



**VAIDIO 6.0.0  
SETUP GUIDE**

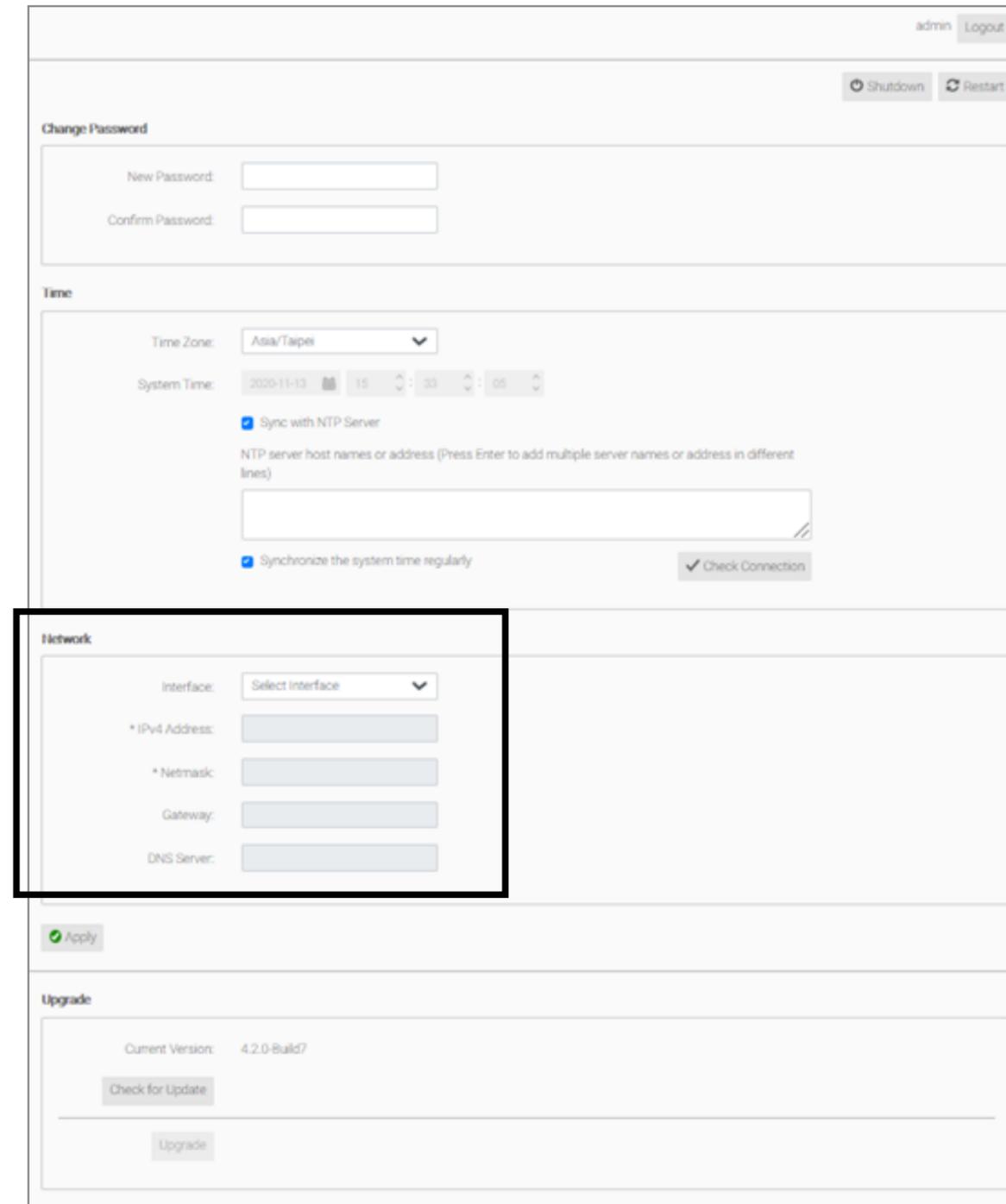
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## SYSTEM MANAGEMENT

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# SYSTEM SETUP

- ❑ Working Environment Preparation
  - ❑ PC/Laptop with Windows/Mac OS X
  - ❑ Google Chrome Web Browser: [https://www.google.com/intl/en-US\\_ALL/chrome/](https://www.google.com/intl/en-US_ALL/chrome/)
  - ❑ Vaidio server
  - ❑ PoE switch
- ❑ How to set up Vaidio in your network: <https://youtu.be/WK820iO4cBk>
- ❑ Default Vaidio IP address: 192.168.100.100
- ❑ How to change the IP address of your Vaidio server:
  - ❑ Log into Admin Portal: 192.168.100.100:8000/system
  - ❑ **Network** > fill out new **IP address** and **Netmask**



The screenshot shows the Vaidio Admin Portal interface. At the top right, there are links for 'admin' and 'Logout'. Below that are 'Shutdown' and 'Restart' buttons. The main content area is divided into several sections:

- Change Password:** Contains two input fields for 'New Password' and 'Confirm Password'.
- Time:** Includes a 'Time Zone' dropdown menu (set to 'Asia/Taipei'), 'System Time' (2020-11-13 15:30:05), a checkbox for 'Sync with NTP Server', a text area for 'NTP server host names or address', and a 'Check Connection' button.
- Network:** This section is highlighted with a black box. It contains an 'Interface' dropdown menu (set to 'Select interface'), and input fields for '\* IPv4 Address', '\* Netmask', 'Gateway', and 'DNS Server'.
- Upgrade:** Shows 'Current Version: 4.2.0-Build7' and buttons for 'Check for Update' and 'Upgrade'.

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## SYSTEM SETUP (CONT.)

Check that the Vaidio unit works properly after it has been connected:

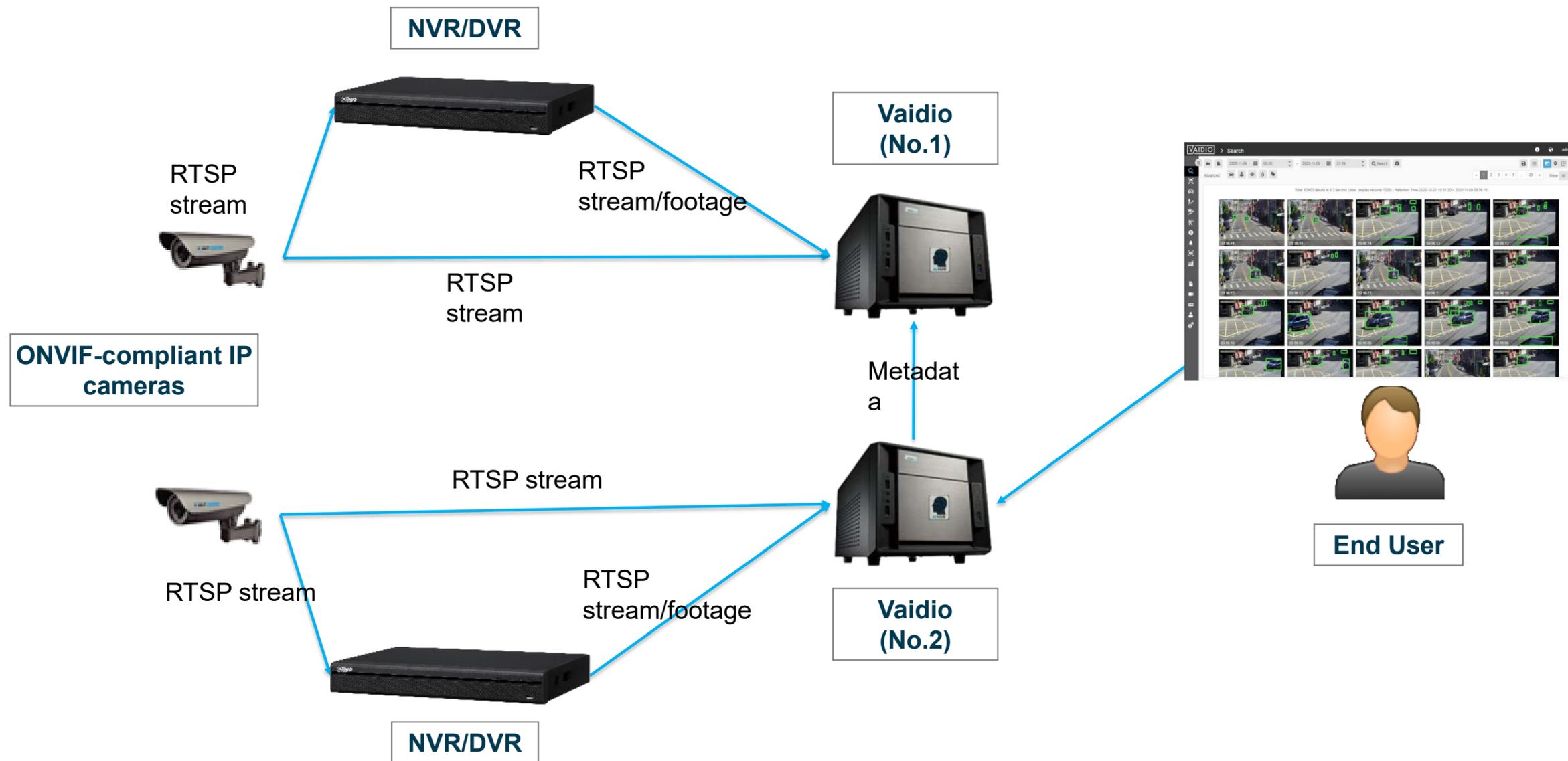
1. [Login](#)
2. [Add camera](#)
3. [Search](#) for “person”
4. [Set up](#) and [receive](#) alert for “person”

To check the system settings and/or upload new software licenses, go to [System](#).

If you have any questions, email [support@IronYun.com](mailto:support@IronYun.com) or your local IronYun representative.

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# NETWORK CONFIGURATION



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# USER INTERFACE

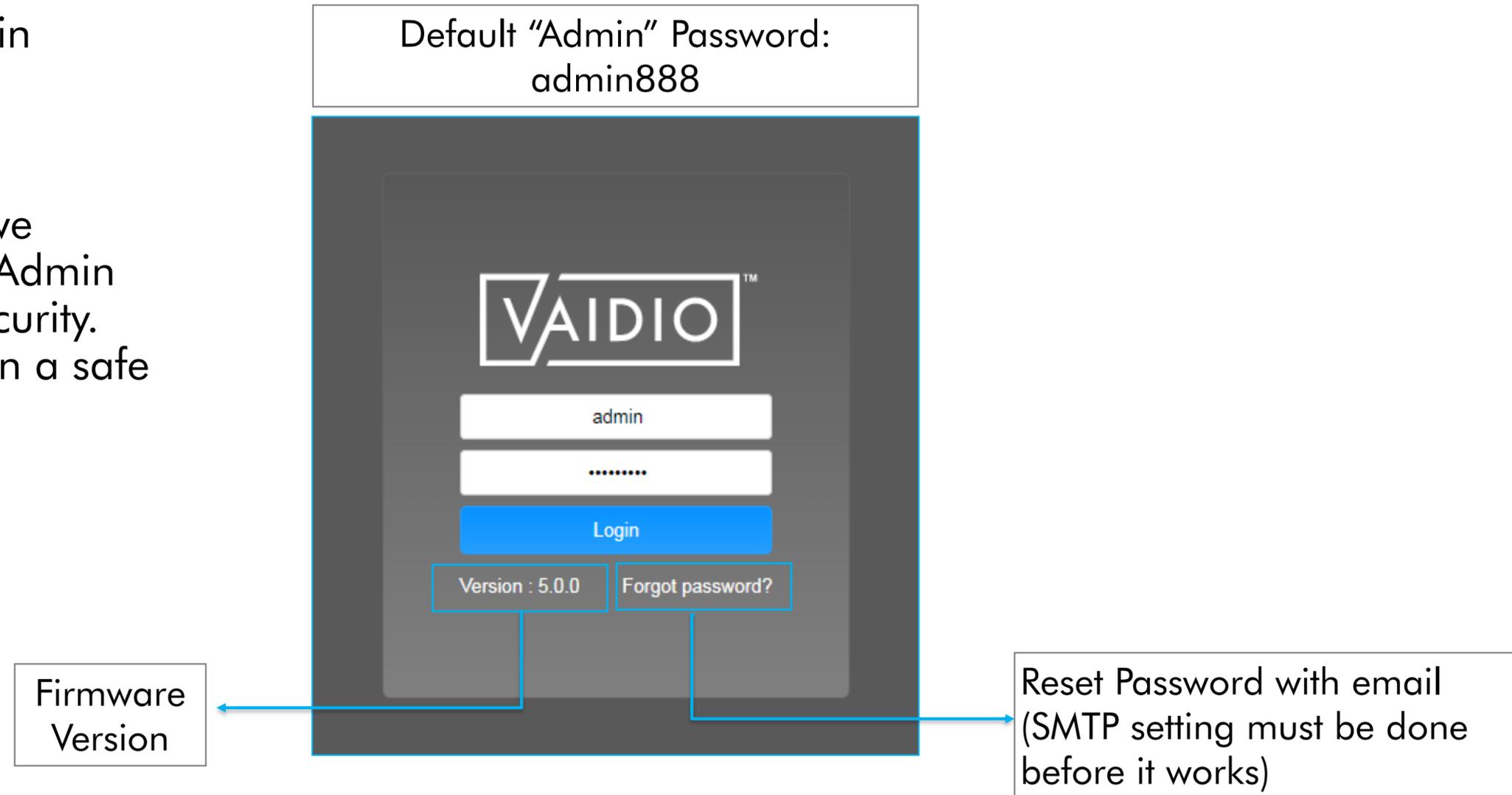
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- [Login](#)
- [User Menu](#)
- [Object Types](#)

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# LOGIN

- ❑ Login with the default admin account and password
  
- ❑ Note: after the first login, we recommend changing the Admin password for maximum security. Record the new password in a safe place.



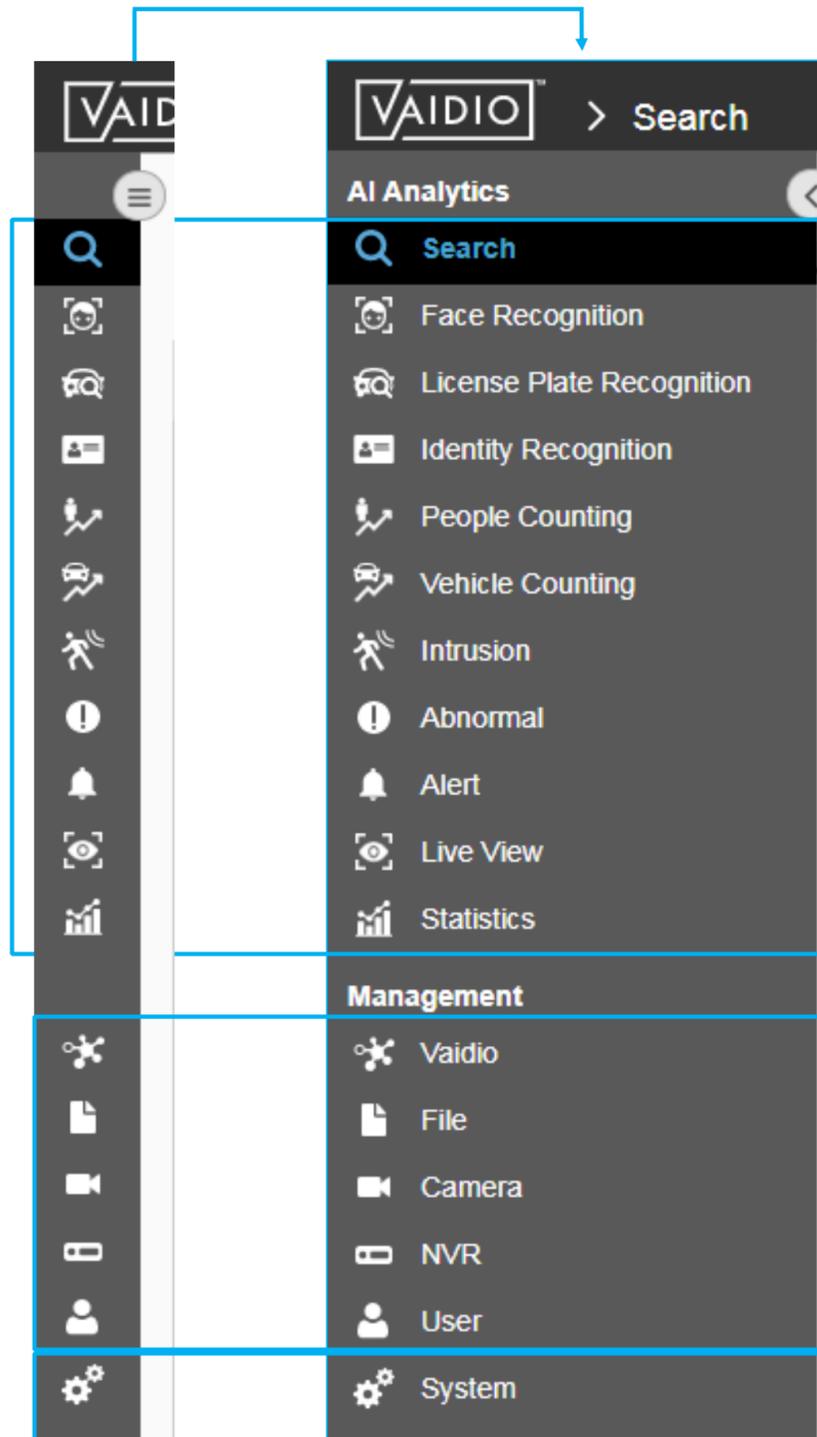
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# USER MENU

Analytic Functions

System Management

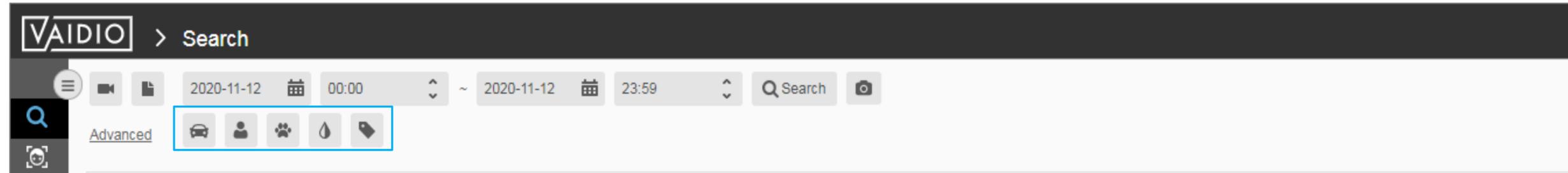
System Configuration



Toggle to expand menu

[Return to User Interface](#)

# OBJECT TYPE



## Vehicle

- All Vehicle >
- Bicycle >
- Bus >
- Car >
- Motorcycle >
- Truck >

## Person

- Head >
- Person >

## Animal

- Bear >
- Cat >
- Cow >
- Dog >
- Horse >

## Object

- |                |           |              |              |
|----------------|-----------|--------------|--------------|
| Airplane >     | Gloves >  | Skateboard > | Wheelchair > |
| Backpack >     | Handbag > | Skis >       |              |
| Bag >          | Handgun > | Smoke >      |              |
| Ball >         | head >    | Snowboard >  |              |
| Baseball_bat > | Kite >    | stroller >   |              |
| Boat >         | Knife >   | Suitcase >   |              |
| Cell_phone >   | Laptop >  | Surfboard >  |              |
| Chair >        | Plant >   | Tie >        |              |
| Fire >         | Racket >  | Train >      |              |
| forklift >     | Rifle >   | Umbrella >   |              |

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## **CAMERA MANAGEMENT**

---

- [Add New Camera](#)
- [Camera Authentication](#)
- [Add Axis Camera](#)
- [Select AI Model](#)
- [Configure Camera Profile](#)
- [Define General Region of Interest](#)
- [Activate AI Engine & ROI](#)
- [Camera Health Management](#)
- [GPS](#)
- [Indoor Map](#)

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# ADD NEW CAMERA

Input camera info and URL to receive camera live steaming

Support 5 types of camera source inputs:  
 1.Camera IP Address  
 2.RTSP  
 3.Camera APP  
 4.External  
 5.Video File  
 (For types 3-5. refer to the next slide)

Preview to check the connection  
  
 Note: If Camera APP is selected as the camera type, Preview is not supported

To have video playback of the camera stream, make sure to link the NVR to the camera (add NVR to Vaidio first to have it available in the dropdown list)

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# ADD NEW CAMERA (CONT.)

Camera URL

Type : Video File

Road traffic video for object recognition.mp4

Play : Loop

Once

Loop

---

Camera URL

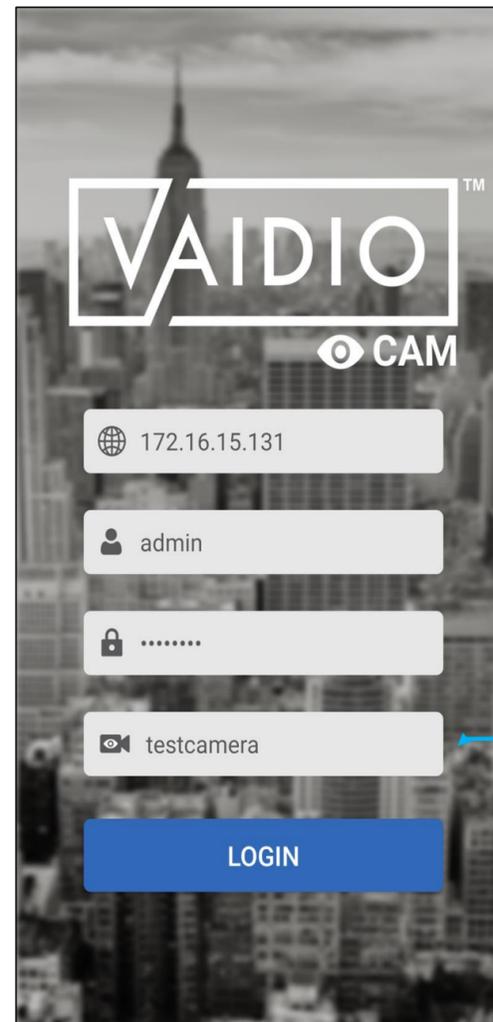
Type : External

\* Mapping ID : testvmssystem

Camera URL

Type : Camera APP

\* Mapping ID : testcamera



Mapping ID must be **identical** to the ID on the Vaidio Cam.

- ❑ **Video File:** Select the video file in the file list (the file must be uploaded to appear in the list, see [Upload Video](#)) and set it to play once or loop. The video file will appear as a live stream for real-time analysis and search.
- ❑ **External:** To connect the camera from the 3<sup>rd</sup>-party VMS system. External alerts via API may be used to develop plug-ins into Vaidio

- ❑ **Camera APP:** Download Vaidio Cam app on a smartphone. Connect Vaidio to Vaidio Cam to turn the mobile camera into a live camera and analyze the video stream in real time.

(Note: the video streaming from Vaidio Cam can only perform FR and LPR analytics.)

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# ADD AXIS CAMERA

Add camera using RTSP (circumvent time/date sync issue):

- Different camera models may have different RTSP stream outputs
- Example RTSP output:  
rtsp://ipaddress/onvif-media/media.amp?profile=profile\_1\_h264&sessiontimeout=60&streamtype=unicast

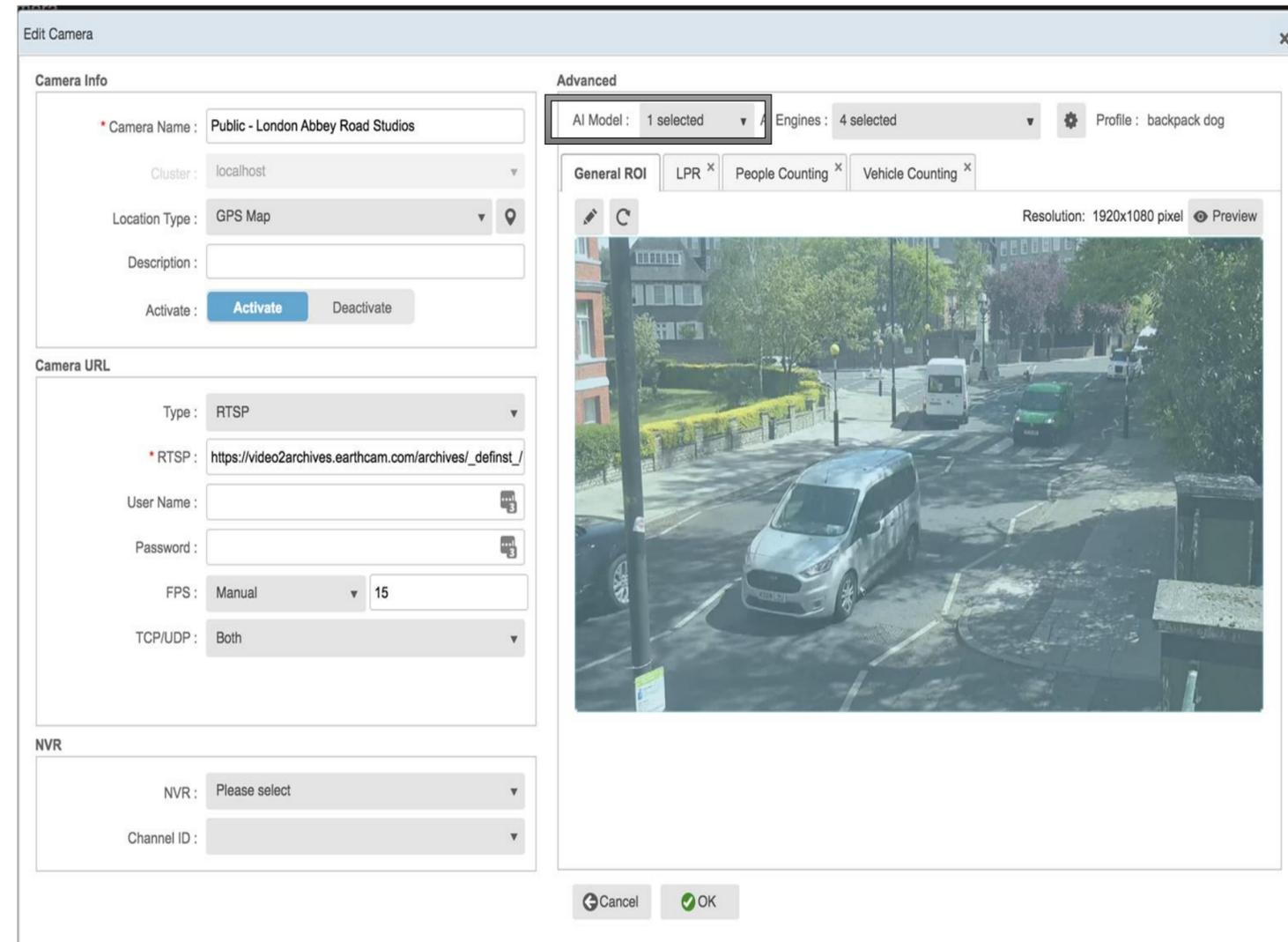
Add camera using IP Address / Domain name:

1. Make sure to have an ONVIF user created on the Axis camera and use that login on Vaidio
2. Disable "Replay Attack Protection" on the camera by going to System > Plain config > Web Service and uncheck the box. The User can do this temporarily to check whether the time is an issue.
3. Update the firmware to their latest version 9.80.2.2: [https://www.axis.com/en-us/download/bin/15381#axis\\_destination=/en-us/products/axis-q6125-le/support-and-documentation](https://www.axis.com/en-us/download/bin/15381#axis_destination=/en-us/products/axis-q6125-le/support-and-documentation)

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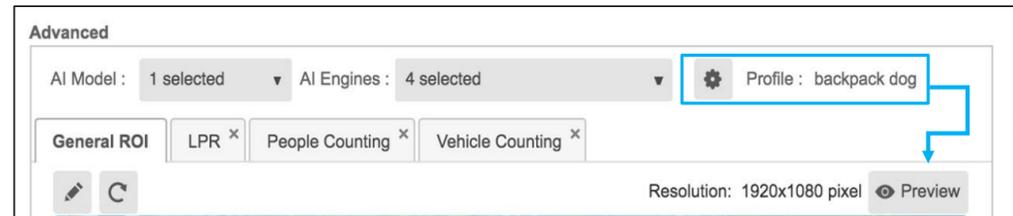
# SELECT AI MODEL

- ❑ In **Camera > Edit > Advanced > AI Model**, select the needed model(s) from the dropdown list for this particular camera
- ❑ The model selected determines the object type(s) available for detection
- ❑ By default, the **General** model (30+ object types) is selected – most commonly used
- ❑ The models available to select in the list are models installed and activated for this Vaidio server (check **System > AI Models** to see which model(s) have been installed and selected). Contact IronYun if the model you need has not been installed.

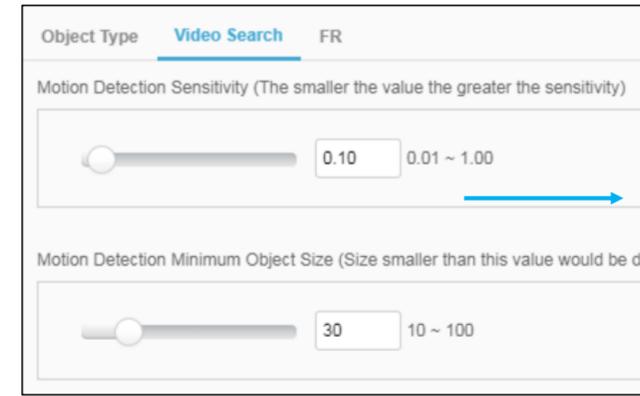
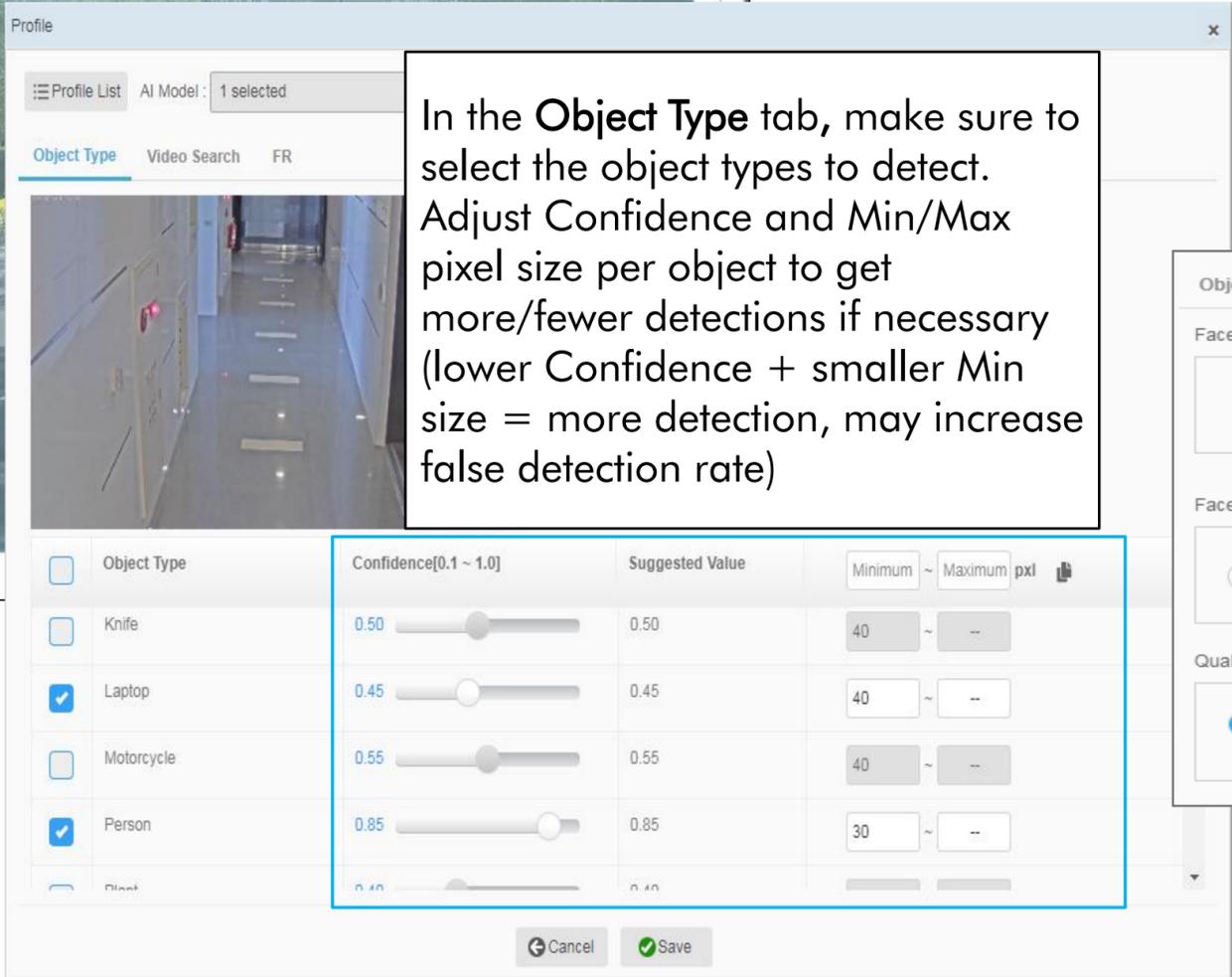


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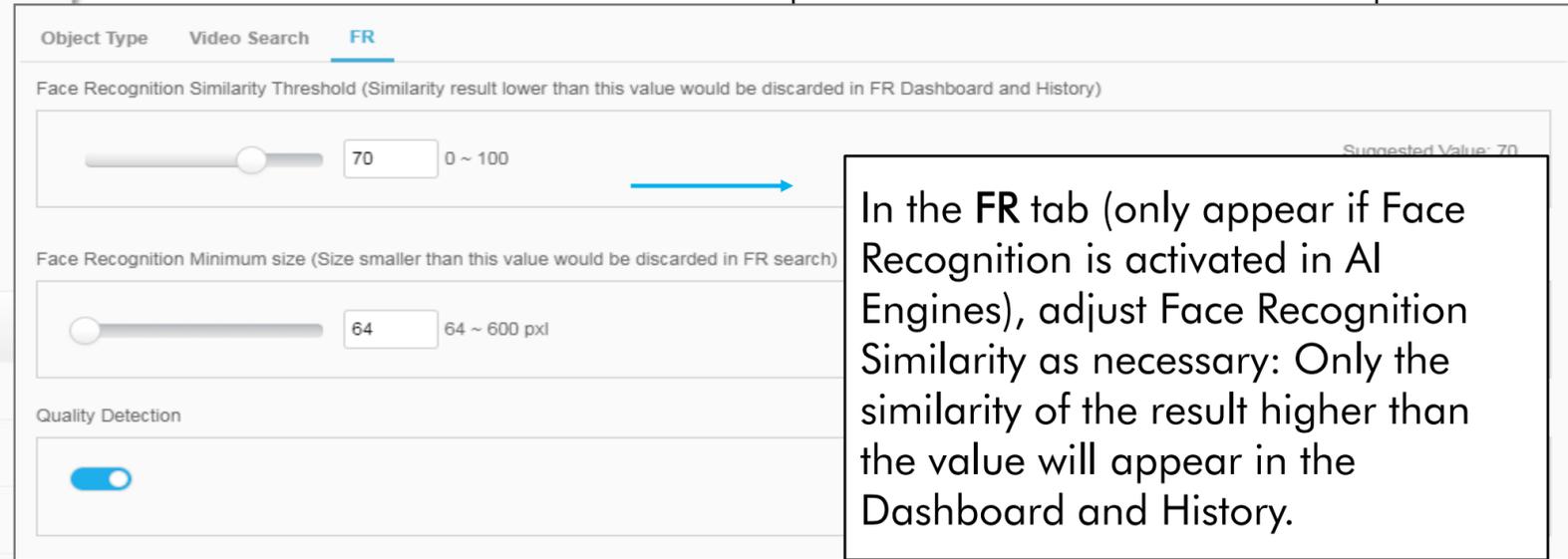
# CONFIGURE CAMERA PROFILE



In the **Object Type** tab, make sure to select the object types to detect. Adjust Confidence and Min/Max pixel size per object to get more/fewer detections if necessary (lower Confidence + smaller Min size = more detection, may increase false detection rate)



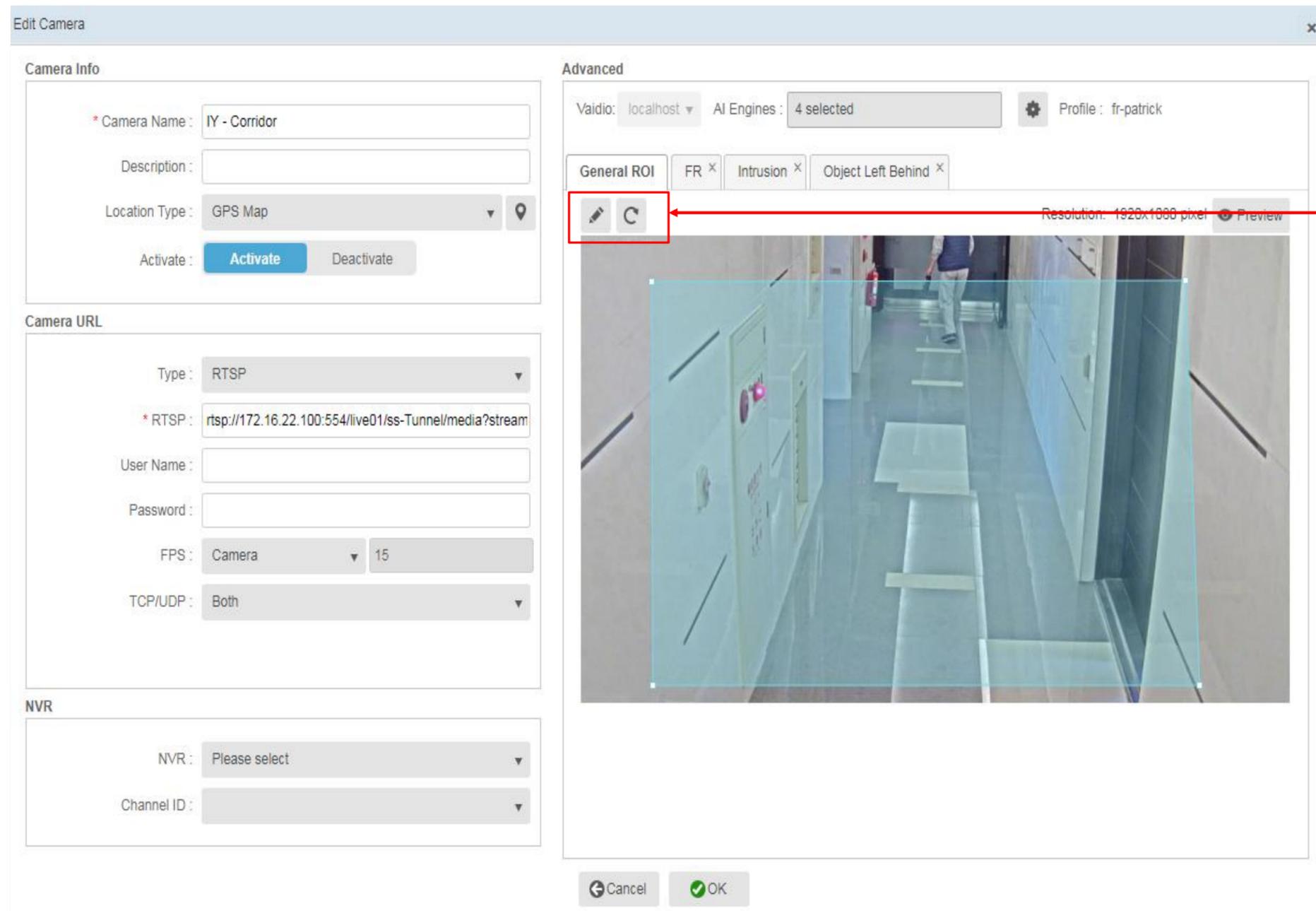
In the **Video Search** tab, adjust Motion Detection Sensitivity (MDS) as necessary: Higher MDS value = Lower sensitivity level = higher certainty + fewer false positive (Increase MDS value to 0.3-0.5 to decrease false positive)



In the **FR** tab (only appear if Face Recognition is activated in AI Engines), adjust Face Recognition Similarity as necessary: Only the similarity of the result higher than the value will appear in the Dashboard and History.

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# DEFINE GENERAL REGION OF INTEREST



Make sure to exclude all irrelevant areas in the **General ROI** (region of interest); i.e., the camera's effective FOV, to avoid wasting computing resources and eliminate false alarms in those areas.

Use the Pencil icon in the ROI tab to draw the area of interest for the entire camera.

**Note:** the **General ROI** applies to **ALL analytics** for this camera. The ROIs of other analytics (e.g., Intrusion, FR) should be within the General ROI. No objects outside of the General ROI will be detected, even if it is in the ROI of other AI engines and that ROI is outside of the General ROI.

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# ACTIVATE AI ENGINE(S) & ROI

Advanced

Vaidio: localhost AI Engines: 3 selected Profile: fr-patrick

General ROI Intrusion x People Counting x

- Face Recognition
- Identity Recognition
- Illegal Parking
- Intrusion
- License Plate Recognition
- Loitering
- Make Model Recognition
- Object Left Behind
- People Counting
- Person Wrong Direction
- Person Fall
- PPE
- Vehicle Counting
- Vehicle Wrong Direction

No.	Draw Type	Name
1	ROI	Person Detection
2	ROI	Door Open

Select/Activate one or multiple AI Engines (analytic functions) – Video Search is always included by default.

General ROI Intrusion x People Counting x

Resolution: 1920x1080

Draw the Region of Interest (ROI) of Intrusion in the camera preview. The ROI can have any irregular shape.

No.	Draw Type	Name
1	ROI	Advance PPE test - with mask

General ROI Intrusion x People Counting x

Resolution: 1920x1080 pixel

Draw the Counting Line of People Counting in the camera preview scene and define the in/out direction.

No.	Line Name
1	into office

Intrusion

Object Type

Person > 0 x

Sensitivity

Detect 5 (1~20) scene(s) with defined object every 10 (1~30) second(s)

Skip Duplicate Event

Cancel OK

Define the target object type to detect. The user can adjust the sensitivity if needed.

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# CAMERA HEALTH MANAGEMENT

Video Camera icon under **Abnormal Check** indicates which camera currently has an abnormal status

Red alert icon indicates camera abnormality

No.	Camera Name	Resolution	NVR Name	Channel ID	AI Engines	AI Model Enabled	Map	Status	Abnormal Check	Actions
1	02 IY Corridor	1920x1080			FR/ Intrusion/ PPE	General-PRO-2.2		Connected		<input checked="" type="checkbox"/>
		1920x1080			FR/ Intrusion/ PPE	General-PRO-2.2		Not in use		<input type="checkbox"/>
		1920x1080			General-PRO-2.2	General-PRO-2.2		Connected		<input checked="" type="checkbox"/>
4	Abbey Road Studios in ...	1920x1080			LPR	General-PRO-2.2		Not in use		<input type="checkbox"/>
5	External DW	1920x1080			LPR	General-PRO-				
6	External DW 2	1920x1080			FR	General-PRO-				
7	External DW 3	2048x1536				General-PRO-				
8	Ganz Thermal Cam	640x480			Intrusion/ Vehicle Wrong Direct...	General-PRO-				
9	New York Times Square	1280x720			Intrusion/ Vehicle Wrong Direct...	General-PRO-				
10	Patrick-test	3840x2160			FR	General-PRO-				

Abnormal camera status (poor resolution, obstructed view, etc.)

Normal camera view

Set as Normal

Set this camera view as normal to avoid future alert

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# CAMERA HEALTH MANAGEMENT (CONT.)

The interface displays a table of camera status with columns for Map, Status, Abnormal Check, and Actions. A blue box highlights the calendar icon in the 'Abnormal Check' column. A callout box points to this icon with the text: "Click on Timetable icon to schedule when to check the camera status".

The 'Blur/Blockage/Reposition Schedule' window shows a calendar grid for the week of 4/22 to 5/1. A legend indicates that green squares represent 'Abnormal Check' and white squares represent 'None'. The schedule shows abnormal checks on Sunday, Tuesday, Thursday, and Saturday.

The 'Camera History' window shows a calendar grid for the same period. A legend indicates that green squares represent 'Normal' and red squares represent 'Abnormal'. The history shows several abnormal events, primarily on Friday (5/7) and Saturday (5/8).

A callout box points to the clock icon in the 'Actions' column of the camera status table with the text: "Click on Clock icon to view the camera status history (up to 30 days, 24h/day)".

The 'Abnormal Camera' window shows a snapshot of the camera's field of view (FOV) at 2021-5-17 21:01:37. The current view is 'Disconnected', and the normal view shows a hallway.

A callout box points to a red rectangle in the 'Camera History' calendar with the text: "Click on each rectangle to view a snapshot of the camera FOV at that hour".

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# ADD GPS TO THE CAMERA

Add Camera

Camera Info

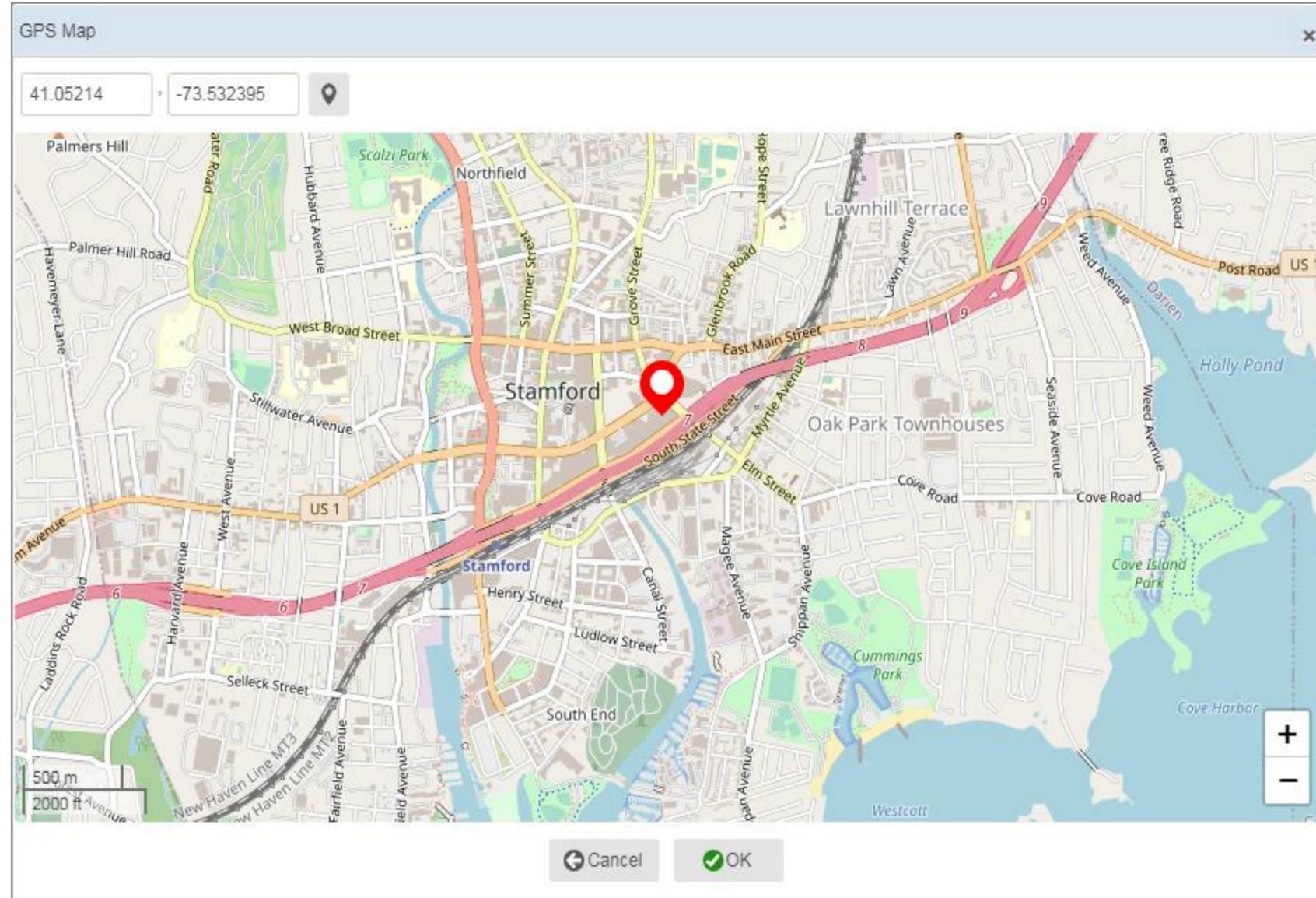
• Camera Name :

Description :

Location Type : **GPS Map**

Activate :

In Add Camera, select **GPS Map** as the Location Type, and click the location icon to pin the exact coordinate of the camera on the map

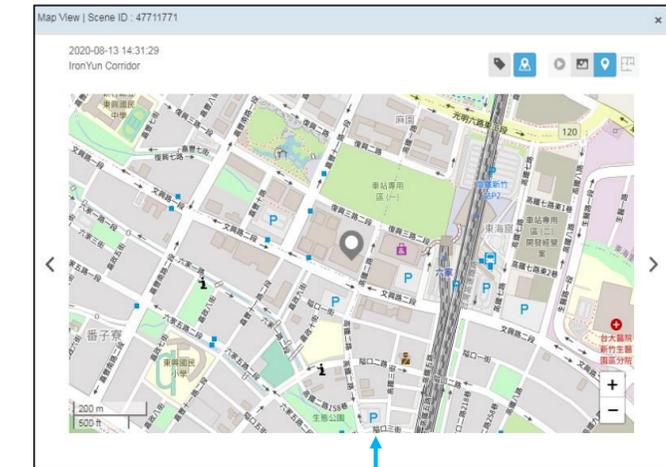


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# RESULTS ON GPS MAP

Click the location icon; the search result will show its exact location on map with the number of the detected events.

The screenshot shows the Vaidio search results page. At the top, there's a search bar and navigation icons. Below that, a map displays the search area with red location markers. A list of search results is shown on the right, including timestamps and scene names like 'Zhudong 1st Road' and 'IronYun Corridor'. A blue arrow points from the text above to a location icon in the top right corner of the interface.



This screenshot shows the 'Original Snapshot' view for a specific event. It displays a video frame of a person walking in a hallway, with a red bounding box around the person. Below the video, there's a table of object attributes:

Object Type:	Person(1.0)	Age:	20-29	Make:	-	PPE:	(1.0)
Width:	404	Gender:	Female	Model:	-		(1.0)
Height:	948	FR List:	Not in list	LPR List:	-		(1.0)
Color:	White	Name:	-	License Plate:	-		

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# ADD INDOOR MAP

**Location**

\* Location Name:  
IronYun Zhubei Office

GPS Coordinates:  
24.807207 121.036999

Description:

**Floor Plan**

Upload Floor Plan

\* Floor Plan Name:  
16F-3

Cancel OK

If a camera is an indoor camera, to define its location in the building, go to **Indoor Map** in Camera tab to add an indoor map to the database.



Input location name and setup the GPS map.



**Upload Floor Plan.** The users can upload multiple floor plans to the same location (e.g., different floor plans of one building)

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# ADD INDOOR MAP TO THE CAMERA

In Add Camera, select **Indoor Map** as the Location Type, and click the map icon to choose the Indoor Map.

Add Camera

Camera Info

\* Camera Name :

Description :

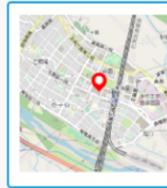
Location Type : Indoor Map 

Activate :

Indoor Map

Location Floor Plan Cameras

 IronYun Zhubei Off...  
Floor Plan: 1



Indoor Map

Location Floor Plan Cameras

Floor Plan: 16F-3

No.	Camera Name
1	IronYun Right Front Door



Restroom Elevator Elevator Restroom

Click the location icon to locate the camera in the floor plan.

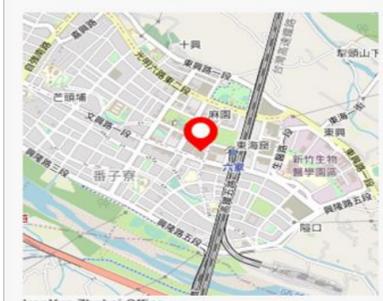
- Hover over the camera icon, and click to rotate the direction of the camera icon.

< Back OK



Indoor Map

Location Floor Plan Cameras

 IronYun Zhubei Office  
Lat: 24.807226 Long:121.03691

 16F-3

[Return to Camera Management](#)

# RESULT ON INDOOR MAP

Click the map icon and select the floor plan. The search result will show the exact location of the detected object/event on the floor plan with the number of detected events.

The screenshot displays the VAIDIO search interface. At the top, the search criteria are set to 'Person' with a search time range from 2020-07-11 09:00:00 to 2020-08-13 14:37:43. The main area shows a list of search results with video thumbnails and timestamps. A red circle highlights a 'Person' detection in a hallway. To the left, an indoor map view shows the floor plan of the 'IronYun Zhubei Office 16F-3' with red markers indicating the location of the detected person. A blue arrow points from the text box to the map icon in the top right of the search results list. Another blue arrow points from the map icon in the top right of the search results list to the indoor map view. A third blue arrow points from the map icon in the top right of the indoor map view to the 'Original Snapshot' window. The 'Original Snapshot' window shows a video frame of the person in the hallway, with a red bounding box around the person and a green bounding box around the face. The person's details are listed below the snapshot:

Object Type:	Person(1.0)	Age:	20-29	Make:	-	PPE:	(1.0)
Width:	404	Gender:	Female	Model:	-		(1.0)
Height:	948	FR List:	Not in list	LPR List:	-		(1.0)
Color:	White	Name:	-	License Plate:	-		

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# NVR MANAGEMENT

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- [Add NVR](#)
- [Internal Video Recording](#)

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# ADD NVR

The screenshot shows the 'Add NVR' dialog box in the Vaidio interface. The dialog contains the following fields and options:

- NVR Name :** A text input field.
- IP/ Domain Name :** A text input field followed by a dropdown arrow. A note below it says: "For example, IP Address xxx.xxx.xxx.xxx/ Domain Name: xxx.xxx.com".
- User Name :** A text input field.
- Password :** A text input field.
- NVR Brand :** A dropdown menu with 'Please select' as the current selection. The dropdown list is open, showing the following options: Please select, Dahua, Digiever, DigitalWatchdog, Exacq, Genetec, Hanwha, Hikvision, Kedacom, Milestone, NUJO, Nx, QNAP, Uniview, and VideoInsight.
- Check Connection :** A button with a checkmark icon.
- OK :** A button with a checkmark icon.

In the **NVR tab**, go to Add NVR. Input the requested information and select the NVR Brand under the list.

- Reason to connect NVR to Vaidio:
- Have video playback for detected events
  - Retrieve and apply analytics to recorded videos in NVR

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# INTERNAL VIDEO RECORDING

**License Management**

Model Name	VSA-510
Serial Number	1234567890
Analytic Resource	32
Footage	1
User	32
Status	Active
Expiry Date	-
Warranty Date	2021-12-15

Please take the following steps to Renew license if license expired or license extension needed.

**Step 1:** Click [Export] to download the system information file, and send the file to customer support for license request.

**Step 2:** Click [Renew] to upload and activate the new license key received from customer support.

**AI Engines**

Age & Gender	32
Fire	32
FR	8
Identity Recognition	8
Intrusion	16
LPR	8 (Valid 2)
Country	TWN
LPR Type	AI LPR
Make Model Recognition	32
Object Left Behind	8
People Counting	4
PPE	32
Vehicle Counting	4
Video Search	32
Weapon	32

**Recorder**

Internal NVR	6
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Starting from version 5.2.0, Vaidio user has the option to record video within the Vaidio server. User can check the number of channels in System > License

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# INTERNAL VIDEO RECORDING (CONT.)

VAIDIO > NVR

+ Add NVR

NVR Name	NVR IP	NVR Brand	
Default	172.16.15.113:80	Internal	<input type="checkbox"/>

Internal NVR is the default in the NVR page, and cannot be edited or deleted. User can add/delete external NVR(s) to Vaidio as usual.

VAIDIO > File

Retrieve Video

NVR

- \* Select NVR : Internal
- \* Channel ID : (Y Corridor) 2

Configuration

- \* Select AI Model : 1 selected
- Select AI Engines : Select AI Engines
- \* Profile : Default

Set Retrieve Time UTC +00:00

- \* Start To End Time : 2021-02-23 07:06 ~ 2021-02-23 20:16

Description :

GPS Coordinates : Latitude Longitude

Transcoding

Cancel Submit

To process old recorded videos, user can select File > Retrieve Video > Internal NVR and Channel ID

Internal video file supports audio.

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# INTERNAL VIDEO RECORDING (CONT.)

Add Camera

**Camera Info**

\* Camera Name :

Cluster : localhost ▼

Location Type : None ▼

Description :

**Camera URL**

Type: Camera IP Address/Domain Name ▼

\* IP/Domain Name:  :  ^  
v

User Name:

Password:

Get RTSP ▼

FPS: Camera ▼

TCP/UDP: Both ▼

**NVR**

NVR: Internal ▼

Channel ID:  ▼

Internal NVR is only allowed for camera with IP Address and/or RTSP

To enable video playback and record video for a particular camera in Vaidio, user can select Internal under NVR in the camera configuration.

User can turn on internal video recording for individual cameras, i.e., not all cameras connected to Vaidio must record video in Vaidio.

Delete recorded video via API

- ❑ Advanced users may delete the recorded video segment from the internal recorder through the database.

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# FILE MANAGEMENT

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- [Upload Video](#)
- [Retrieve Video](#)

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# UPLOAD VIDEO

The screenshot displays the VAIDIO 'File' management interface. At the top, there are search filters for 'Interval Start Date', 'File Name', and 'Video Source'. Below this is a table of existing video uploads with columns for ID, Type, and File Name. A 'Retrieve Video' and 'Upload Video' button are visible. The 'Upload Video' modal is open, showing a 'Select File' button and a table for configuring the upload. The table includes columns for File, Size, Progress, Interval Start Time (with date and time pickers), Video Source, Description, Profile (set to Default), and File Type (with checkboxes for FR, LPR, and PPE). A 'Profile' window is also open, showing a list of object types (Ball, Baseball\_bat, Bear, Bicycle, Boat, Bus, Car, Cat) with confidence sliders and suggested values. A 'GPS Coordinates' section is partially visible at the bottom right.

**Select video file from the local device**

**Define start date & time to match the system timeline for indexing**

**Check Profile to activate the correct object types to be detected.**

**Activate FR/LPR/PPE if needed (Object Detection / Video Search is enabled by default.)**

**Support file formats: H.264, MJPEG, MPEG1, MPEG2, MPEG4, VC1, VP8, VP9**

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# RETRIEVE VIDEO

VAIDIO > File

Interval Start Date :  File Name  Video Source

ID	Type	File Name
78	Uploade...	11_6_2020 8_01_43 AM (U...
77	Uploade...	11_6_2020 8_01_43 AM (U...
76	Uploade...	11_6_2020 8_01_43 AM (U...
74	Uploade...	11_4_2020 8_16_52 AM (U...

Select the preconfigured NVR and channel to retrieve and download the correct video file

Retrieve Video

**NVR**

\* Select NVR :

\* Channel ID :

**Set File Type and Configuration Profile**

File Type :  FR  LPR  PPE

\* Profile :  Default

**Set Retrieve Time UTC +00:00**

\* Start To End Time :   ~

Description :

GPS Coordinates :  ,

Transcoding

Profile

Profile List AI Model : 1 selected Default

Object Type	Confidence[0.1 ~ 1.0]	Suggested Value	Minimum	Maximum	pxt
<input type="checkbox"/> Ball	0.60	0.60	40	--	
<input type="checkbox"/> Baseball_bat	0.40	0.40	40	--	
<input type="checkbox"/> Bear	0.55	0.55	40	--	
<input checked="" type="checkbox"/> Bicycle	0.55	0.55	40	--	
<input type="checkbox"/> Boat	0.50	0.50	40	--	
<input checked="" type="checkbox"/> Bus	0.55	0.55	40	--	
<input checked="" type="checkbox"/> Car	0.55	0.55	40	--	
<input type="checkbox"/> Cat					
<input type="checkbox"/> Cell_phone					

- Check Profile to activate the correct object types to be detected.
- Activate FR/LPR/PPE if needed (Object Detection / Video Search is enabled by default.)

[Return to File Management](#)

# USER MANAGEMENT

---

- [Types of User Accounts](#)
- [Add User](#)
- [Add User Group & Permission Control](#)
- [AI Engine Control](#)

[Return to Table of Contents](#)

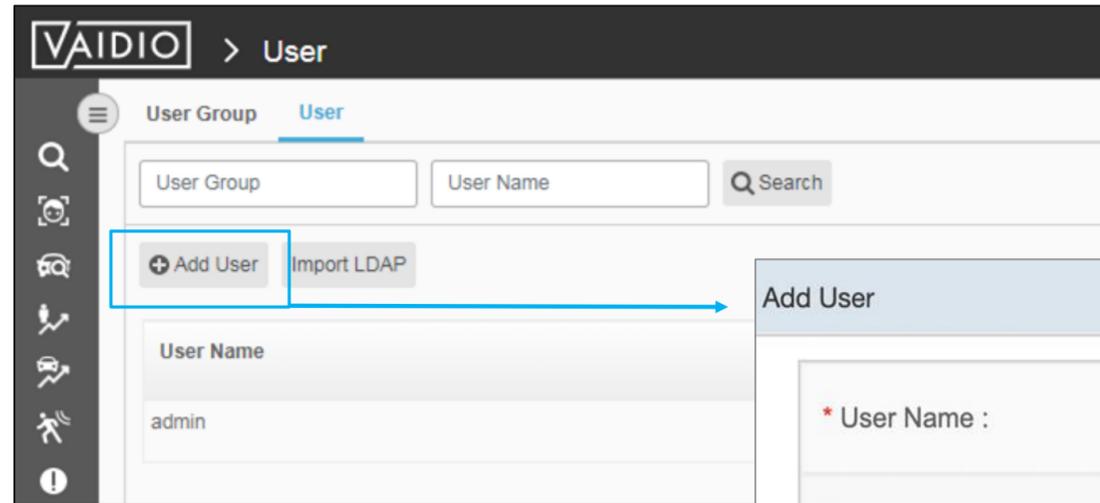
# TYPES OF USER ACCOUNTS

Capability	Permission		
	Admin	Co-Admin	General User
Adding/deleting users	Manage	Manage (except Admin)	None
User's role and group	Manage	Manage	None
User's password and email	Manage	Manage (except Admin)	Manage its own only
Camera control	Manage	Manage	Based on group permission
Video source control	Manage	Manage	Based on group permission
AI engines control	Manage	Manage	Based on group permission
Configuration control	Manage	Manage	Based on group permission

**Note:** Having Co-Admins makes it easier to manage the platform and track user activities. Instead of relying on one admin account, Admin can create multiple Co-Admin accounts to manage the system and other user groups.

[Return to User Management](#)

# ADD USER



Add User

* User Name :	<input type="text" value="Sandy Peng"/>
* Password :	<input type="password" value="....."/>
* Confirm Password :	<input type="password" value="....."/>
* Email :	<input type="text" value="sandy.peng@ironyun.com"/>
Role :	<input checked="" type="radio"/> User <input type="radio"/> Admin
User Group :	<input type="text"/>

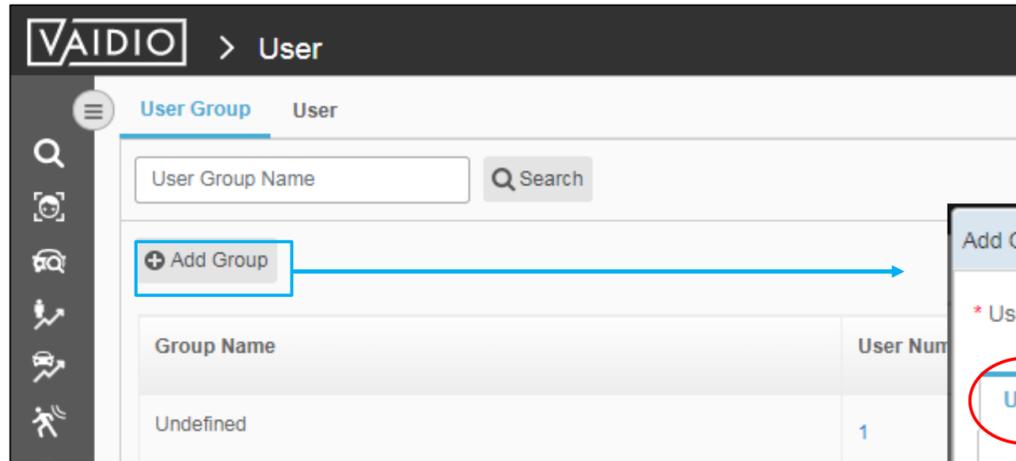
In the **User tab**, go to Add User, input the user info, and assign the password for the user. Select the User Group for the user or assign later in User Group Setting. (Default: Undefined)

Note: User accounts in the Undefined group do not have access to any function and cannot log into Vaidio.

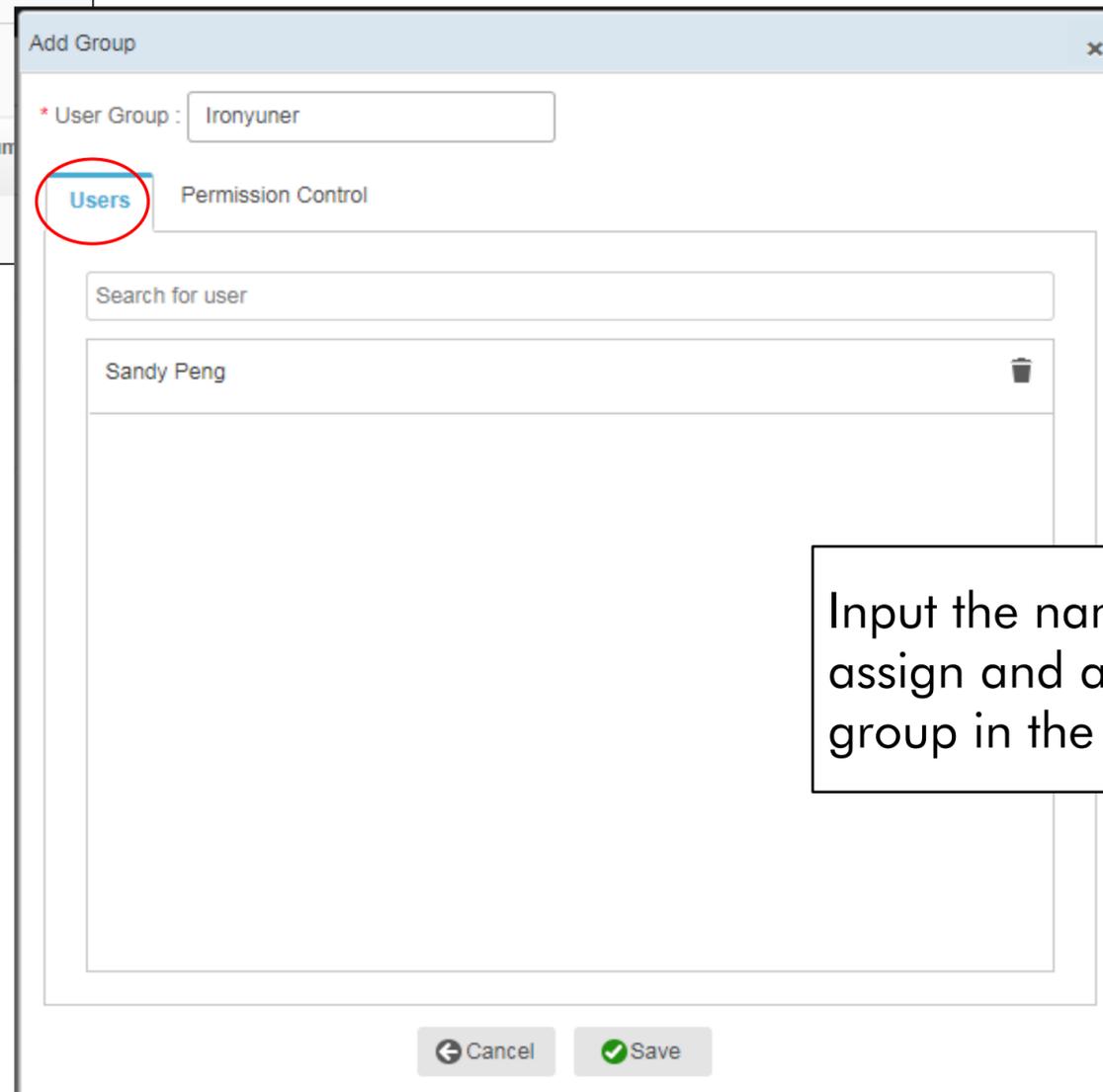
To add **Co-Admin**, select Admin.

[Return to User Management](#)

# ADD USER GROUP



In the **User Group** tab, go to Add Group.

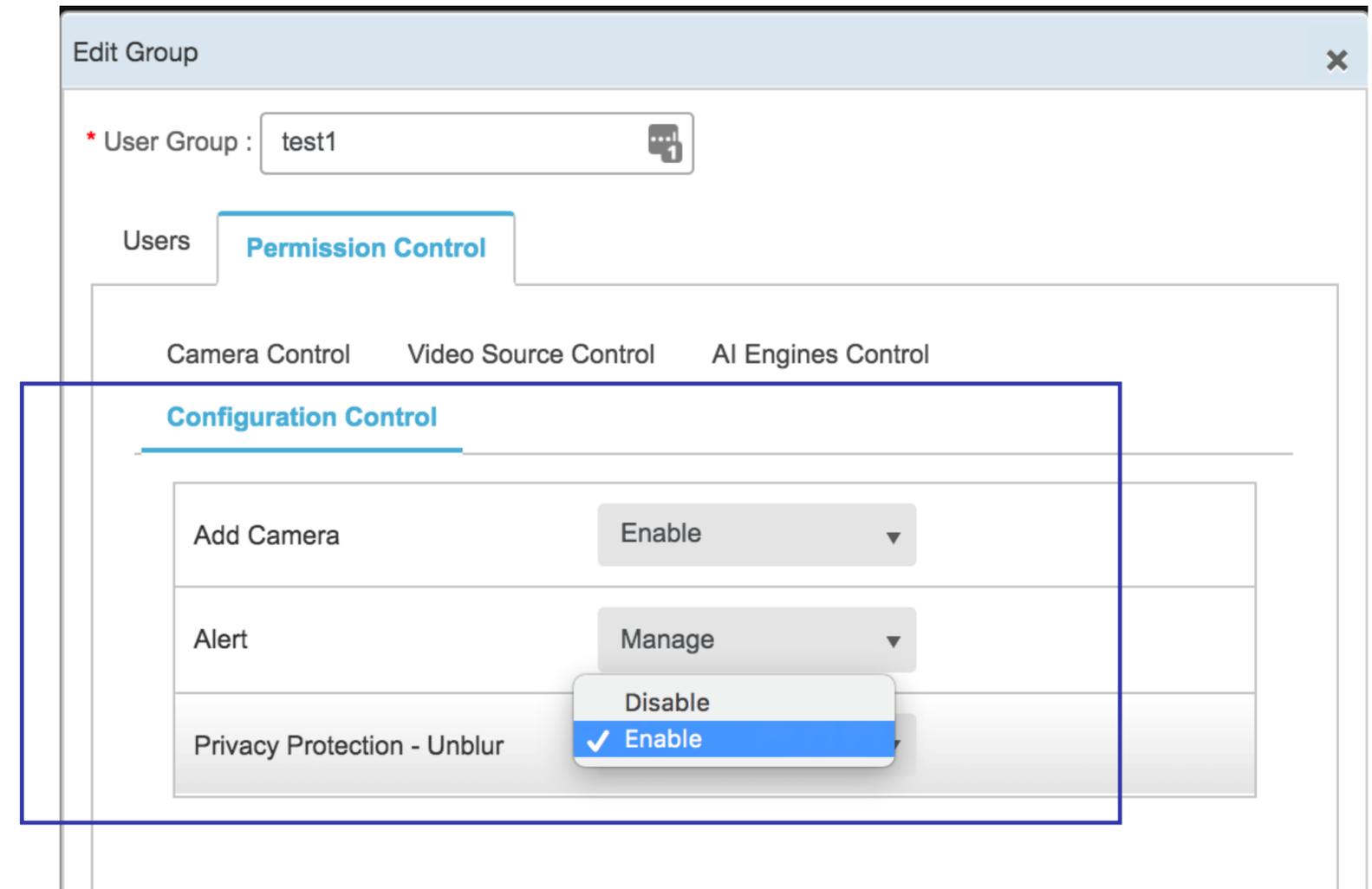


Input the name of the User Group, assign and add the users to the group in the **User** tab.

[Return to User Management](#)

# PERMISSION CONTROL

- ❑ **Camera control:** select the cameras that the user group can access
- ❑ **Video source control:** select the video source from which the user group can upload videos
- ❑ **AI engine control**
- ❑ **Configuration control:** select whether the user group can **Add new cameras, Manage alerts, and/or Unblur faces/people** if System > Setting > Privacy Protection is ON



[Return to User Management](#)

# PERMISSION CONTROL (CONT.)

For **Camera Control**, start by typing the name of the camera to assign permission into the Search bar

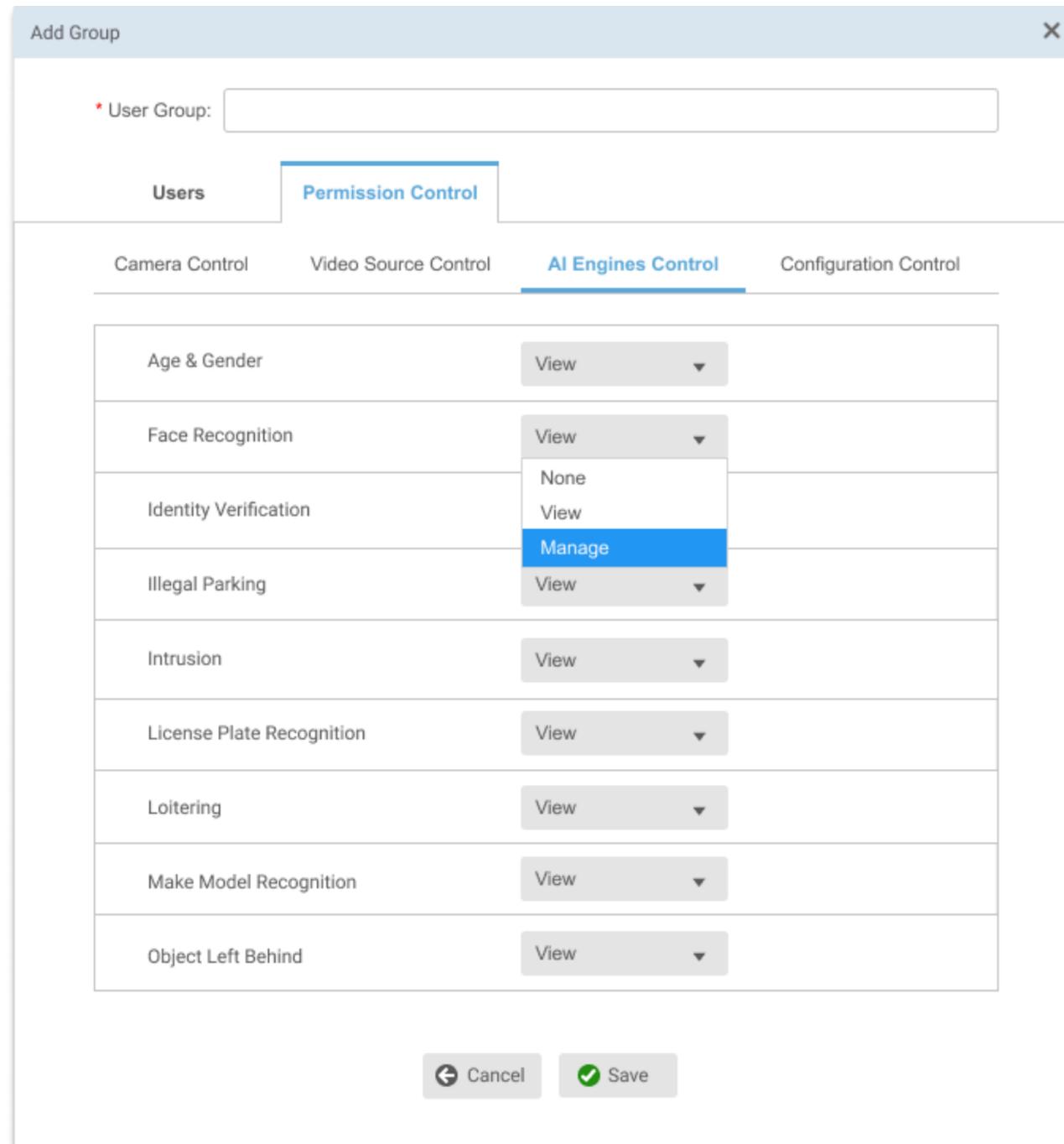
For **Permission Control**, amin may add [none] permission and more restrictions to camera management

**Video Sources** come from the setting of the upload file.

In the **Permission** tab, search and select **Cameras** and **Video Sources** for this group of user to access, then assign the level of the authority (View or Manage) to each source and **AI Engines**.

[Return to User Management](#)

# AI ENGINE CONTROL



Add Group ✕  
 \* User Group:   
 Users | **Permission Control**  
 Camera Control | Video Source Control | **AI Engines Control** | Configuration Control

Age & Gender	View
Face Recognition	View
Identity Verification	None View <b>Manage</b>
Illegal Parking	View
Intrusion	View
License Plate Recognition	View
Loitering	View
Make Model Recognition	View
Object Left Behind	View

- ❑ Permission: None, View, Manage
- ❑ None: user group with “None” permission cannot see the **tabs** of these engines in the left side menu and cannot see the engine configuration tabs in Camera configuration
- ❑ Engines with None permission: FR, LPR, IDV (for privacy protection)

[Return to Camera Management](#)

# ALERT SETUP

---

- [Add New Alert](#)
- [Alert Types](#)
- [Trigger Actions](#)
- [Dashboard – Real-time Alert](#)
- [Alert History](#)

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# ADD NEW ALERT

Select the **Alert Type** and corresponding rules with the specific object type and scenarios to be detected.

Include:

- List for FR/LPR
- ROIs for ID
- Denied or Granted for IDV (Identity Verification)
- Occupancy for PVC

Select the **Trigger Action**. The alert can be shown in Vaidio alert dashboard, Vaidio app notification, 3<sup>rd</sup>-party VMS system or email. The alert can also be sent via HTTP push to other devices, e.g., I/O device for access control.

Select the time period to activate the alert.

[Return to Alert Setup](#)

# ALERT TYPE

Types of Alerts:

1. Camera Abnormal

2. **Video Search**: allow all combinations of object types + attribute (color, quantity, etc.). The entire FOV is the region of interest (ROI)

- Can set alert for crowding using *person > n*

3. **Intrusion**: similar to Video Search with higher fps, more ROIs, exclusion zone

4. **FR & LPR**: set alert for any list and/or Not in list (for unidentified person/vehicle)

5. Identity Verification

6. People/Vehicle Counting

7. Person/Vehicle Wrong Direction

8. Person Falling

9. Loitering & Illegal Parking

10. Object Left Behind

11. **Speeding**: set in **Video Search** alert type for vehicle moving above/below/at average speed of traffic

- For alert types 3-11, must enable AI engines for the camera (**Camera > Edit > Advanced**) before adding new alert (**Alert > Alert Rule > New Alert**)
- For alert type 11, must enable **Vehicle Counting** for the camera
- For alert types 3-7 and 9-11: must configure the region of interest (ROI) (types 3, 4, 5, 9, 10) or line with direction (types 6, 7, 11) of each AI engine independently (**Camera > Edit > Advanced**) before adding a new alert

[Return to Alert Setup](#)

# TRIGGER ACTIONS

## Types of Trigger Actions

### 1. Email Notification:

- Can add up to 3 emails
- Add email server at System > Notification > Email to receive notification (e.g., for Gmail server, use smtp.gmail.com, port 465, secure connection SSL)

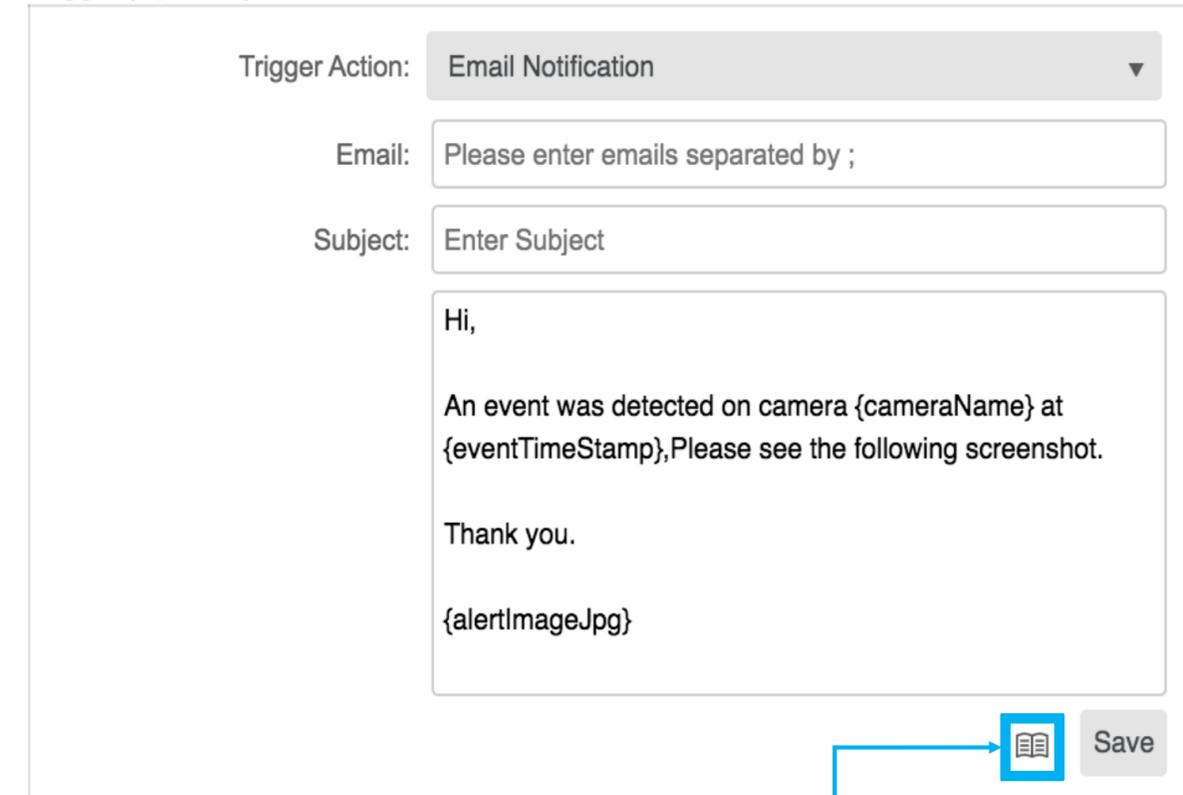
### 2. HTTP: to connect to VMS (e.g., Nx VMS) and other systems (e.g., gate closing)

### 3. Alerts in VMS: Axis; BTX Bridge to Milestone XProtect; Digital Watchdog; Genetec; Immix; Luxriot; Network Optix; Ocularis; Salient

### 5. APP Notification:

- download Vaidio app (available for iPhone and Android)
- add IP address of Vaidio unit in Server Address
- Connection type: HTTP

#### Trigger (Optional)



Click to view metadata tags available to add to email notification or sent in HTTP URL or HTTP content.

[Return to Alert Setup](#)

# TRIGGER ACTION (CONT.)

The example of trigger actions:

Supported parameters for HTTP trigger:

- ❑ [cameraID]
- ❑ [cameraName]
- ❑ [startTime]
- ❑ [endTime]
- ❑ [eventTimeStamp]
- ❑ [licensePlateNumber]
- ❑ [sceneID]

Email Notification: supports ROI and Metadata in source images:

- ❑ Select as the Trigger Action, then add {alertImageMetadataJpg} in the description.
- ❑ The metadata includes Analytics Type, Alert Name, and Scene Detail, such as the detected object type, license plate



Trigger (Optional)

Trigger Action: Email Notification

Email: Enter email

Subject: Enter Subject

Hi,

An event was detected on camera {cameraName} at {eventTimeStamp}, Please see the following screenshot.

Thank you.

{alertImageMetadataJpg}

+ Add

etc.



[Return to Alert Setup](#)

## TRIGGER ACTION (CONT.)

- Examples of trigger action via HTTP:
  - Access control based on Face Recognition of employees:  
<https://youtu.be/ILQ6i0RUK6M>
  - Access control based on PPE (personal protective equipment) detection:  
<https://youtu.be/LJZmJS7DbQ>
  - Example I/O device: 4-port device to control 4 doors  
<https://www.axis.com/products/axis-p8221>

[Return to Alert Setup](#)

# ALERT DASHBOARD

Show the exact location of the detected event on GPS map.

Alert List

Alert Name	Alert Type	Camera Name
<input checked="" type="checkbox"/> Person	Video Search	test2, Taipei Street Demo, Zhudong 1st Road, Zhud...
<input checked="" type="checkbox"/> Yellow Car	Video Search	Taipei Street Demo, Zhudong 1st Road, Zhudong 2...
<input type="checkbox"/> Illegal Parking	Illegal Parking	Zhudong 1st Road, Zhudong 2nd Road
<input type="checkbox"/> Taipei Street Intrusion	Intrusion	Taipei Street Demo
<input checked="" type="checkbox"/> Fire	Video Search	Fire Demo
<input checked="" type="checkbox"/> Smoke	Video Search	Smoke Demo

2020-08-13 10:20:47  
**Person**  
Video Search  
Taipei Street Demo

2020-08-13 10:20:40  
**Person**  
Video Search  
Taipei Street Demo

2020-08-13 10:20:39  
**Yellow Car**  
Video Search  
Zhudong 1st Road

2020-08-13 10:20:46  
**Yellow Car**  
Video Search  
Zhudong 1st Road

Select specific or multiple alert rules to show on the dashboard.

Result on the indoor map

Restroom  
Elevator  
Restroom

2020-11-12 14:28:37  
**People Intrusion**  
Intrusion  
IY Corridor

2020-11-12 14:28:36  
**People Intrusion**  
Intrusion  
IY Corridor

2020-11-12 14:28:36  
**People Intrusion**  
Intrusion  
IY Corridor

2020-11-12 14:28:35  
**People Intrusion**  
Intrusion  
IY Corridor

2020-11-12 14:28:35  
**People Intrusion**  
Intrusion  
IY Corridor

[Return to Alert Setup](#)

# ALERT HISTORY

The screenshot shows the Vaidio Alert History interface. At the top, there are navigation tabs for Dashboard, History, and Alert Rule. Below this is a search bar with a date range from 2020-11-12 00:00 to 2020-11-12 23:59 and a search icon. The main area is a map showing a street grid with a red pin indicating an alert location. A callout box over the map shows a video thumbnail and the text: "2020-11-12 14:29:23 People Intrusion Intrusion IY Corridor". To the right of the map is a list of alert events, each with a video thumbnail, a timestamp, the event name "People Intrusion", and a checkbox. A callout box points to the top of this list with the text: "Check to delete the history event if needed". Another callout box points to a pin icon on the map with the text: "Click the Pin to display on the map". A third callout box points to the date and time filters with the text: "Select the alert rule and adjust the time period to search for an event".

[Return to Alert Setup](#)

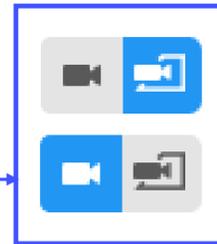
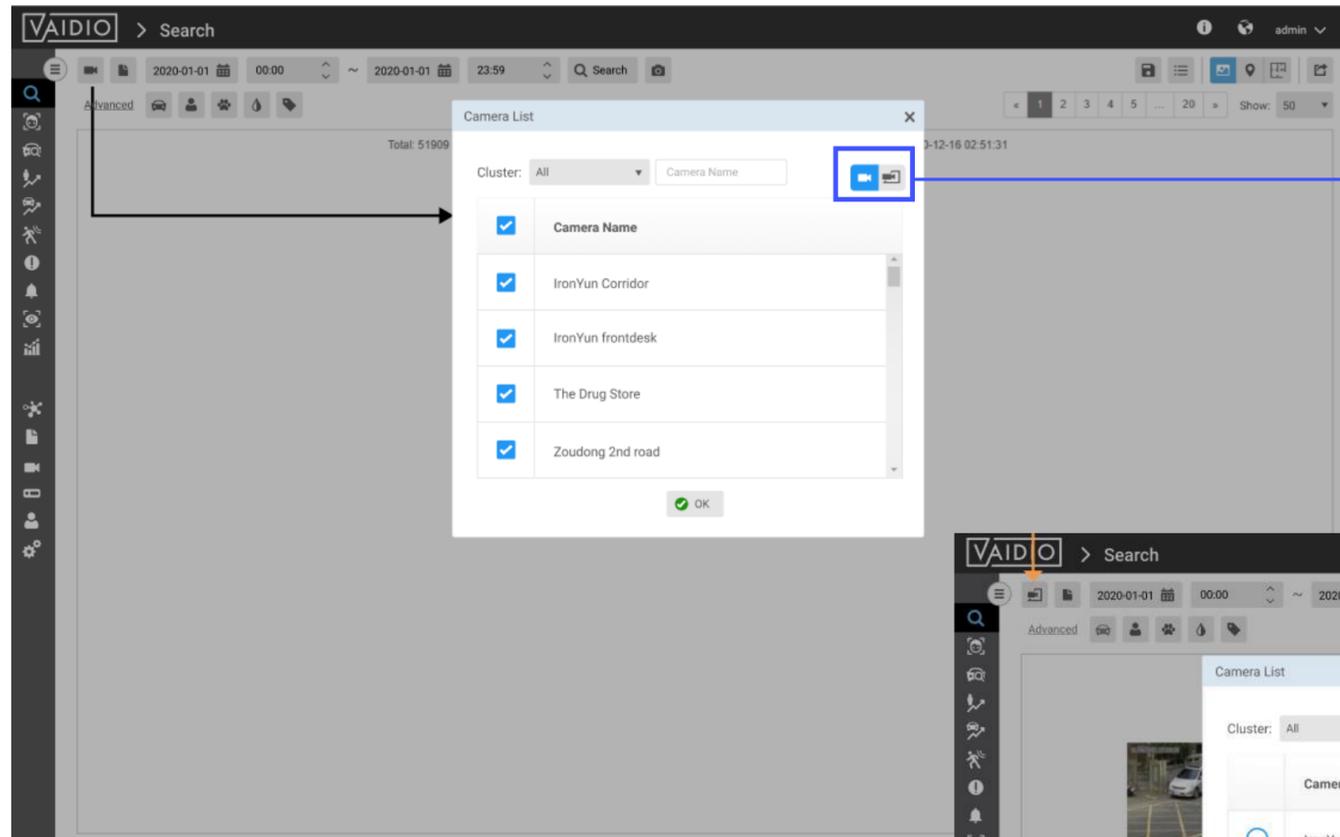
# VIDEO SEARCH

---

- [Dashboard](#)

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# VIDEO SEARCH DASHBOARD



Click on Camera icon to select/deselect cameras to search; click on File icon to search in uploaded files

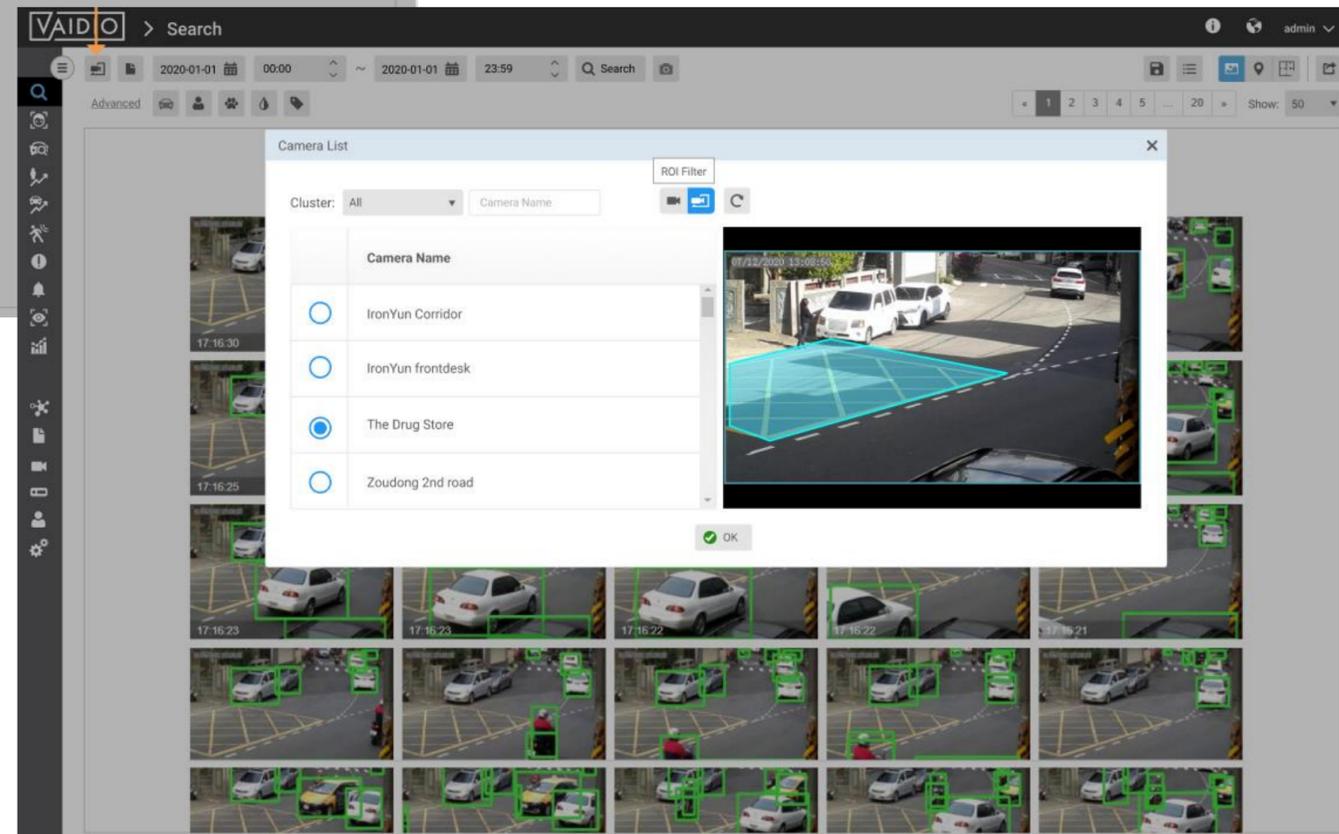
- Default: Search through all cameras (live streams)

Adjust the time period to do search.

- To search from files, the uploaded day/time of the selected file should be within the selected time period
- Make sure that the correct time zone has been set in System > Time and synced with the camera/NVR (if connected)

Click on icons of object category to search for certain object types & their attributes.

The categories are (from left): Vehicle, People, Animal, and All Other Objects (e.g., backpack, cell phone)



Click on the thumbnail to see the detail information of the detected event

[Return to Video Search](#)

# SYSTEM CONFIGURATION

---

- [Time](#)
- [Storage](#)
- [License](#)
- [Setting](#)
- [AI Model](#)
- [Utility](#)

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# TIME

VAIDIO > System admin

General **Time** Storage Mail LD... Log Audit Trail License Setting AI Model Utility Restart

Time Zone :  ▼

Automatically adjust to daylight saving time.

Apply

Time zone selection

[Return to System Configuration](#)

# STORAGE

**IDIO** > System

General Time **Storage** Mail LDAP Log Audit Trail License

**System Storage :**  
Used Space / Total Space : 127.12GB / 203.01GB  
Total Usage :  62.62% Used

**Metadata :**  
Total Number of Objects : 28171659  
Retention Date : 2022-02-06 02:00:00 ~ 2022-02-13 03:29:07  
Used Space / Total Space : 1387.73GB / 5543.44GB  
Total Usage :  25.03% Used

**Recorder Data :**  
Retention Date : 2022-02-06 02:00:32 ~ 2022-02-13 03:28:40  
Used Space / Total Space : 530.12GB / 5543.44GB  
Total Usage :  9.56% Used

**Storage Configuration :**  
The system automatically removes older data once storage usage exceeds 80%.

**System Storage and Metadata Retention Time:**

**System Storage and Metadata Retention Period:** 30  days

**Recorder Data Retention Time:**

**Recorder Data Retention Period:** 30  days

Apply

## Data retention time:

- Toggle OFF: data will be saved as long as storage has not reached 80% capacity. Once the 80% limit has been reached, the oldest data are removed first.
- Toggle ON:
  - If the retention time is reached before the 80% limit, data older than the retention time are removed
  - If the 80% limit is reached before the retention time, oldest data are removed until the usage is below 80%

[Return to System Configuration](#)

# LICENSE

General Time Storage Mail LDAP Log Audit Trail **License** Setting AI Model Utility Restart

### License Management

Model Name	VSB-550
Serial Number	_9CCBSG2_CN779216B700Q5_
Analytic Resource	[REDACTED]
Footage	1
User	128
Status	Active
Expiry Date	2021-12-30
Warranty Date	2021-12-30

Please take the following steps to Renew license if license expired or license extension needed.

**Step 1:** Click [Export] to download the system information file, and send the file to customer support for license request.

**Step 2:** Click [Renew] to upload and activate the new license key received from customer support.

### AI Engines

Age & Gender	4
Fire	8
FR	4 (Valid)
Identity Verification	4
Intrusion	26
LPR	16 (Valid 1)
Country	TWN
LPR Type	AI LPR
Make Model Recognition	16
Object Left Behind	8
People Counting	8
PPE	26
Vehicle Counting	8
Video Search	52
Weapon	8

Steps to renew license.  
In Step 1: Send information file (.info) to your IronYun representative to receive the new license key

License/appliance specifics

[Return to System Configuration](#)

# SETTING — OVERVIEW OF PARAMETERS

- [Role of the current Vaidio server](#)
- [Video:](#)
  - [Video playback length](#)
  - [Drop corrupted frames \(Default: ON\)](#)
  - [Object tracking mode ON/OFF \(Default: OFF\)](#)
  - [Live stream analytics: disable to run analytics on files only \(Default: ON\)](#)
- [Sound & loop times of Intrusion notifications & Alerts](#)
- [License plate format for LPR \(Default: empty\)](#)
- [Theme selection: light/dark](#)
- [Privacy protection \(blurring people and faces\)](#)
- [Camera connection retry interval](#)
- [Retention time of Log and Audit Trail](#)
- [Reset time \(to start a new day from 0 count\) for People & Vehicle Counting](#)
- [Number of search results displayed \(Note: all search results are saved as long as there is disk space available, regardless of the number of results displayed\)](#)
- [GPS Map ON/OFF](#)
- [API Basic Authentication ON/OFF \(Default: OFF\)](#)
- [SSL Certificate](#)

[Return to System Configuration](#)

# SETTING (CONT.)

Select the role of the current Vaidio server:

- Default: Standalone
- Main: can access all units including Main and Remotes
- Remote: is only accessible via Main

Configure the video clip playback duration for video analytic events

Toggle ON/OFF the Object Tracking Mode to enable object tracking in Live View

Input the license plate pattern to be detected as appropriate for the region. E.g., "AAA?999" for license plates that must contain 3 letters in the beginning, a miscellaneous character in the middle, and 3 numbers at the end

[Return to System Configuration](#)

# SETTING (CONT.) VAIDIO ROLE

- ❑ Some functions will be hidden and disabled in Remote and Standalone
- ❑ Remote can only access System
- ❑ User can add cameras, activate analytics and view detection results for Remote via Main. User cannot access analytics or cameras from Remote.

	Vaidio Page	Vaidio Filter	Edit FR List	Edit LPR List	Indoor Map
Standalone	X	X	○	○	○
Main	○	○	○	○	○
Remote	X	X	X	X	X

[Return to System Configuration](#)

# SETTING (CONT.) PRIVACY PROTECTION & GPS MAP

Theme Selection :  Light  Dark  Grey

---

Privacy Protection :  

---

Camera Connection Retry Interval : 10   Seconds.  
Suggested Value : 3 ~ 60 Seconds.

---

Log Retention Time : 7   days 3 ~ 365 days

Audit Trail Retention Time : 7   days 3 ~ 365 days

---

People Counting Reset Time : 23:00

Vehicle Counting Reset Time : 00:00

---

Search Result Display : 1000  1000-10000  
Suggested value: 1000

---

GPS Map :  

API Basic Authentication :

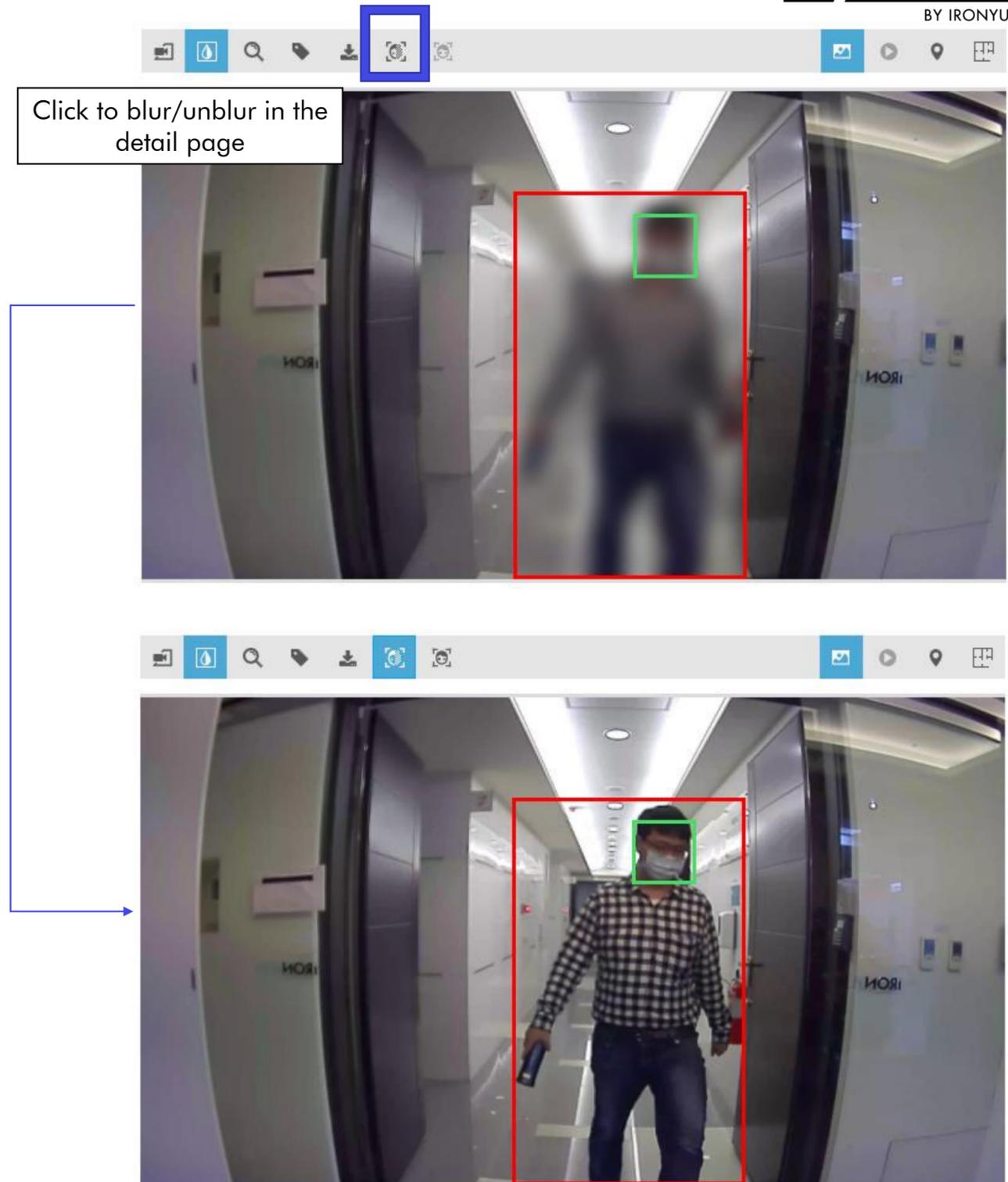
Toggle ON/OFF to implement Privacy Protection (blur people and faces in displayed detection)

Toggle ON/OFF to implement GPS map (must be connected to the internet)

[Return to System Configuration](#)

# PRIVACY PROTECTION

- ❑ When **Privacy Protection** is ON, all detected person/face are blurred in search & alert results for all cameras activated in the server:
  - ❑ Blurred detail page, thumbnails, exported data thumbnails
  - ❑ Restrictions: **no video playback, no video download, no live view**
- ❑ Blurring is applied right after analysis, and images processed **before** turning on Privacy Protection **cannot** be blurred.
- ❑ Admin and user with **Privacy Protection - Unblur** permission can **Unblur Face** in the detail page
  - ❑ Once the icon is clicked to Unblur, **all** blurred people/faces are unblurred
- ❑ **With Privacy Protection, the system needs double storage** (refer to the Storage Calculator in the portal)
- ❑ Compatible AI models: General model, Power model 2.2 and higher
- ❑ **Turning ON Privacy Protection will restart the system**



[Return to System Configuration](#)

# AI MODEL

General Time Storage Mail LDAP Log Audit Trail License Setting **AI Model** Utility Restart

Upload

AI Model Name

AI Model Name	Object Type	Actions
<input type="checkbox"/> PowerModel-PRO-3.0.0	<a href="#">28</a>	Replace
<input checked="" type="checkbox"/> PowerModel-POC-3.0.0	<a href="#">53</a>	Replace
<input checked="" type="checkbox"/> PowerModel-PRO-2.2	<a href="#">20</a>	Replace
<input type="checkbox"/> PowerModel-PRO-2.1	<a href="#">15</a>	Replace
<input type="checkbox"/> Head-PRO-1.0	<a href="#">1</a>	Replace
<input checked="" type="checkbox"/> Fire-PRO-4.0	<a href="#">2</a>	Replace
<input checked="" type="checkbox"/> Weapon-PRO-4.0	<a href="#">3</a>	Replace
<input checked="" type="checkbox"/> General-PRO-4.0	<a href="#">33</a>	Replace

Apply

Switch / Upload AI Model to apply different object types to all analytics functions in Vaidio.

Click on the number to view the detectable object types in each AI model

- ❑ Use the **Replace** button to upgrade the model and keep all settings in cameras.
- ❑ Changing the model by Upload and activating it (instead of by using the Replace button) **will erase ALL settings** in the cameras.
- ❑ The replaced AI model must include all object types of the AI model being replaced.

AI model determines which **object type** can be detected

[Return to System Configuration](#)

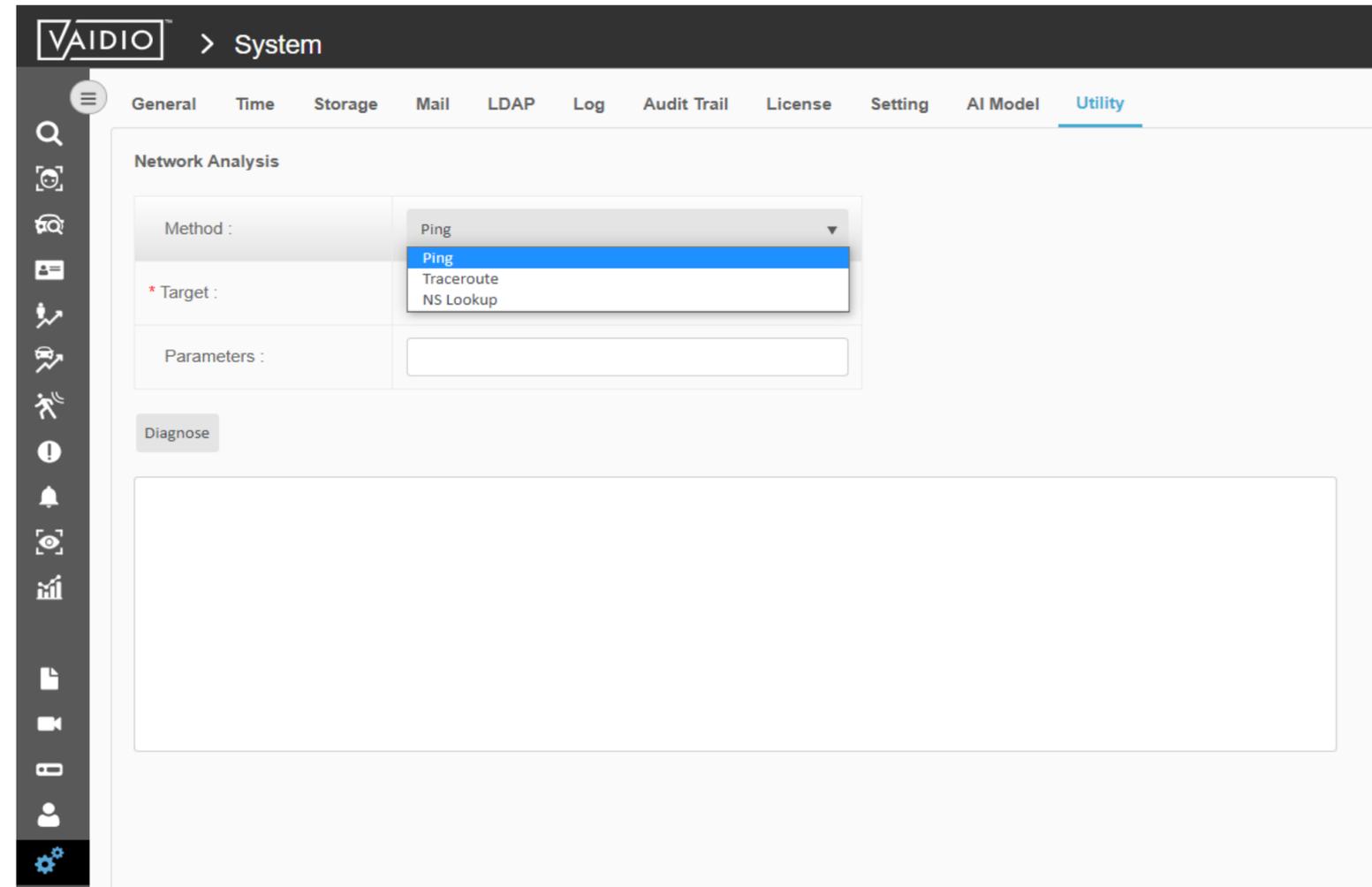
## AI MODEL (CONT.)

- Default model:
  - Vaidio 5.4.0 and later: Power Model
  - Vaidio 5.3.0 and earlier: General PRO 4.0 model
- The default model can support all analytics functions. Other models may not support certain analytic functions and object types, e.g.,  
Weapon Model does not support LPR.
- Contact your local IronYun representative for more details on which model to use.

[Return to System Configuration](#)

# UTILITY

- Diagnosis tool for network analysis
  
- Methods available:
  - Ping
  - Traceroute
  - NS Lookup



[Return to System Configuration](#)

# ADMIN PORTAL

---

- [Admin Portal Login](#)
- [Network](#)
- [Upgrade](#)

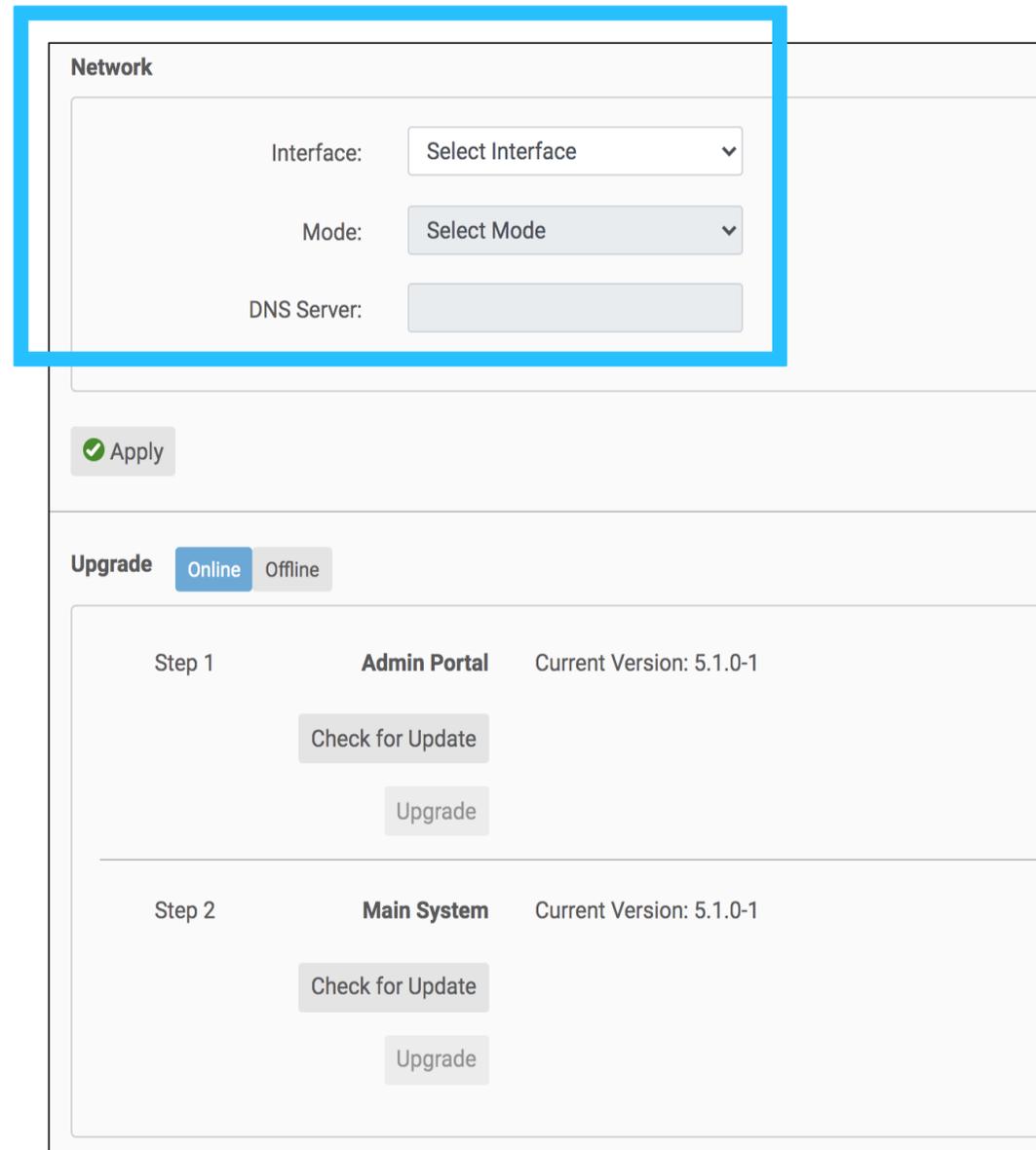
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# ADMIN PORTAL LOGIN

- ❑ Log into the admin portal using the IP address of the Vaidio server of interest, port 8000, and the server's admin username & password
- ❑ Example:
  - ❑ `https://192.168.100.100:8000`
- ❑ Purpose:
  - ❑ To change admin password (**recommended** after first login for maximal security)
  - ❑ To set time zone of Vaidio server and synchronize with NTP server
  - ❑ To configure network connection
  - ❑ To perform software upgrade

[Return to Admin Portal](#)

# NETWORK



- Interface: hardware-dependent. User only needs to select the interface to change the IP address or add an IP address
- Mode:
  - DHCP
  - Static configuration
- Add DNS server if necessary

[Return to Admin Portal](#)

# UPGRADE

- Online upgrade
  - MUST have Internet connection to check for update and download the upgrade file into the local main Vaidio server
  - Upgrade the admin portal (Step 1) and the main Vaidio system (Step 2) using the Internet

- Offline upgrade
  - Contact IronYun representative and support team to obtain the upgrade file (13+ GB). Internet is only required to download the file to your local drive.
  - Upgrade the admin portal (Step 1) and the main Vaidio system (Step 2) in the local network (no internet is required).

Step 1	<b>Admin Portal</b>	Current Version: 5.1.0-1
	<input type="button" value="Check for Update"/>	
	<input type="button" value="Upgrade"/>	
Step 2	<b>Main System</b>	Current Version: 5.1.0-1
	<input type="button" value="Check for Update"/>	
	<input type="button" value="Upgrade"/>	

Step 1	<b>Admin Portal</b>	Current Version: 5.1.0-1
	<input type="button" value="Upload"/>	Please upload the upgrade file you get from the support team.
	<input type="button" value="Upgrade"/>	
Step 2	<b>Main System</b>	Current Version: 5.1.0-1
	<input type="button" value="Upload"/>	Please upload the upgrade file you get from the support team.
	<input type="button" value="Upgrade"/>	

[Return to Admin Portal](#)



BY IRONYUN

**THANK YOU**

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