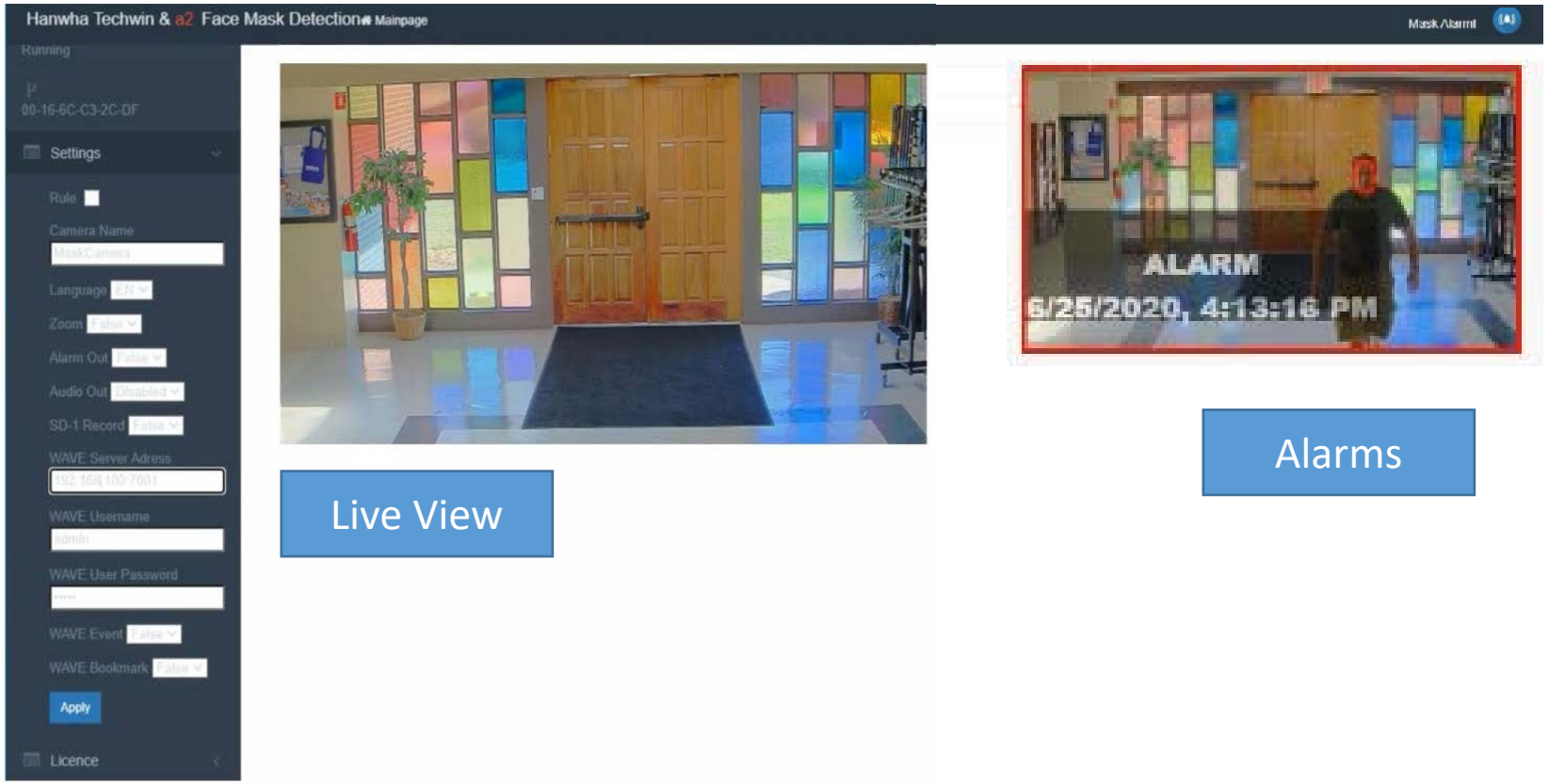
a2 Face Mask Detection:

a2 Interface:

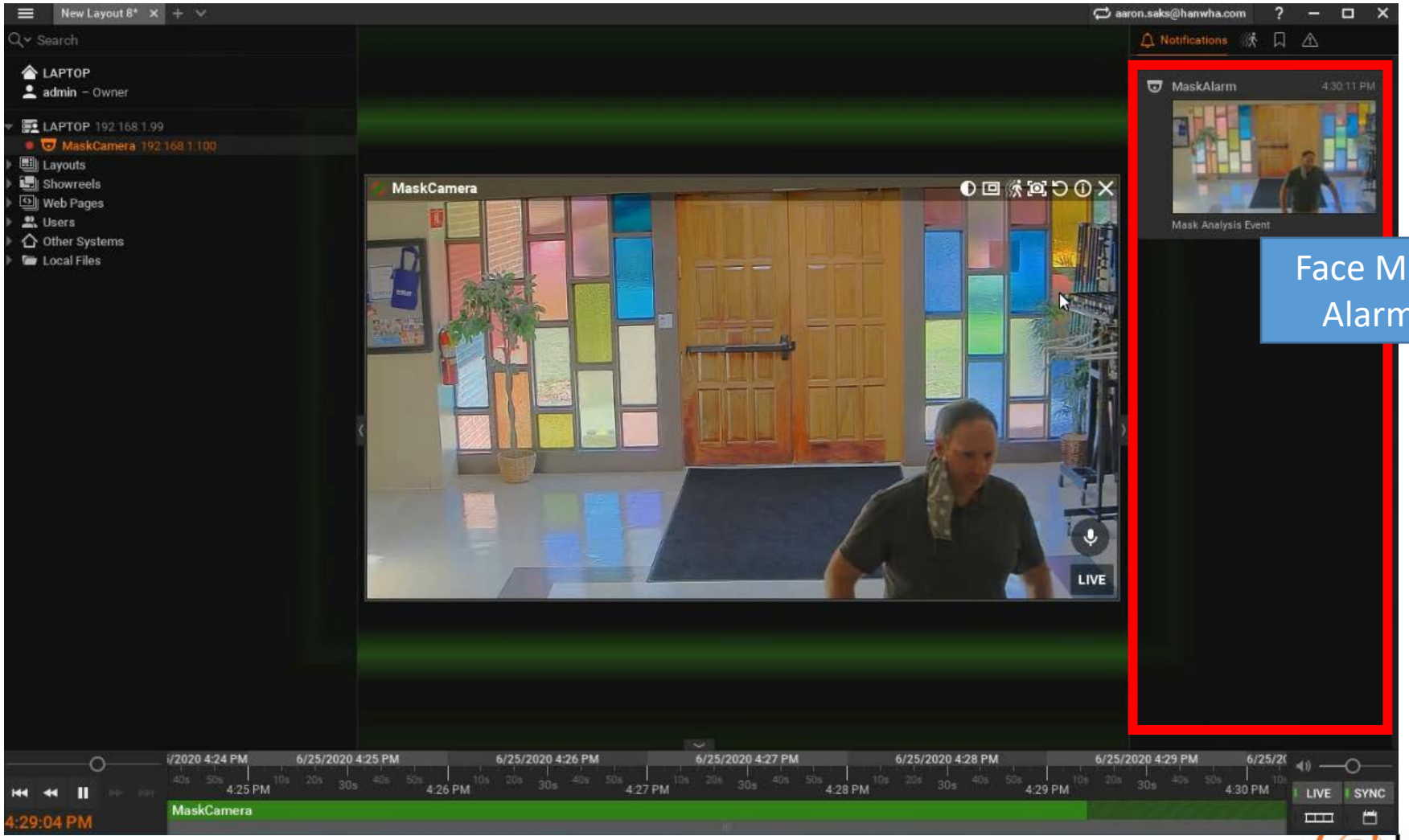
- Live View
- Alarm Display with time/date stamp, red face box, and alarm icon
- Audible alarm message



a2 Face Mask Detection:

Wisenet WAVE Interface:

- Live View
- Alarm Events
- Bookmarks
- Other event actions



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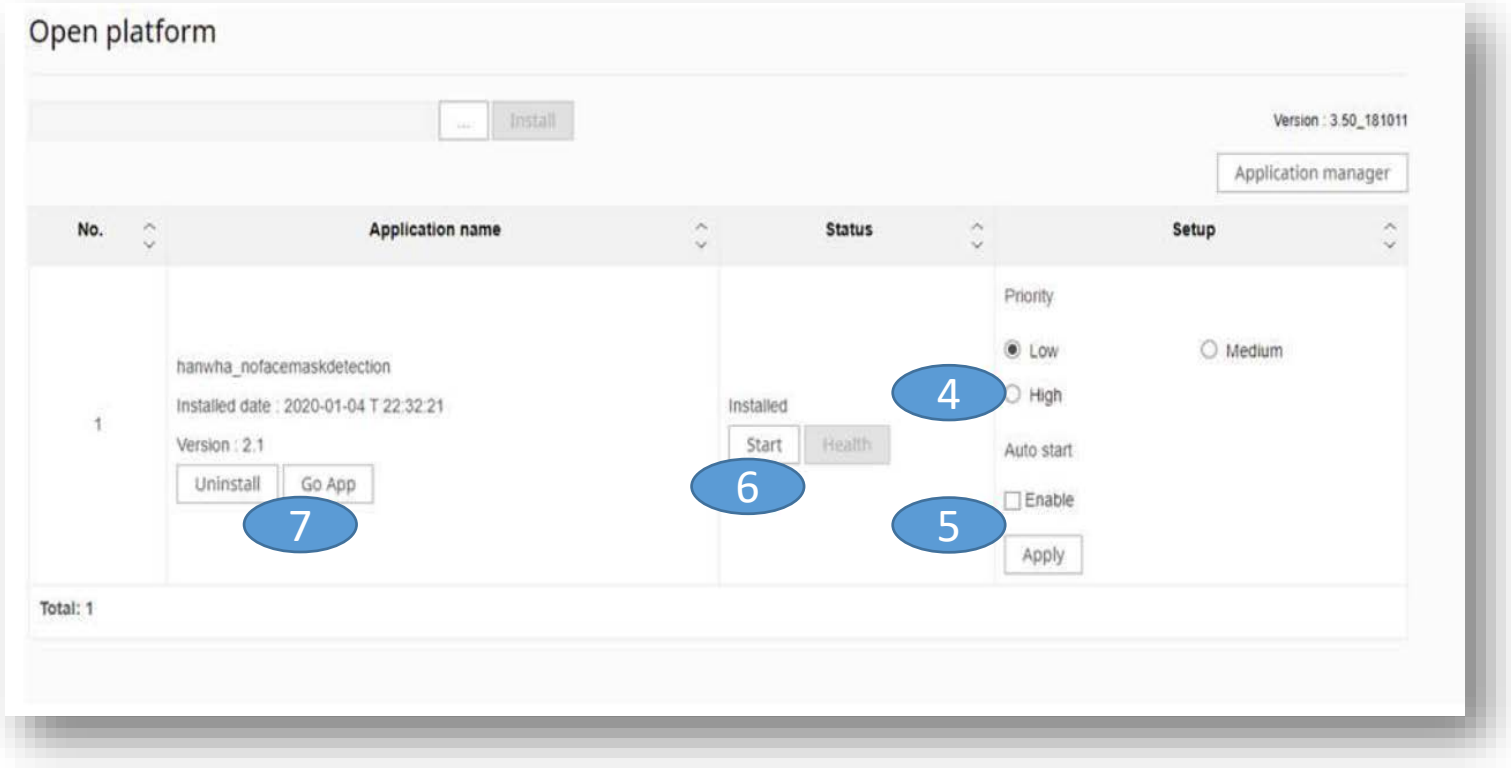
a2 Face Mask Detection:

Application Installation procedures:

1. Open the camera interface and pass to Open Platform page.
2. Click to “…” button and select the Downloaded a2 Application Installation Cap file
3. Click the “Install” button, follow prompts.
4. Select “High” for Priority.
5. Check “Enable” for Auto Start and click to “Apply” button.
6. Click to “Start” button to activate the app.
7. Click to “Go App” button to access to interface of the application.



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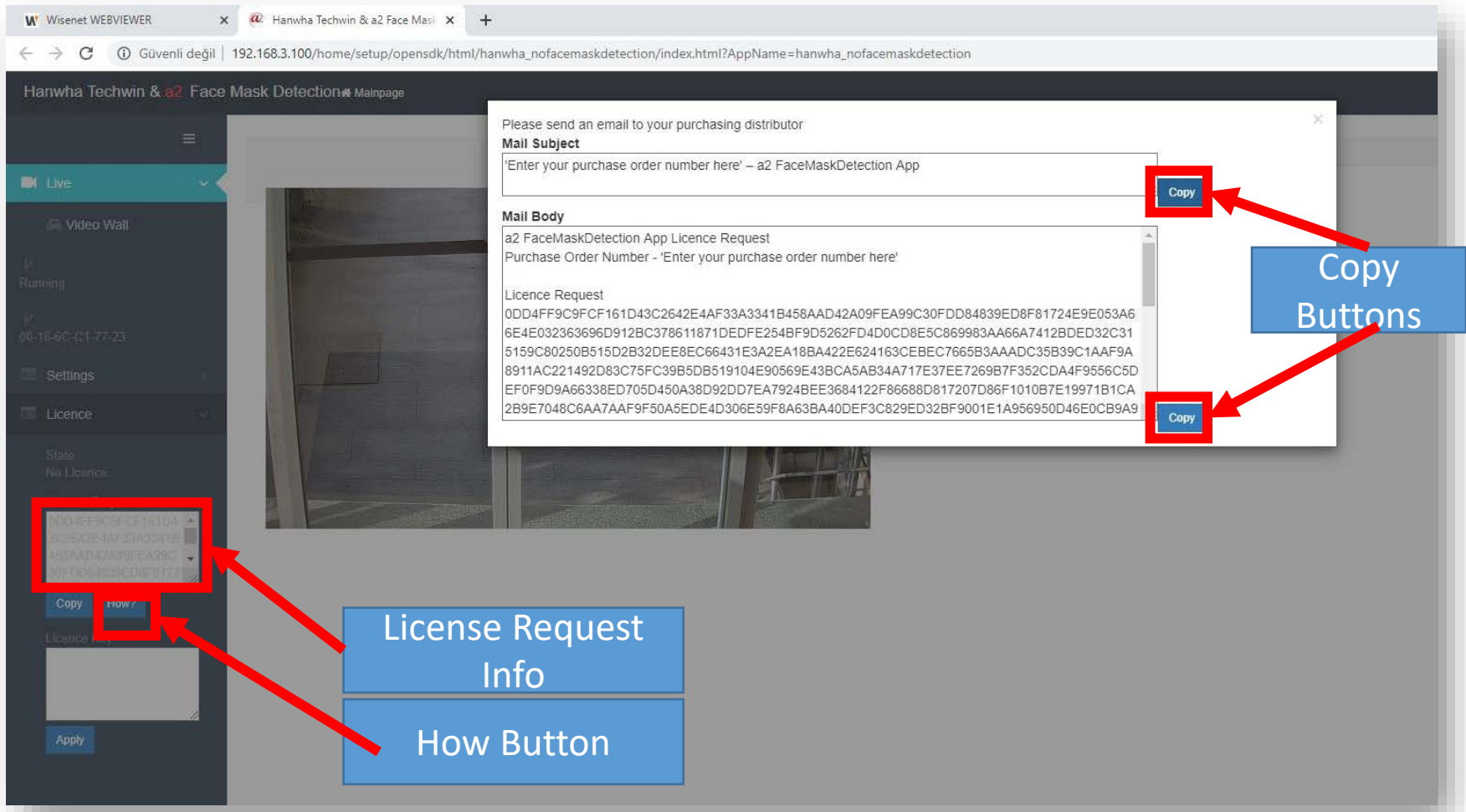
a2 Face Mask Detection:

License Activation Process:

a) Click “How?” button to see the e-mail format.
b) Click “Copy” button to copy the Subject field.
- Click “Copy” button to copy the Mail Body and Paste it to your e-mail field

a) Enter your purchase order number to mentioned area.
b) Send the email to fcm.license@hanwha.com
c) Wait up to 1 business day to receive License Key
d) Paste the License Key and click apply



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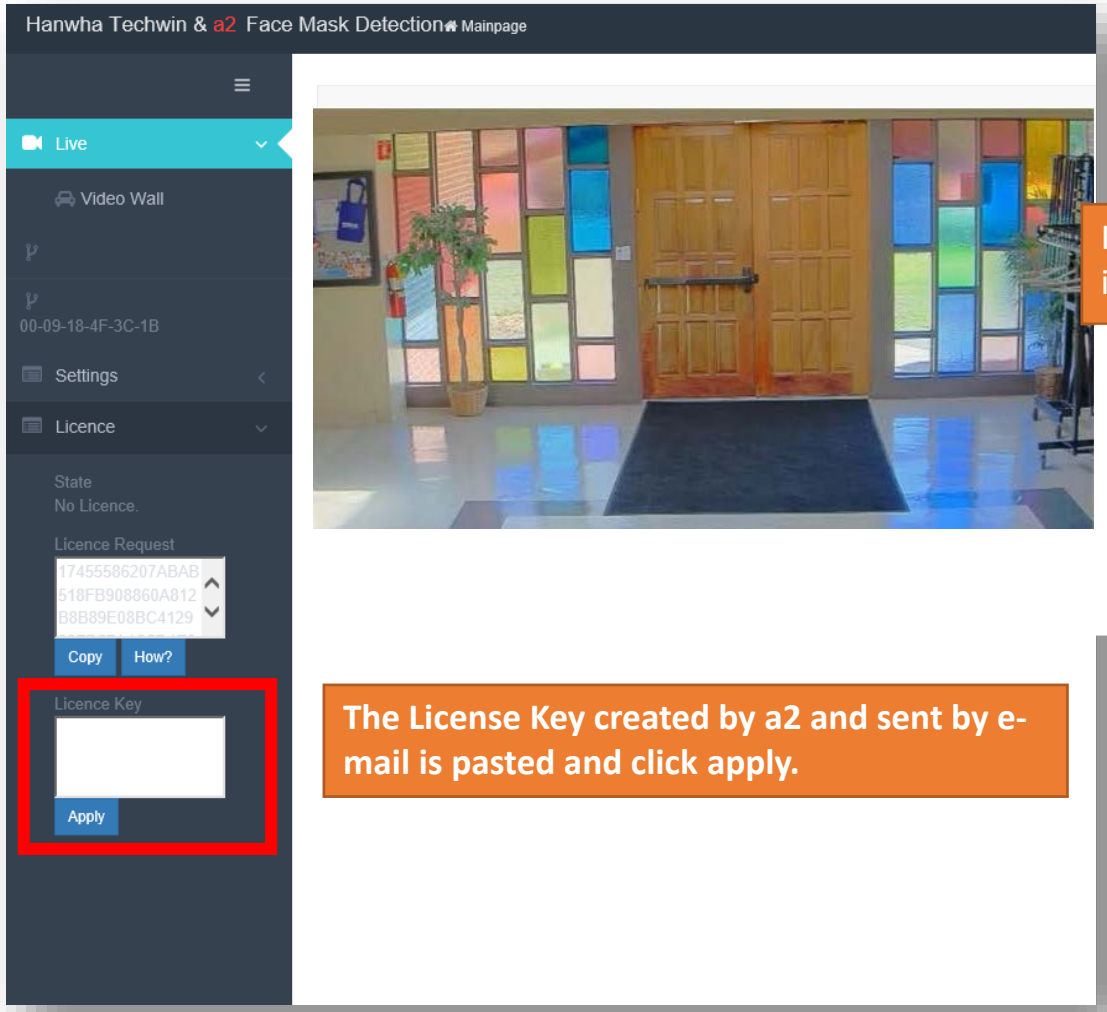
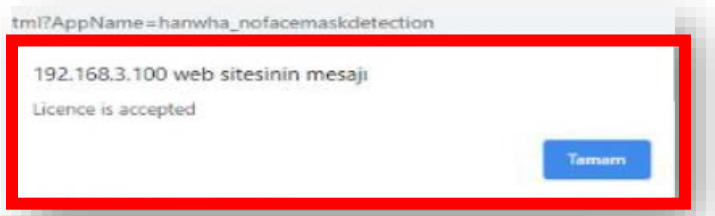
a2 Face Mask Detection:

License Activation Process:



The License Key created by a2 and sent by e-mail is pasted and click apply.



If the license is successfully applied, “License is accepted” message is displayed

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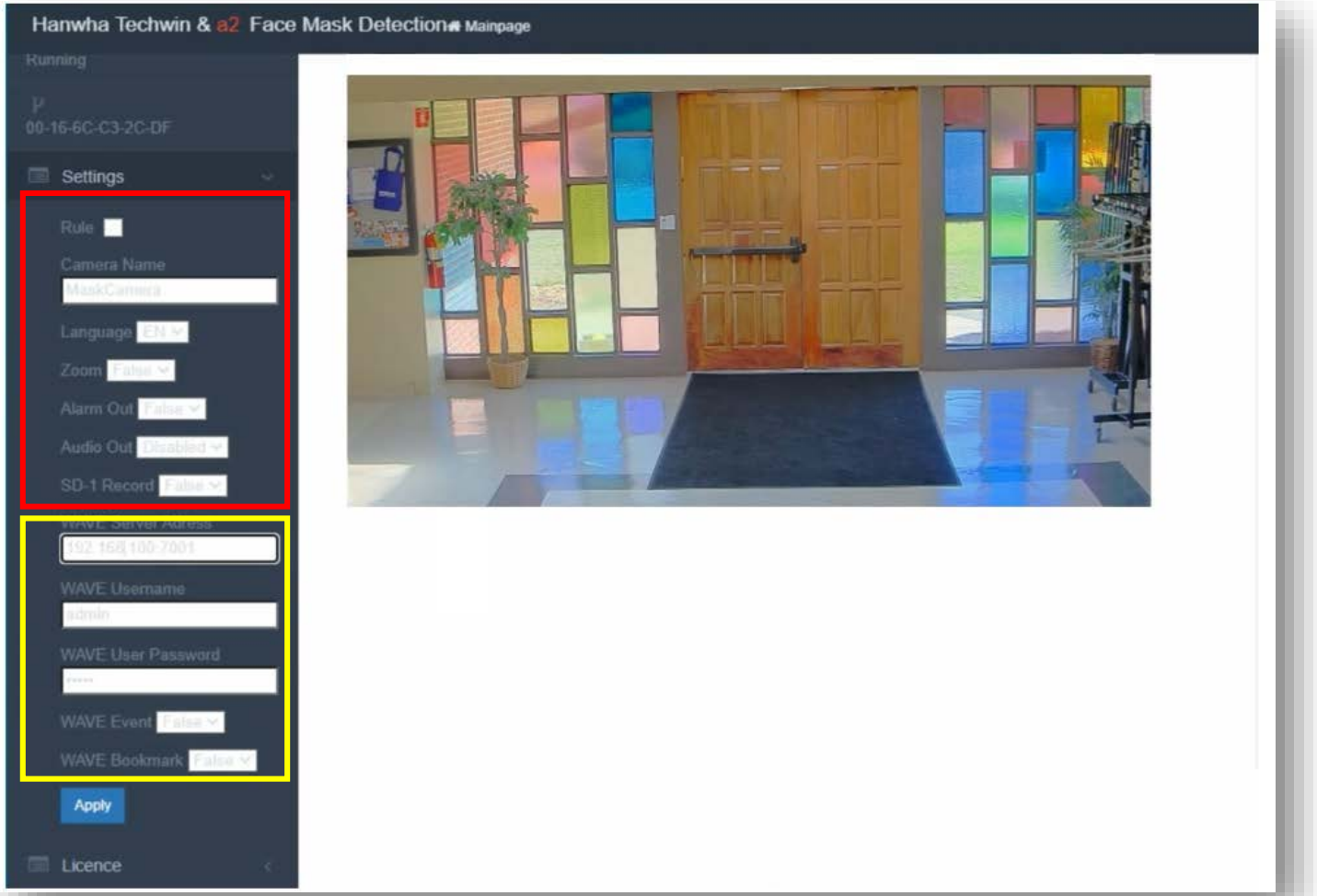
a2 Face Mask Detection:

Application Settings:



Basic System Settings (Red Box)
Rule : Displays Minimum/Maximum Face Size box on stream
Camera Name : Designated name for VMS Software
Zoom : Digital Zoom-In function (True/False)
Alarm Out : Camera output signal on alarm moment (True/False)
SD-1 Record : Recording the Alarm Pictures into SD Card (True/False)

Wisenet WAVE Settings (Yellow Box)
WAVE Server IP Address, Username, Password
WAVE Event : Event message (Enable/disable)
WAVE Bookmark : Bookmark (Enable/disable)

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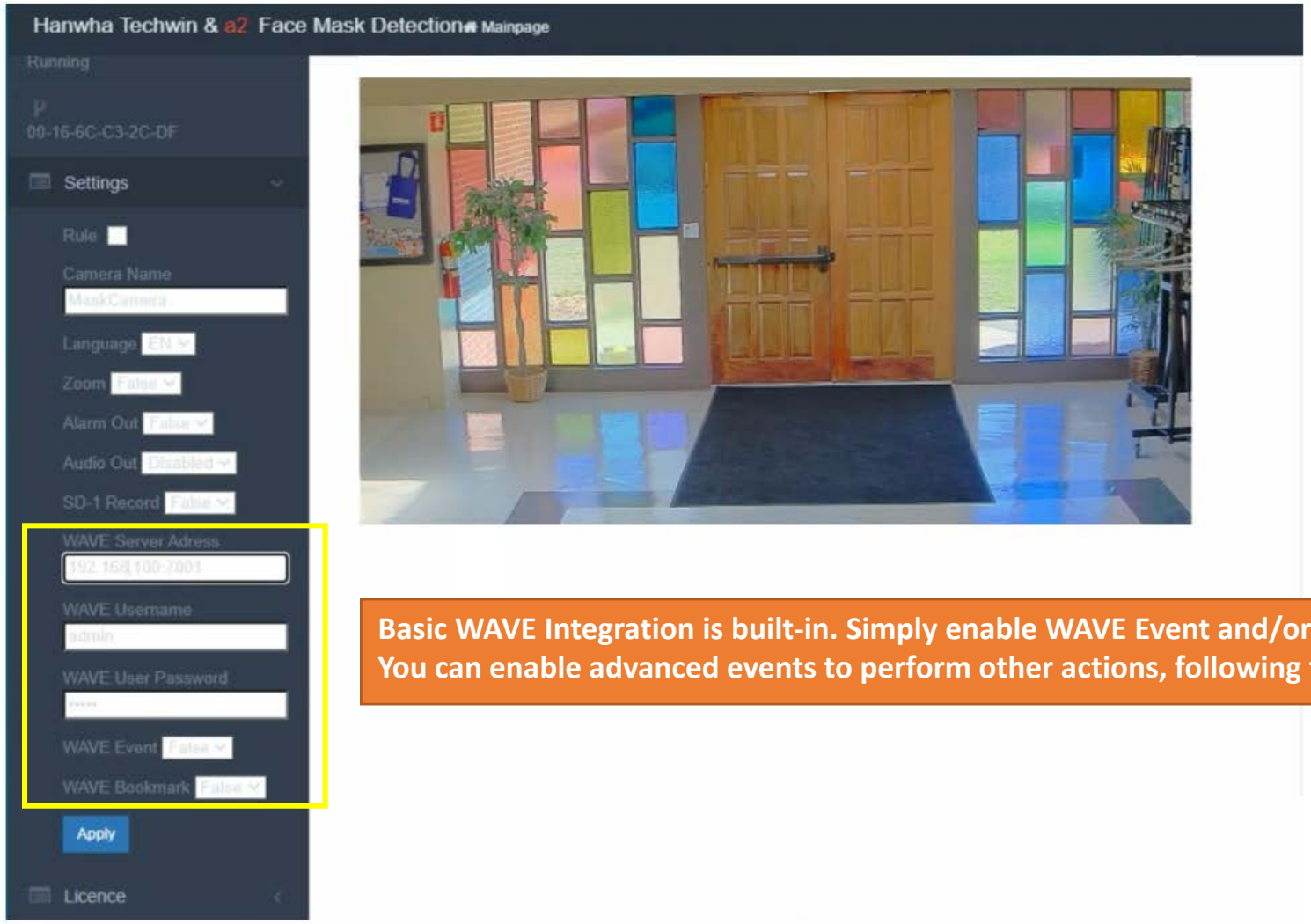
a2 Face Mask Detection:

WAVE Settings:



Basic WAVE Integration is built-in. Simply enable WAVE Event and/or bookmark in the camera application interface. You can enable advanced events to perform other actions, following the steps on the next slide.

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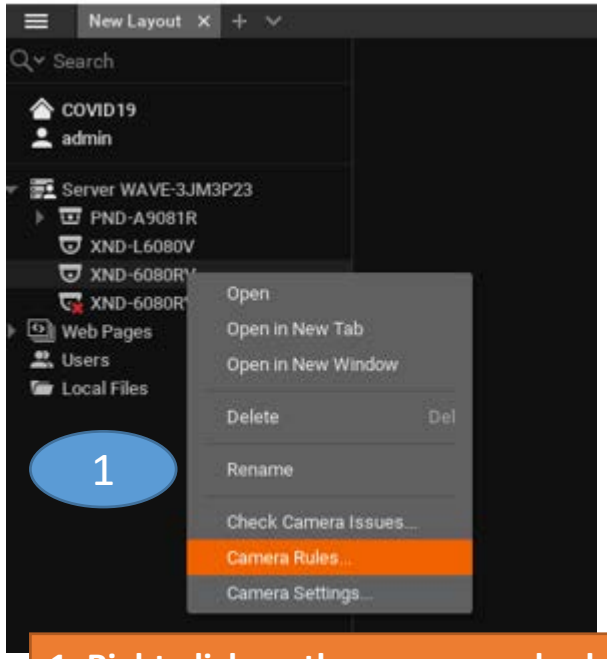
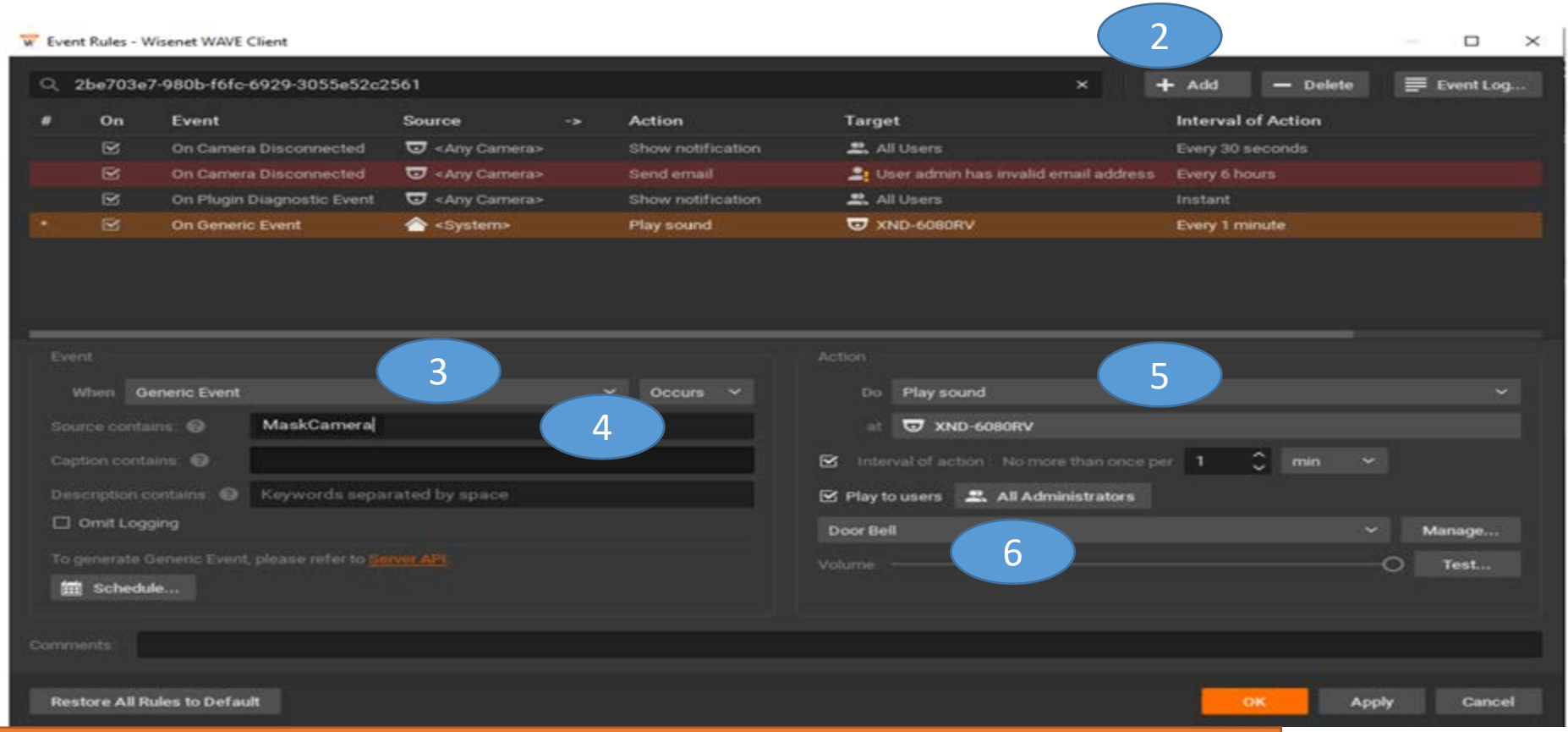
a2 Face Mask Detection:

Advanced

WAVE Settings:





1. Right-click on the camera and select Camera Rules
2. Click the + Add button
3. For the Event > When field, select Generic Event
4. For the Source Contains field, enter the name from the application settings menu Camera Name field. The default is MaskCamera.
5. For the Action field, select Do: Play Sound. Other/additional actions can be configured as necessary, following these steps.
6. Select the desired audio file to be played @ Camera connected Speaker

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Public View Monitors

Slide Show Function for COVID Messaging

- 10", 27", 32" or Retrofit models
- 2MP covert IP camera
- Recording In Progress customizable OSD text
- Face detection for deterrent
- Slide show function to display COVID messaging w/ VMD
- PIP options with decoder
- PoE or DC Power

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Flexible configuration

The OSD text can be customized to include Blinking text such “RECORDING IN PROGRESS” or “PLEASE WEAR A FACE MASK”.

Slide Show Function Description

The images are displayed sequentially for the dwell time set.

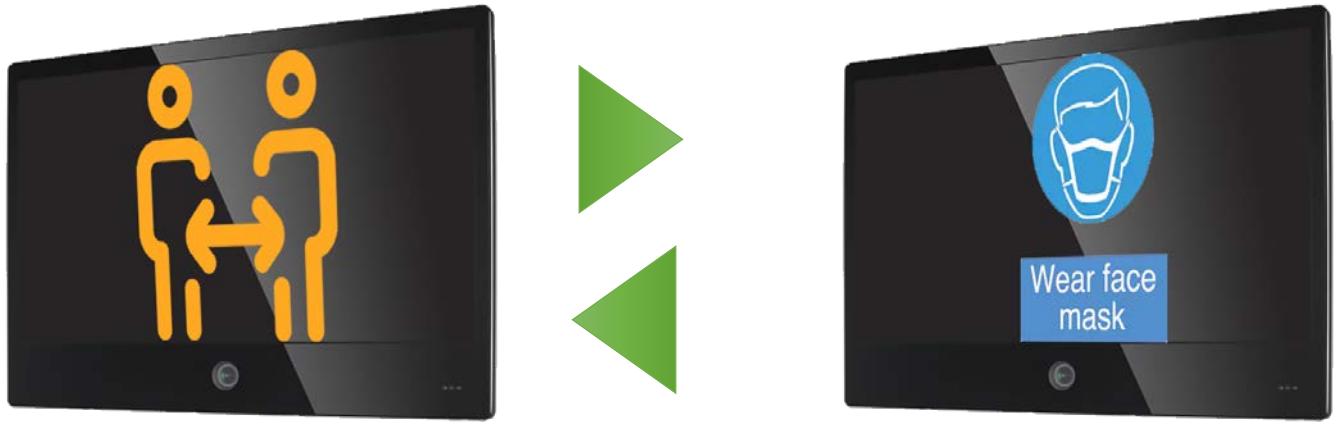


IMAGE1.BMP

Dwell Time

IMAGE2.BMP

Slide Show Function Description

The images are displayed sequentially for the dwell time set.

When motion is detected, the live video stream in shown. After a set time, the slide show restarts.

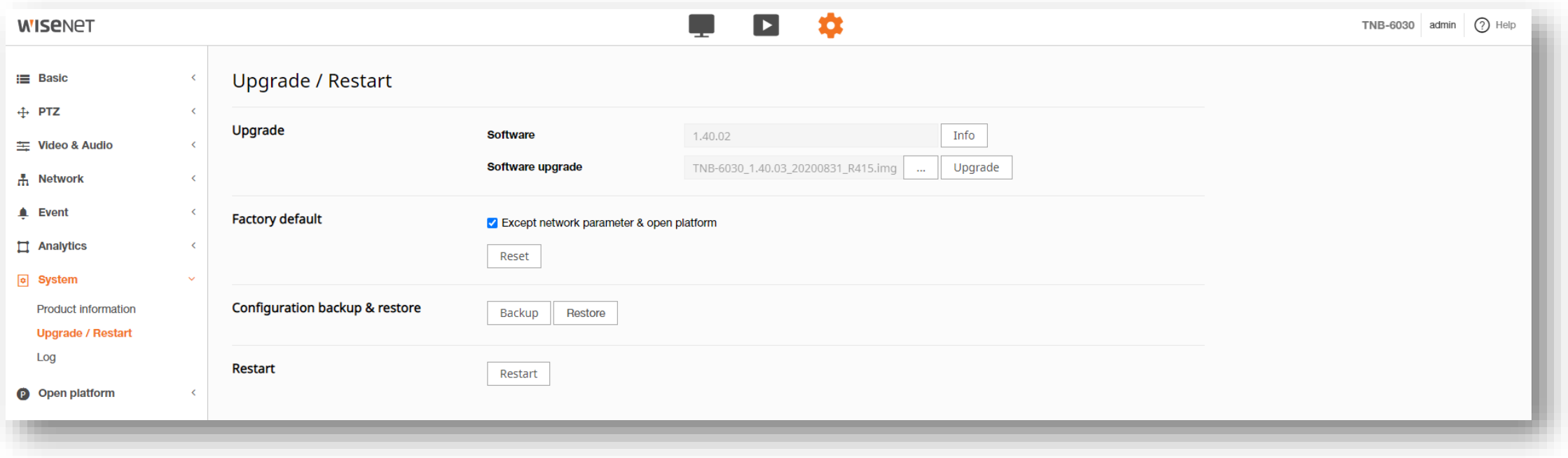
Requirements

To use the slideshow function, you need:

- TNB-6030 camera (may be included inside a PVM)
- TNB-6030 firmware 1.40.03 downloadable from website
- 16Gb or larger microSD card installed in the camera
- Image file(s) in BMP format
    - 1920x1080 resolution
    - 24-bit RGB
    - File name must use English characters and not include any spaces.

Upgrade firmware

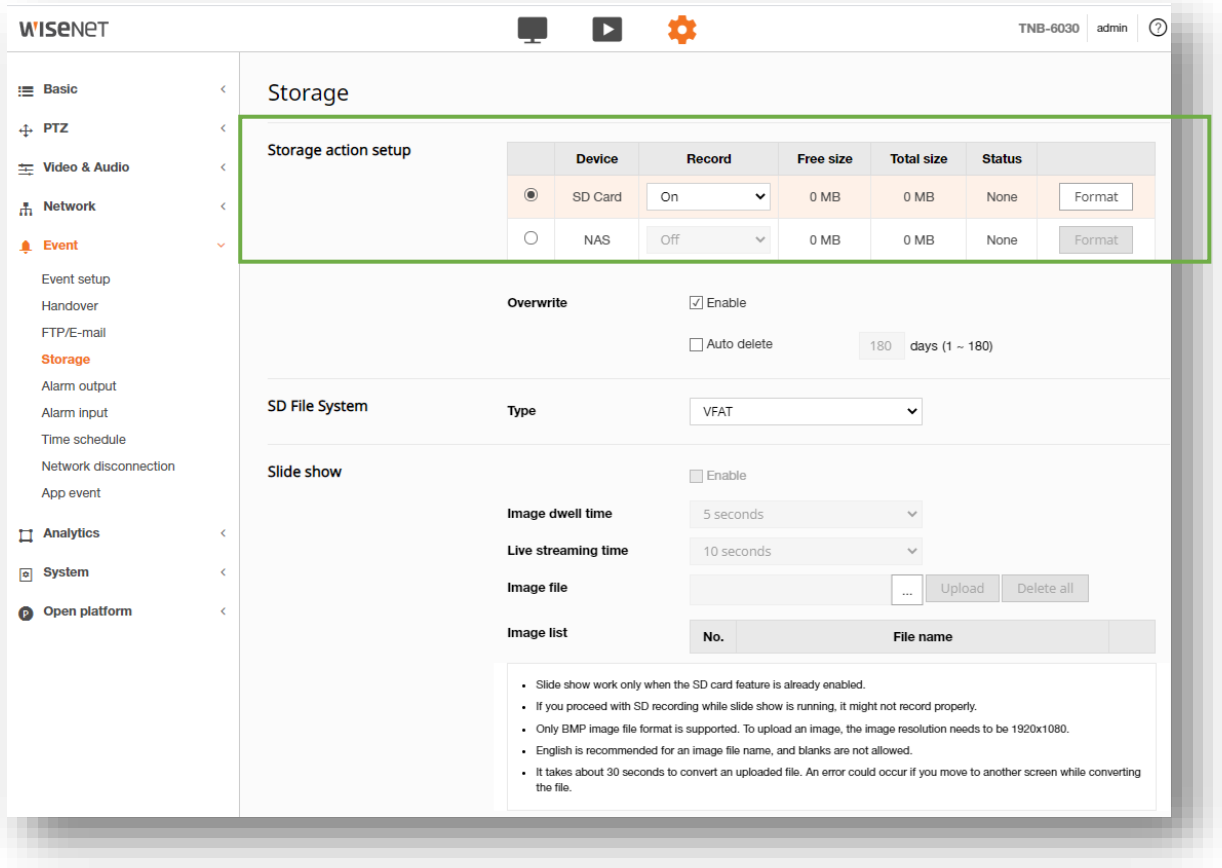
The firmware in the camera must be upgraded to version 1.41.03 or later.
The firmware can be upgraded using the Web Browser Interface or with the Wisenet Device Manager Tool.



Enable SD Card Function

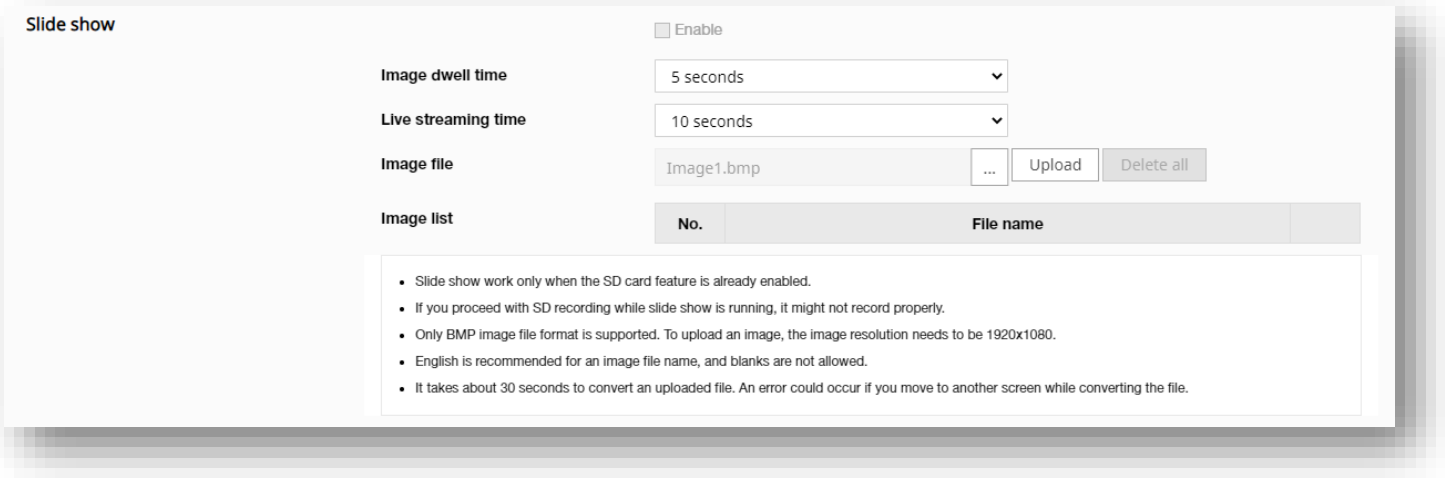
First, insert the SD card into the camera with the power turned off, or while the Record function is turned off.

Then, select the SD card and set the Record function to On, and click apply to save. The Status will display Recording to indicate that the card has been successfully mounted. The status may display formatting briefly. If you receive and error, please click the format button and wait for the format to complete.



Upload Images

- An SD card must be inserted and configured to upload images to the camera.
- Images must be uncompressed 24-bit RGB true color BMP files at 1980x1080 resolution.
- Select a file to upload by clicking browse button, and then click the Upload button.
- After a file is uploaded, the camera takes approximately 30 seconds for the file to be processed. Do not navigate away from the webpage while the processing indicator is displayed. After processing, it will be displayed in the list.
- Continue uploading additional images as needed. Up to 10 image files can be uploaded to the camera.



Enable slide show function, configure options

Once image files have been uploaded to the camera, the Slide Show function can be enabled and options configured:

- Enable the Slide show function

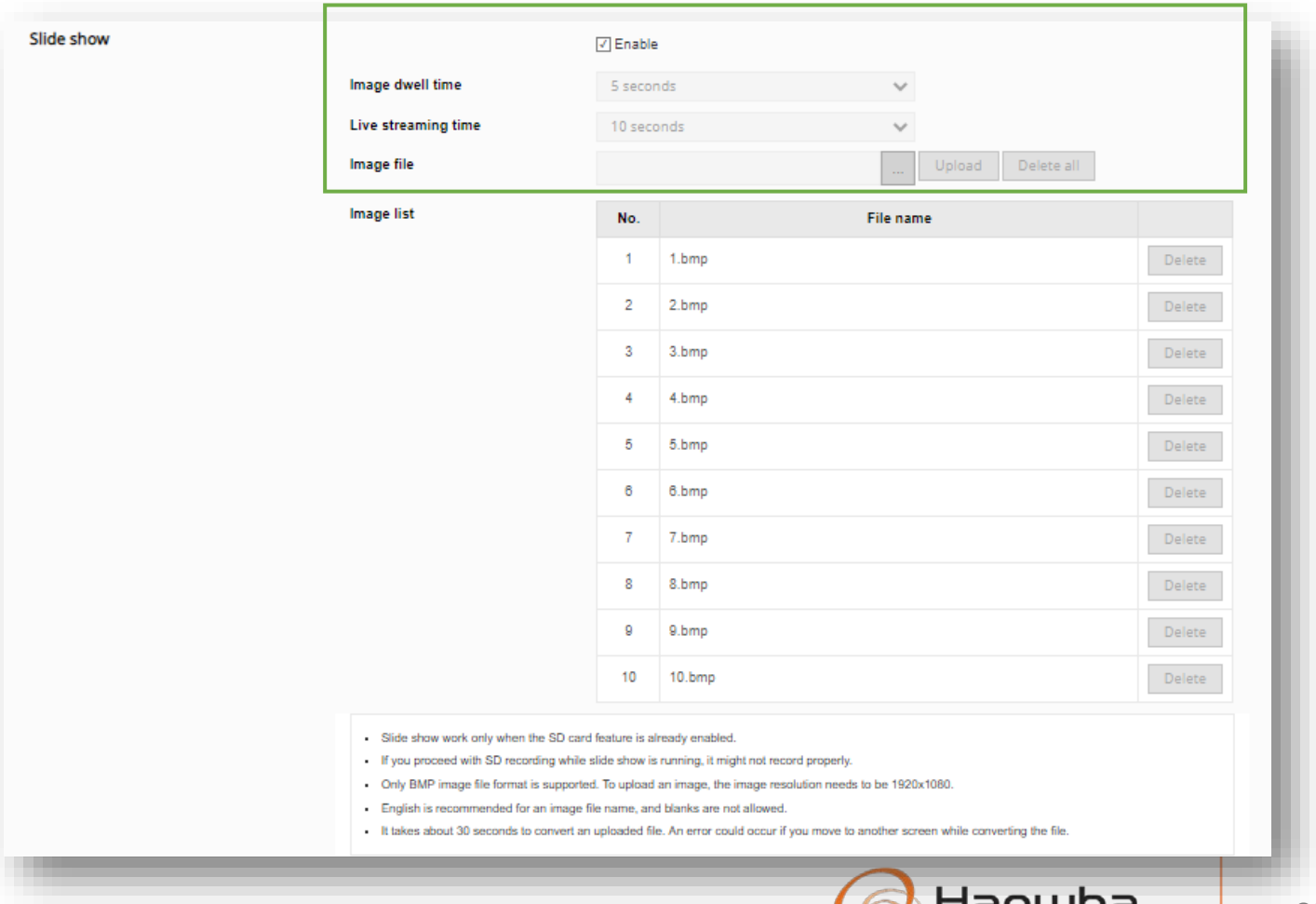
- Image Dwell Time

Determines the duration time that each image is displayed before it cycles to the next image in the list

- Live Streaming Time

Determines the duration time that the live video will be displayed when motion is detected before returning to the slideshow function.

You can also delete individual images or all images.



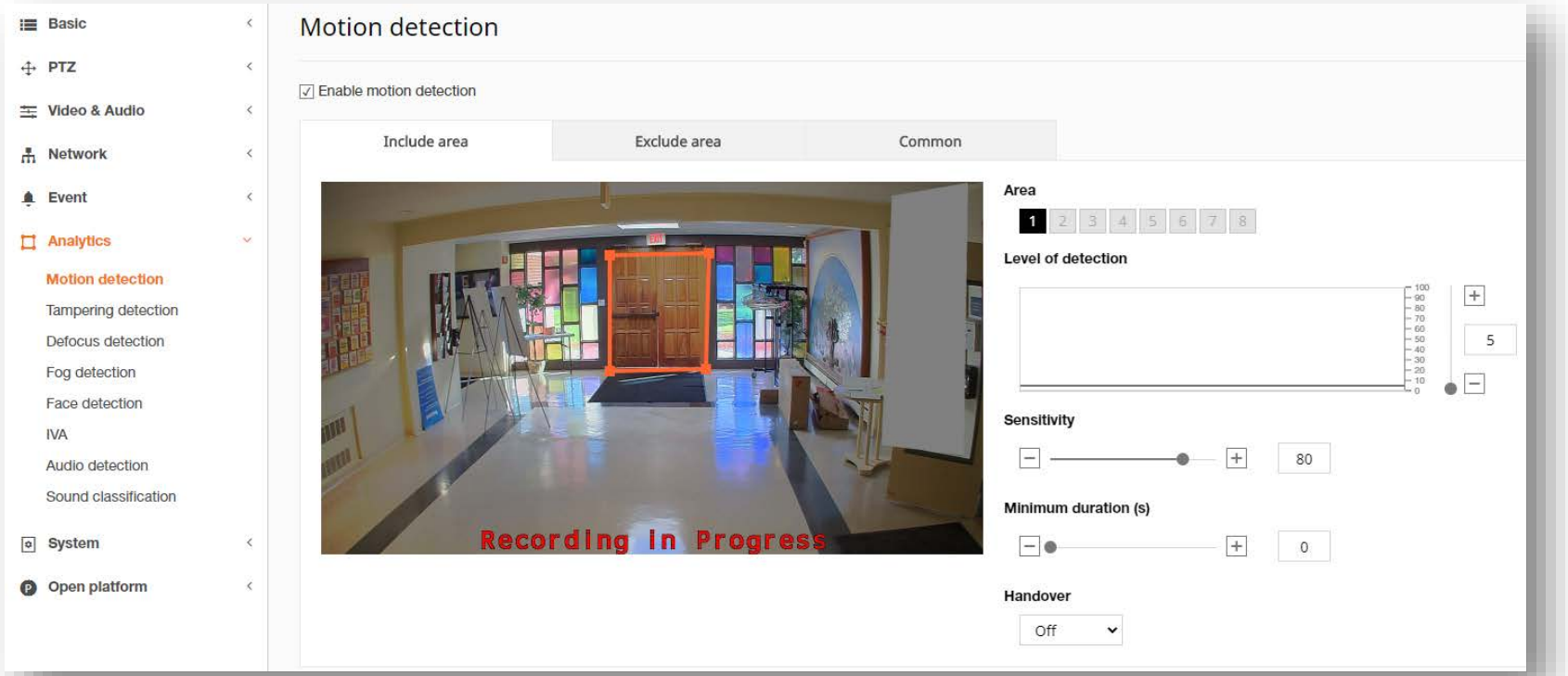
Note

If the SD card is formatted, the Slide Show function will be disabled.

Click the Delete All Images option to clear the database after formatting an SD card before uploading new images and enabling the Slide Show function.

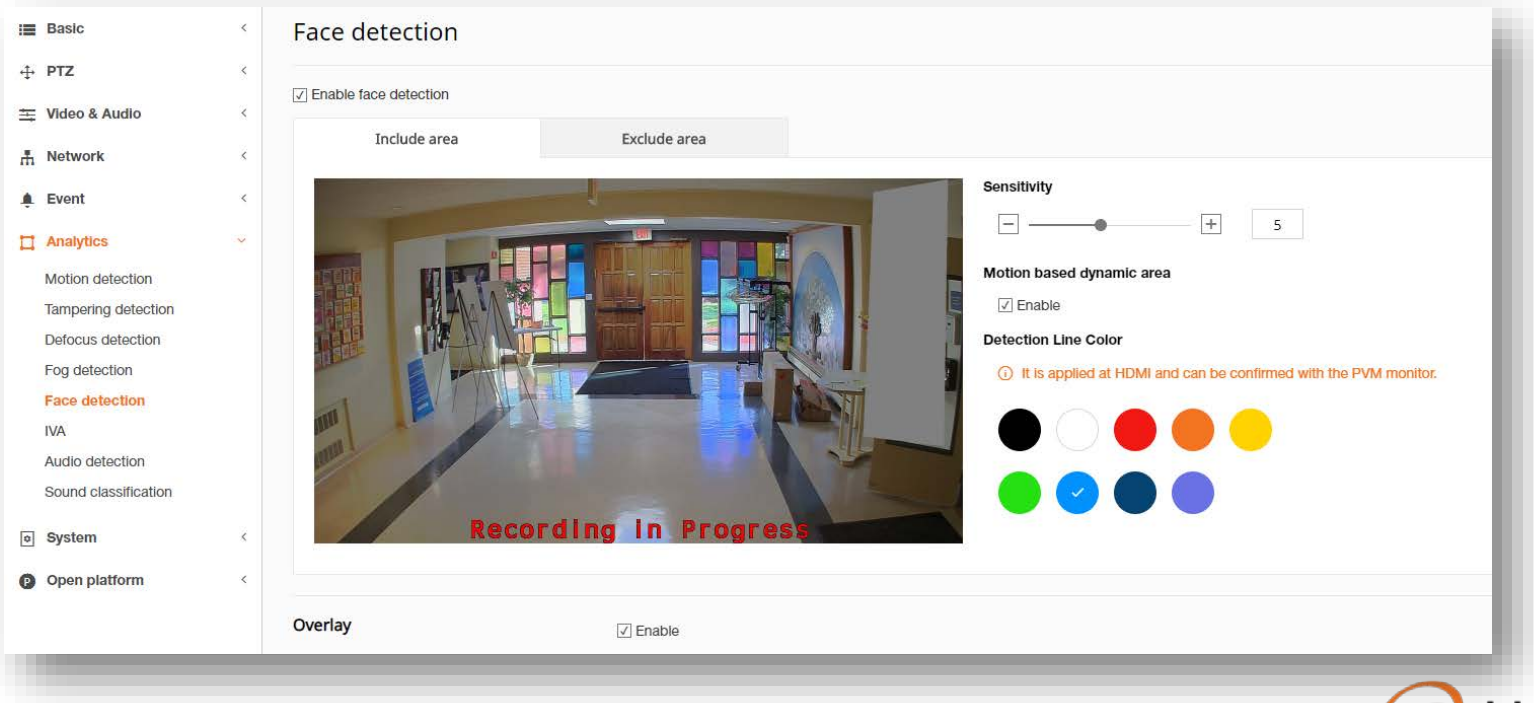
Motion Detection Trigger

To have the motion detection trigger the camera image to be displayed immediately, enable the motion detection option. You can configure custom areas and settings as desired. A custom motion detection zone allows movement in a specific area to trigger the live video stream. This can be useful to prevent triggers from other aisles, windows, doors, etc. The Minimum duration allows the camera to ignore quick movements requiring motion to be present for a specific interval.



Face Detection (Optional)

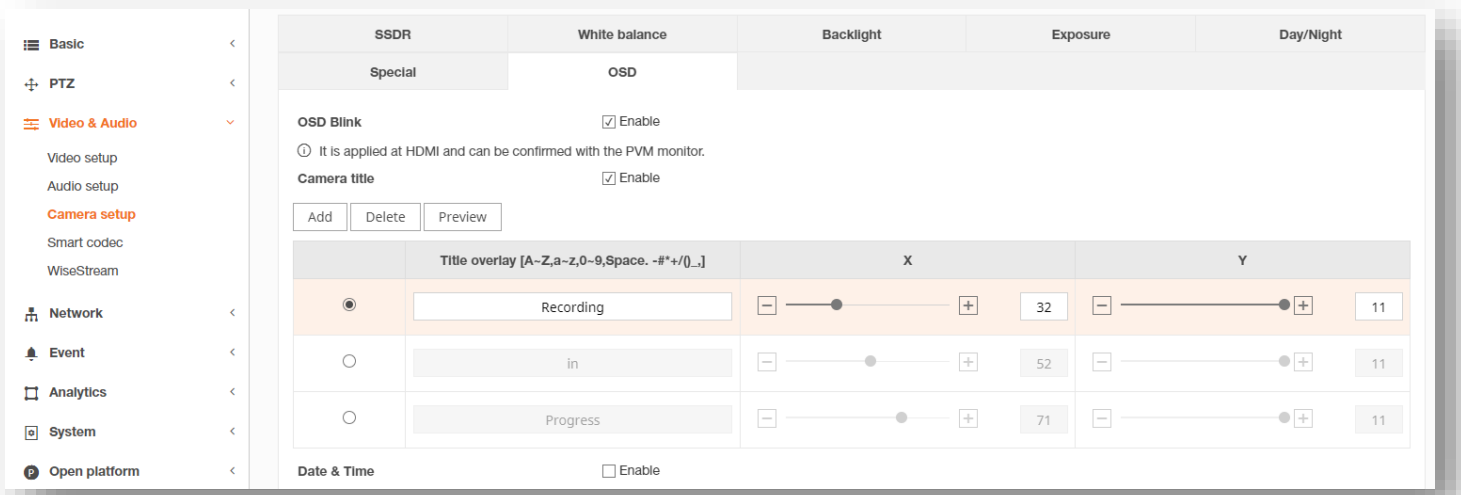
Face detection is commonly used with a PVM as a deterrent to shoplifting or other places where you want to draw someone's attention to the monitor. The face detection analytic has an option to include an overlay over the person's face. You can select a color for the overly. This allows you to capture a great face show, as well as display messaging. Simply enable the analytic, and adjust the sensitivity as needed. It is recommended to enable the Motion Based Dynamic area, so that the camera will look for faces wherever motion is present.



Configure OSD (Optional)

Choose from blinking, 3 font sizes, 6 font colors, & 4 transparency options.

A maximum of 5 lines of text can be added. If longer text is needed, multiple entries can be added and the X axis adjusted, as shown.



Notes

It is recommended to NOT record to the SD card when the slideshow function is being used (Normal recording is disabled, and the record checkbox is not enabled for any analytic).

The SD Card Encryption function can not be used with the Slide Show Function.

It is recommended to disable the SD card when inserting or removing an SD card, OR power off the camera.

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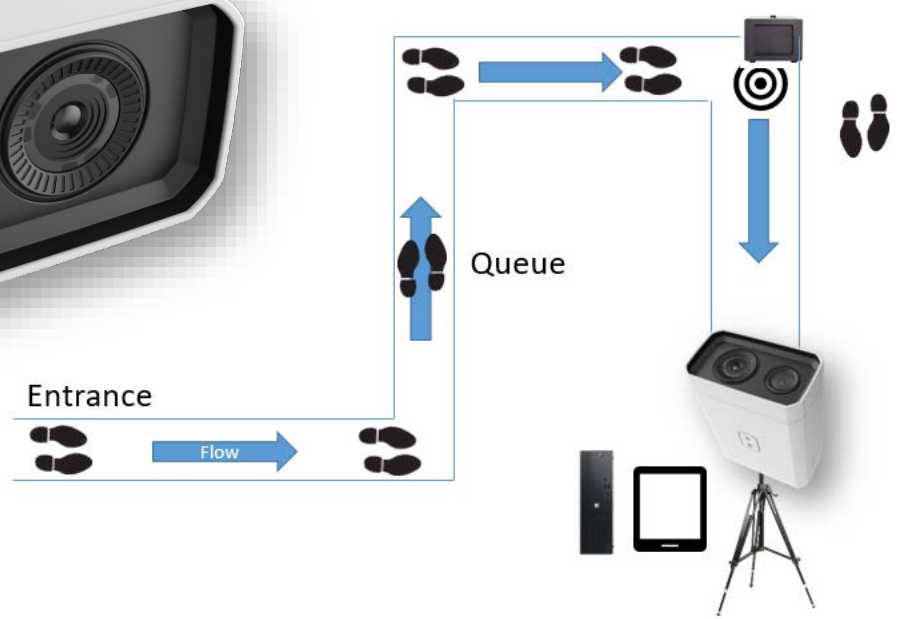
Elevated Body Temperature Detection

TNM-3620TDY

- Purpose built Bi-Spectral AI / Thermal
- Multi-person detection
- Accuracy within +- 0.54°F w/ Blackbody, .9°F w/o Blackbody
- Verification & identification of subject with visible camera
- In progress: FDA 510K Class 1



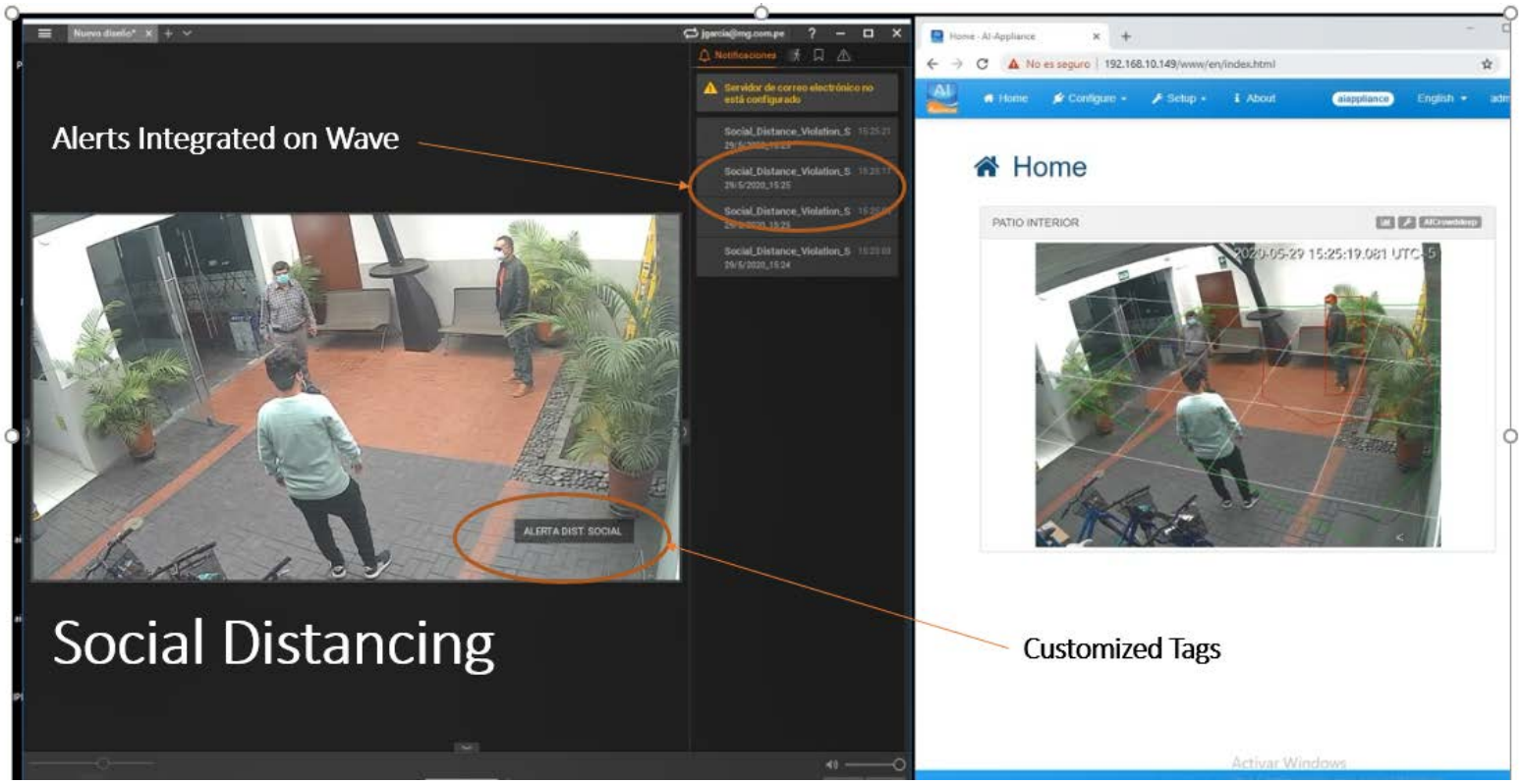
CH1 : Visible

CH2 : Thermal

Hanwha Techwin America

Social Distancing Analytics Server Software

- Works with any Wisenet Camera
- Integration into Wisenet WAVE VMS
- Provides Social Distancing, Overcrowding, & Over Occupancy notification
- Deep learning allows camera placement flexibility
- Runs on your own server



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