



VAIDIO CORE 9.0.0

SETUP GUIDE

VAIDIO CORE SETUP USER GUIDE WORKFLOW



Pre-configuration

Prepare Working Environment for Vaidio: Vaidio Server, PC with Chrome or Edge, PoE switch connected to camera network

Follow Installation Guide instructions to set up Vaidio Core (obtained from Vaidio representative)

Install and Access Vaidio Admin Portal (http://vaidioip:8000) Login to Vaidio GUI with default Admin Password and set/change Password as necessary (http://vaidioip)

Apply License

Go to <u>System</u> > <u>License</u> and export .info file to request new Vaidio license

Fill out <u>Support Ticket</u> to request new license and attach .info file

Receive .key file from Vaidio and upload to Vaidio (<u>System</u> > <u>License</u>)

Vaidio System Setup & Configuration

Set Timezone of Vaidio server Configure Storage and Metadata Retention Settings *(Optional)* Check Al Model *(Optional)* Configure SMTP server, LDAP, SSO, SSL

(Optional) Configure Vaidio server role (Standalone, Main, Remote, Node) (Optional) Configure
additional settings
(privacy protection,
video replay time,
sound settings, analytics
reset time, etc.)

Camera, NVR, and File Setup & Management

Add Camera, NVR, File *(Optional)* Add Camera to Camera Group *(Optional)* Add Indoor Map and/or GPS Coordinates

Select Al Model

Configure Camera Profile

Apply AI Engine(s) and Draw Region of Interest (ROI)

Setup Analytics Alerts

Add Alerts

<u>User Management</u>

Add User Groups

Set Permission Controls

Add Users to User Groups

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- System Configuration
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 - Role: Cluster (Main/Remote) & Command Center (Node)
 - Video Playback & Alert Sounds, LPR Patterns & Vehicle
 Types, Additional Settings, Privacy Protection, Utility,
 Security



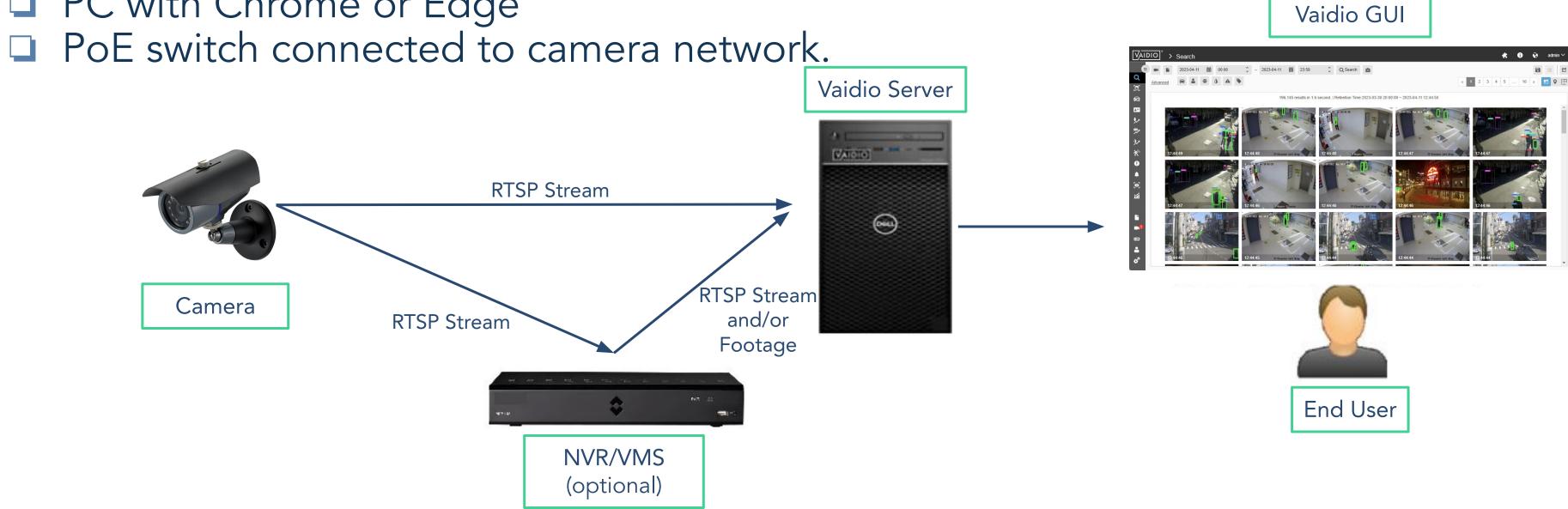
- Camera Management
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- File Management
 - Upload Video, Retrieve Video
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 - API Keys Management
- Alert Setup
 - Add New Alert, Alert Scheduling, Copy Existing Alert Trigger Action
- User Management
 - Types of User Accounts, Add User, Add User Group
 - Permission Control

SYSTEM OVERVIEW



Working Environment:

- Vaidio Server
- PC with Chrome or Edge





ADMIN PORTAL

- Overview
- Network
- Upgrade

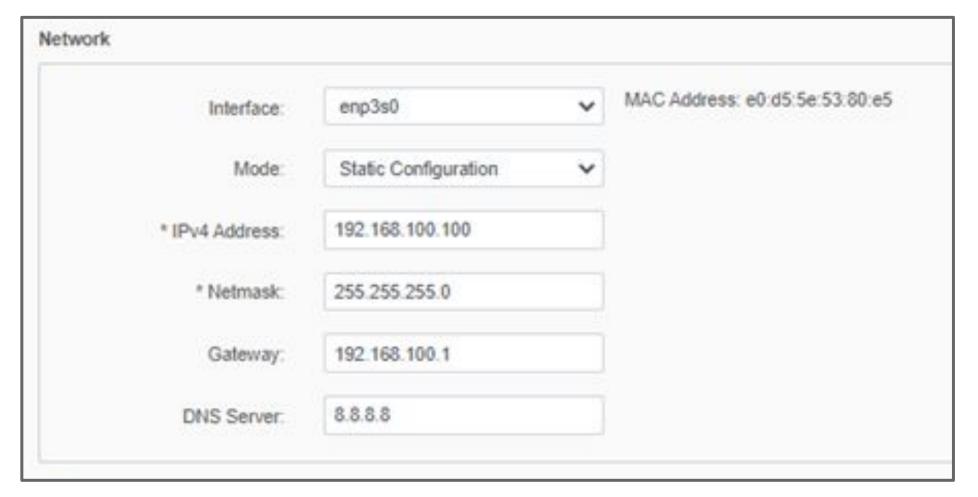
ADMIN PORTAL OVERVIEW



- Log into the Admin Portal using the IP address of the Vaidio server, port 8000, and the server's admin username & password
- **Example:**
 - http://192.168.100.100:8000/
- Purpose:
 - Change the admin password (recommended after first login for maximum security)
 - Set timezone of Vaidio server and synchronize with NTP server
 - Modify port and network configuration & change Vaidio's IP address
 - Perform software upgrade
 - Factory reset the server

ADMIN PORTAL: NETWORK



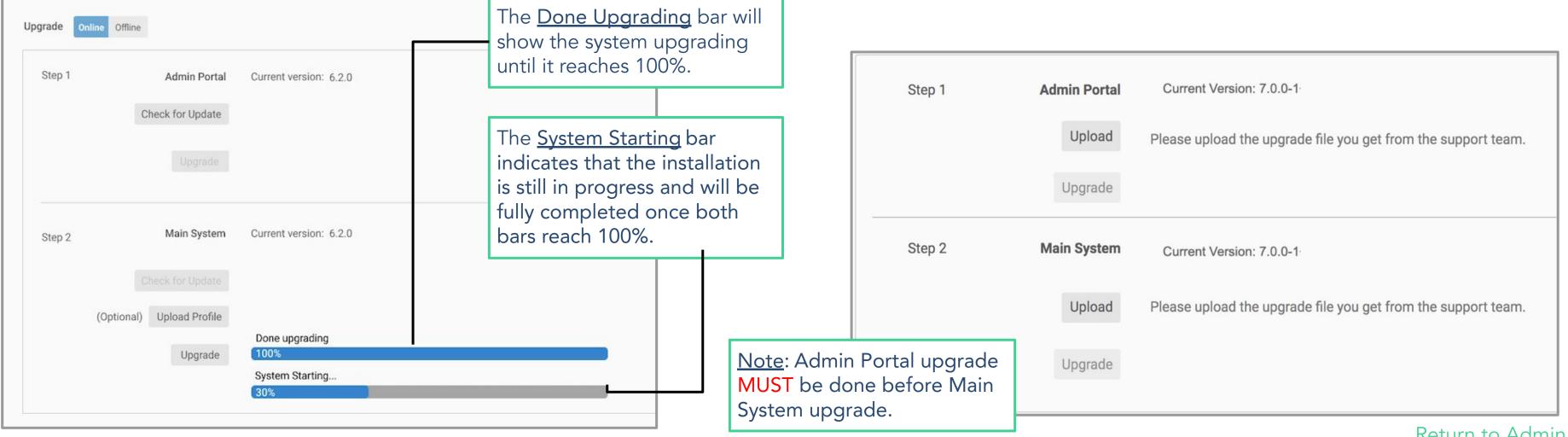


- Interface: depends on the hardware name. User must select the interface to change/add an IP address
- Mode options:
 - DHCP
 - Static configuration
- Add DNS server if necessary

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 Vaidio via the Support Portal to obtain the file (13+ GB). Internet is only required to download the file to the user's local drive.
 - Upgrade the admin portal (Step 1) and the main video system (Step 2) in the local network (no internet is required).



Return to Admin Portal

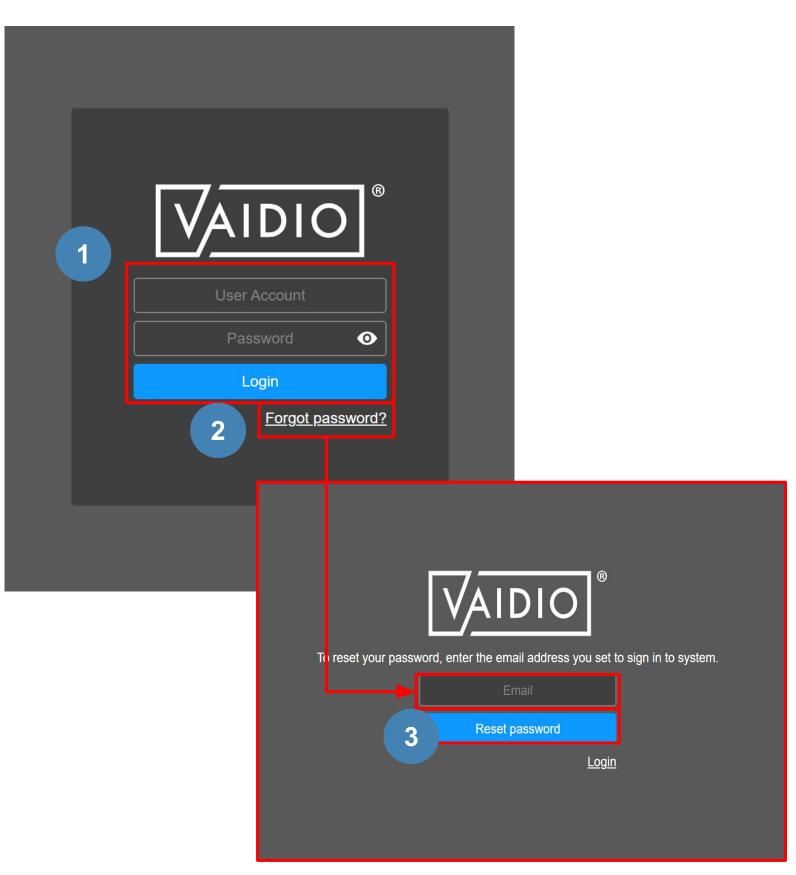


USER INTERFACE

- Login
- User Menu
- User Functions

LOGIN





- 1. Log in with the **default admin** account.
 - a. User Account: admin
 - b. Password: admin888

Notes

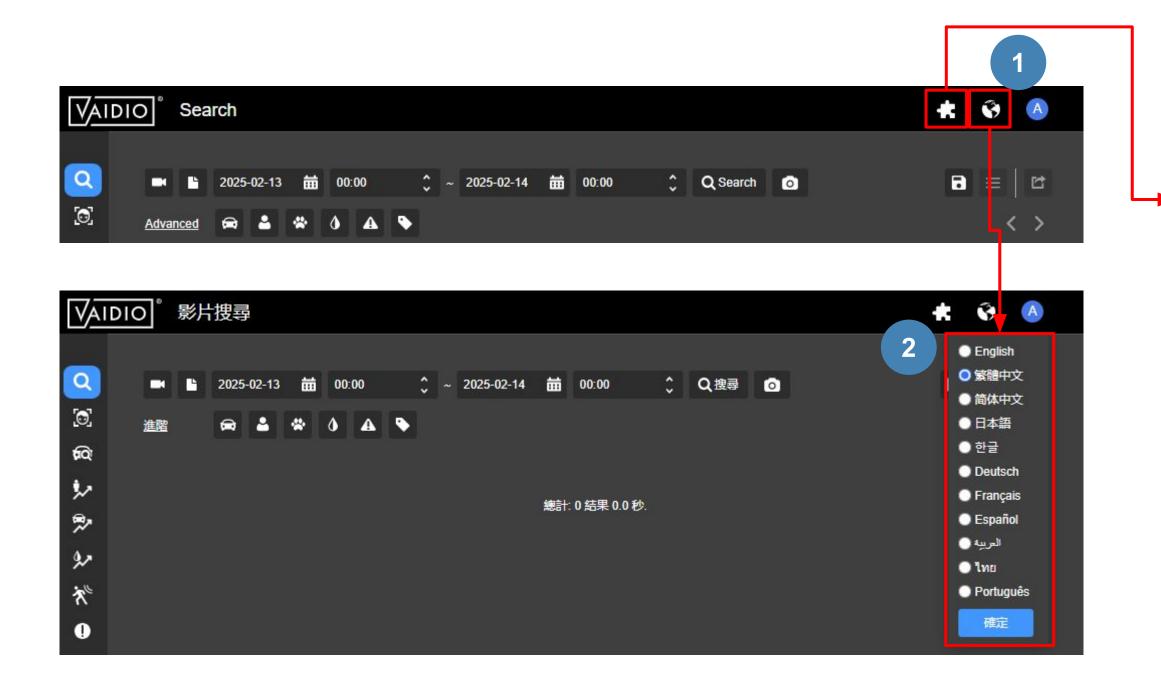
- Change the password after first login for security; store it safely.
- ☐ Three failed attempts lock the account for five minutes before retrying.
- 2. To recover password, click Forgot password > enter the email address used to originally sign in to the Vaidio system.
- 3. Click **Reset password** to enable the system to send a **password reset link** to the entered **email address**. From the **system generated email**, click the **link** to set a **new password**.

Note

SMTP MUST be setup before password recovery.

USER FUNCTIONS



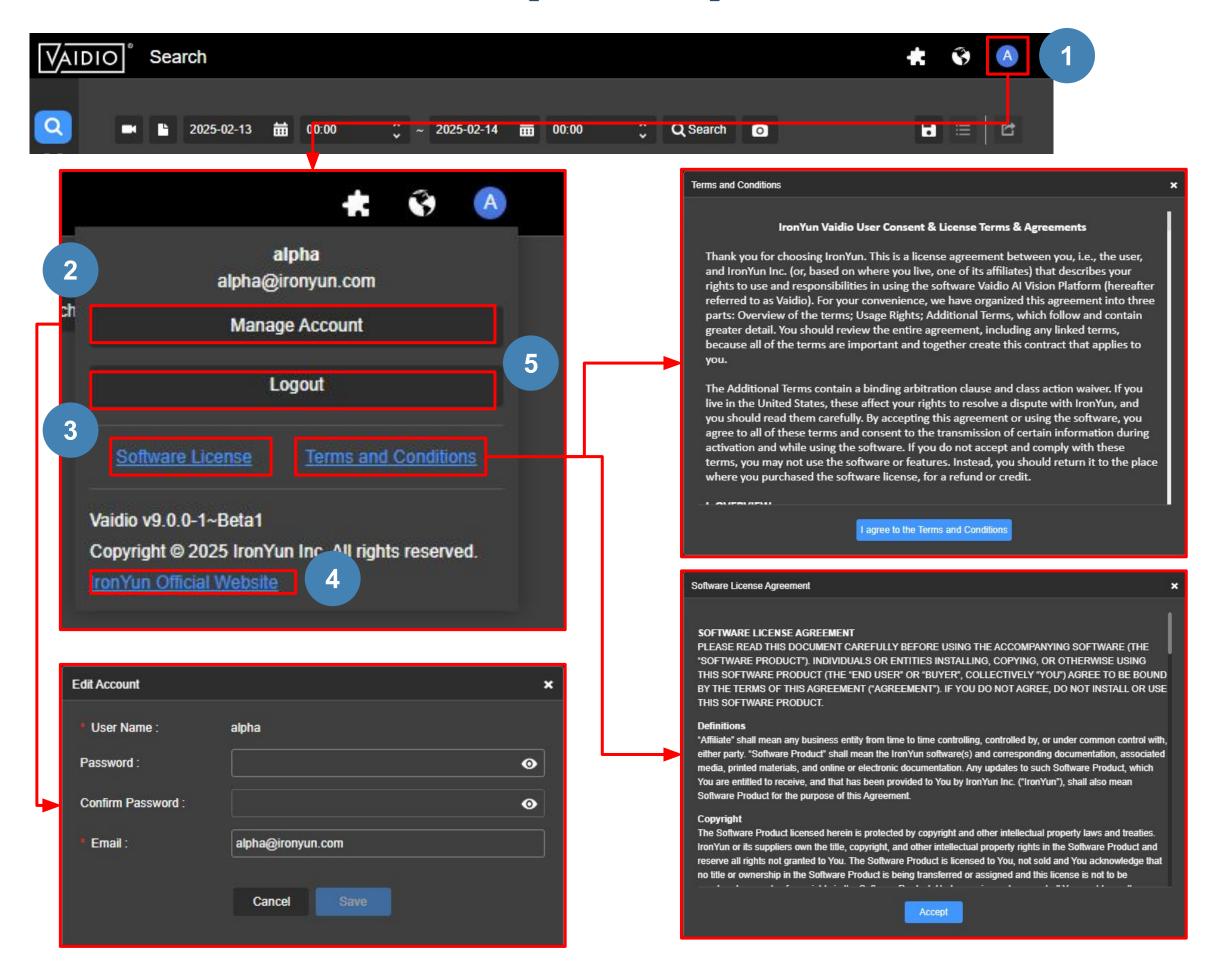


Vaidio Core includes three top-level configuration icons - Plugin, Language, and User - in the top-right of the application banner.

- Plugin: Display & access plugins uploaded to Vaidio.
- Language: A list of **eleven** application-compatible languages to select from (e.g., **English**, **Traditional Chinese**, **Deutsch**, **Español**, etc.)
- 1. Click Language icon to display menu drop-down.
- 2. Select a **language** > **OK** to use the **Vaidio Core** application in the selected language.

USER FUNCTIONS (CONT.)

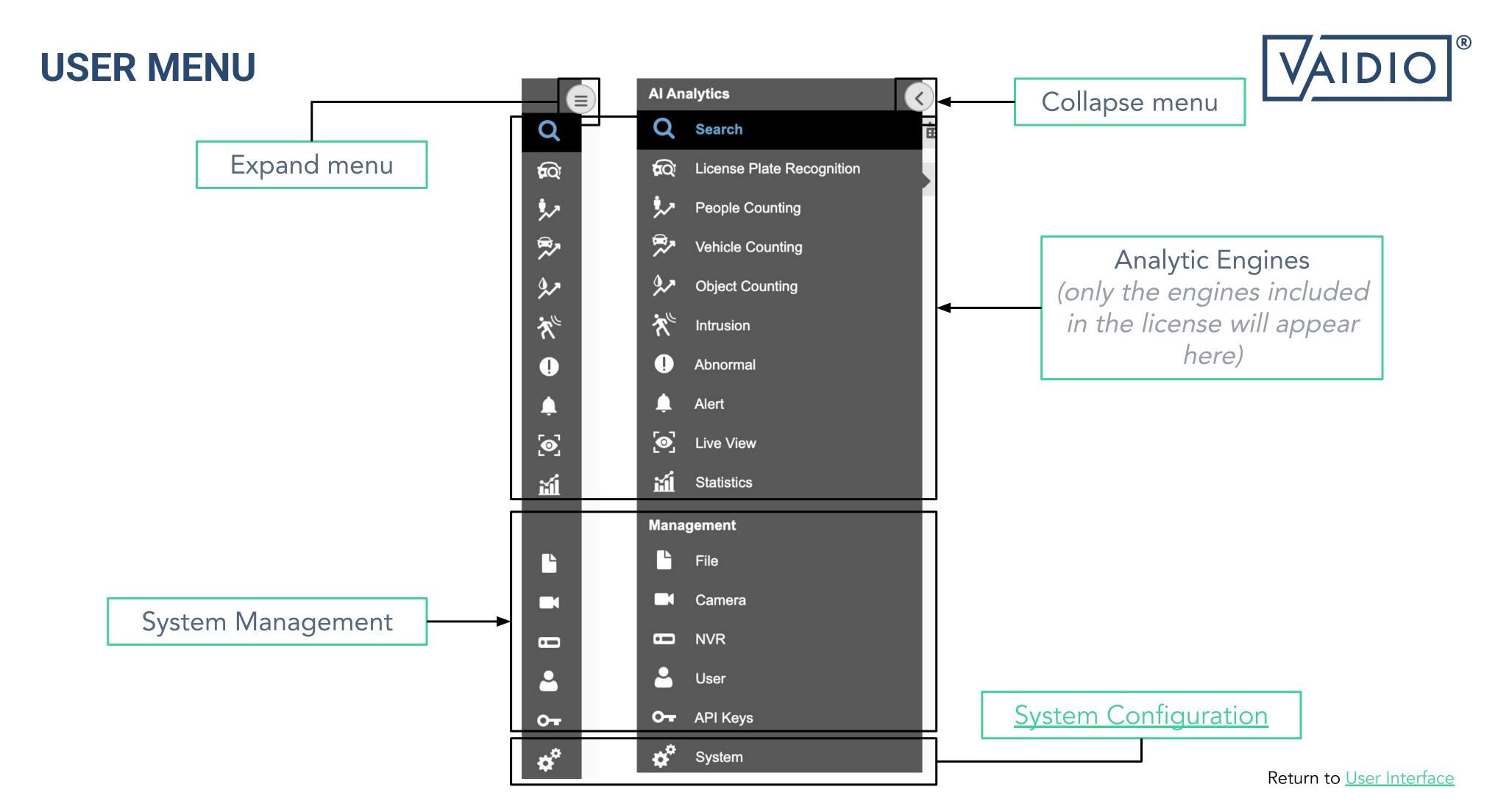




User: Manage user accounts, Logout, view the Software License Agreement and Terms and Conditions, and access the Vaidio website.

- 1. Click the **User icon** to display options.
- Manage Account > Edit Account. From this screen, the user can change their Vaidio Core password or email address.
- Click the Software License and/or Terms and Conditions links to view and accept.
- 4. Click link to view the Vaidio Official Website.
- 5. Click **Logout** to logout of **Vaidio**.

Return to <u>User Interface</u>





SYSTEM CONFIGURATION

- License
- General
- **Time**
- Storage
 - AWS S3 integration
- → Al Model
- ☐ SMTP Setup
- **LDAP**
- SSO

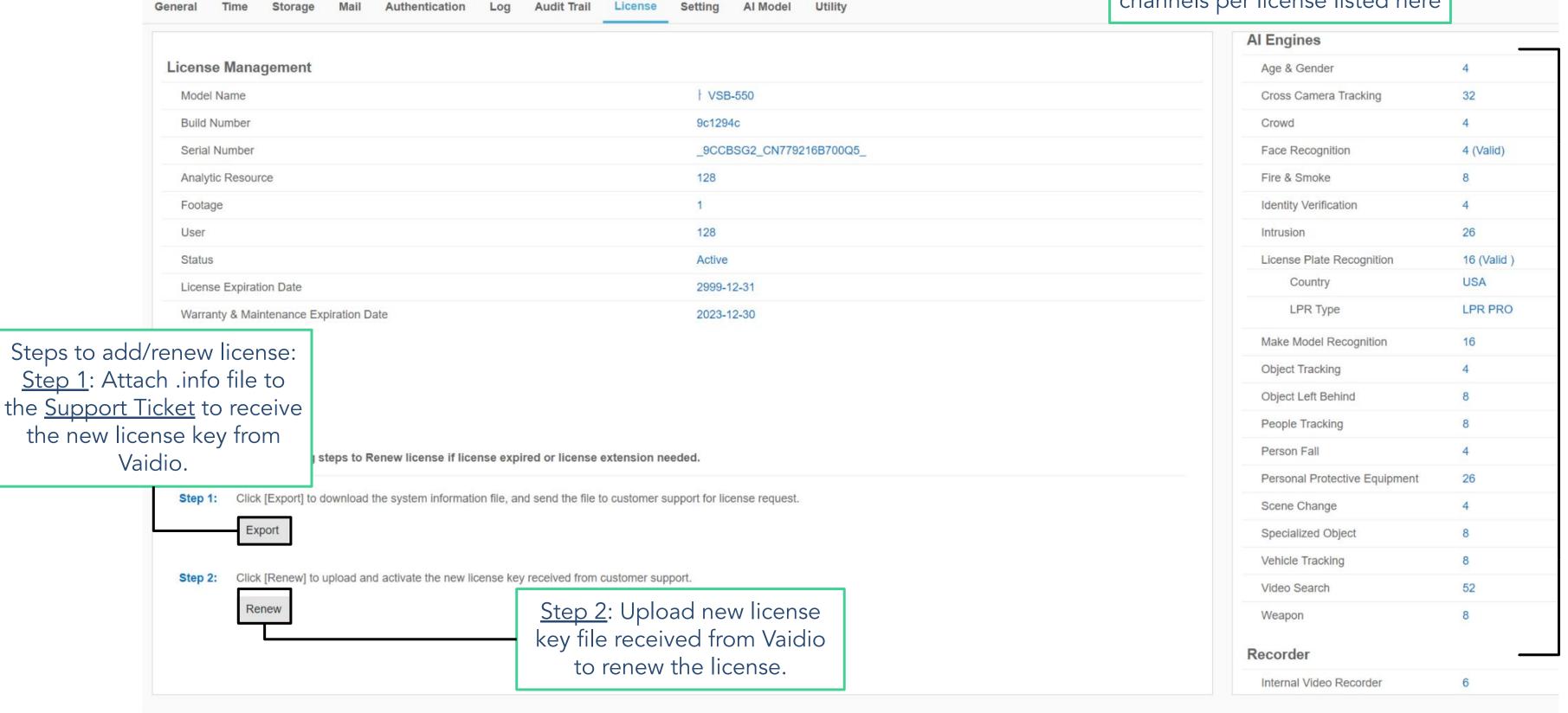
- Upload SSL Certificate
- Role: Cluster (Main/Remote) & Command Center (Node)
- Video Playback & Alert Sounds
- LPR Patterns & Vehicle Types
- Additional Settings
- Privacy Protection
- Utility

LICENSE

Navigate to <u>System</u> > <u>License</u>

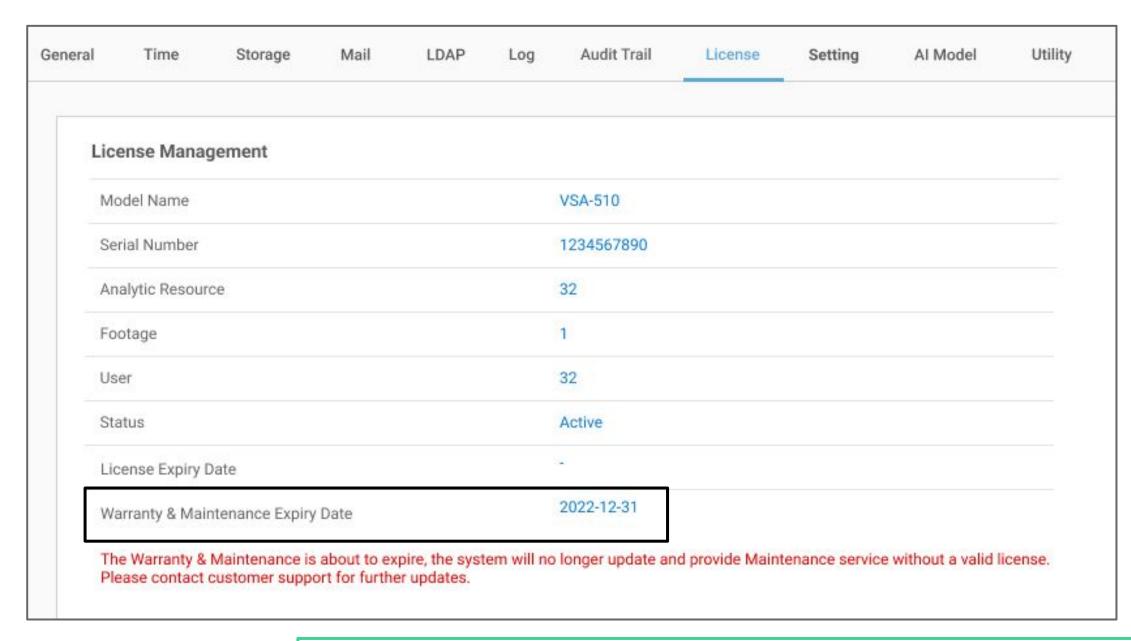


Al Engine licenses & # of channels per license listed here



LICENSE (CONT.) - WARRANTY





This message will appear when the user logs into Vaidio if the warranty is about to expire.

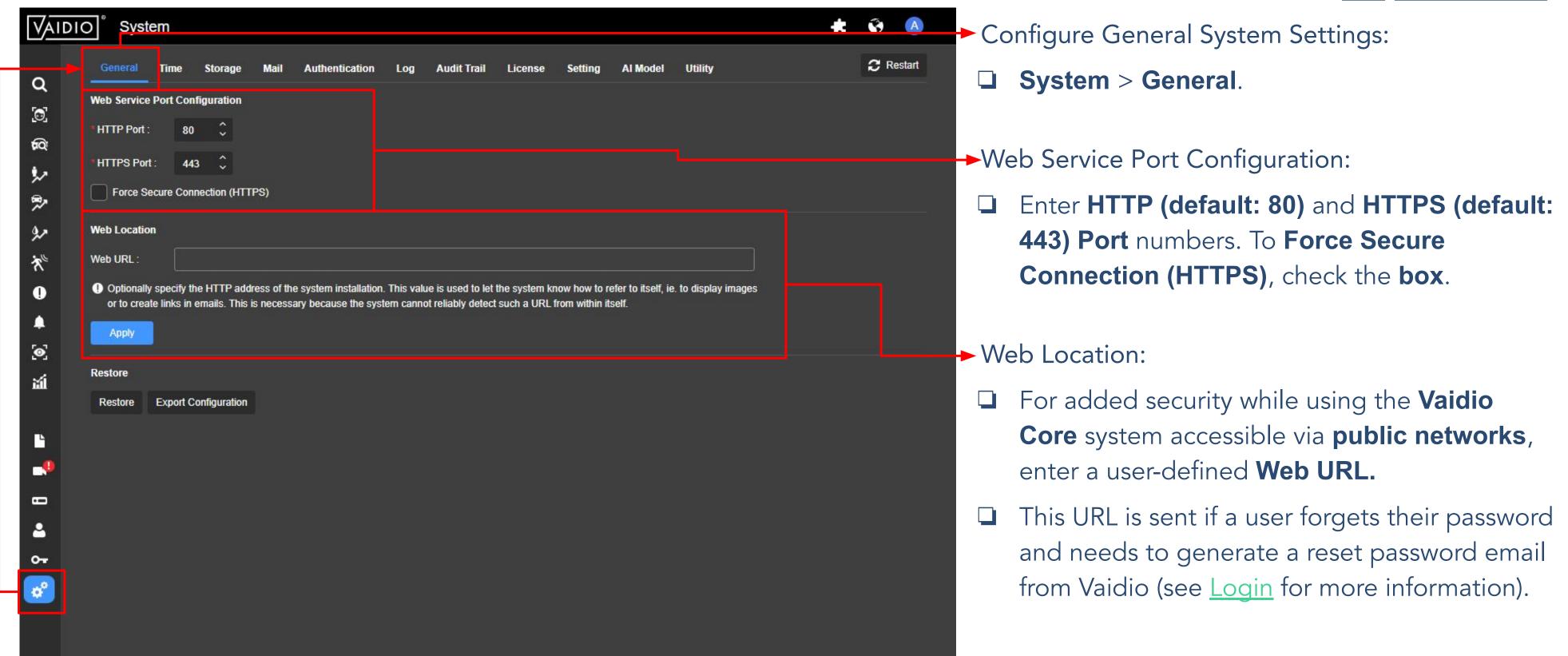
Warranty & Maintenance Expiring		×
Your Warranty & Maintenance is	about to expire.	
The Warranty & Maintenance will Please go to the System/License	Except (102-102)	
	OK Do not show again	

Warranty Date: indicates the date to which the user's system is covered under Vaidio's Upgrade & Maintenance service contract.

When the warranty is about to expire, Vaidio will send the user an email notification to renew the warranty, or the user can log into the Vaidio Support Portal (https://www.vaidio.ai/support) to submit a ticket with the Vaidio Serial Number to request a new license with renewed warranty.

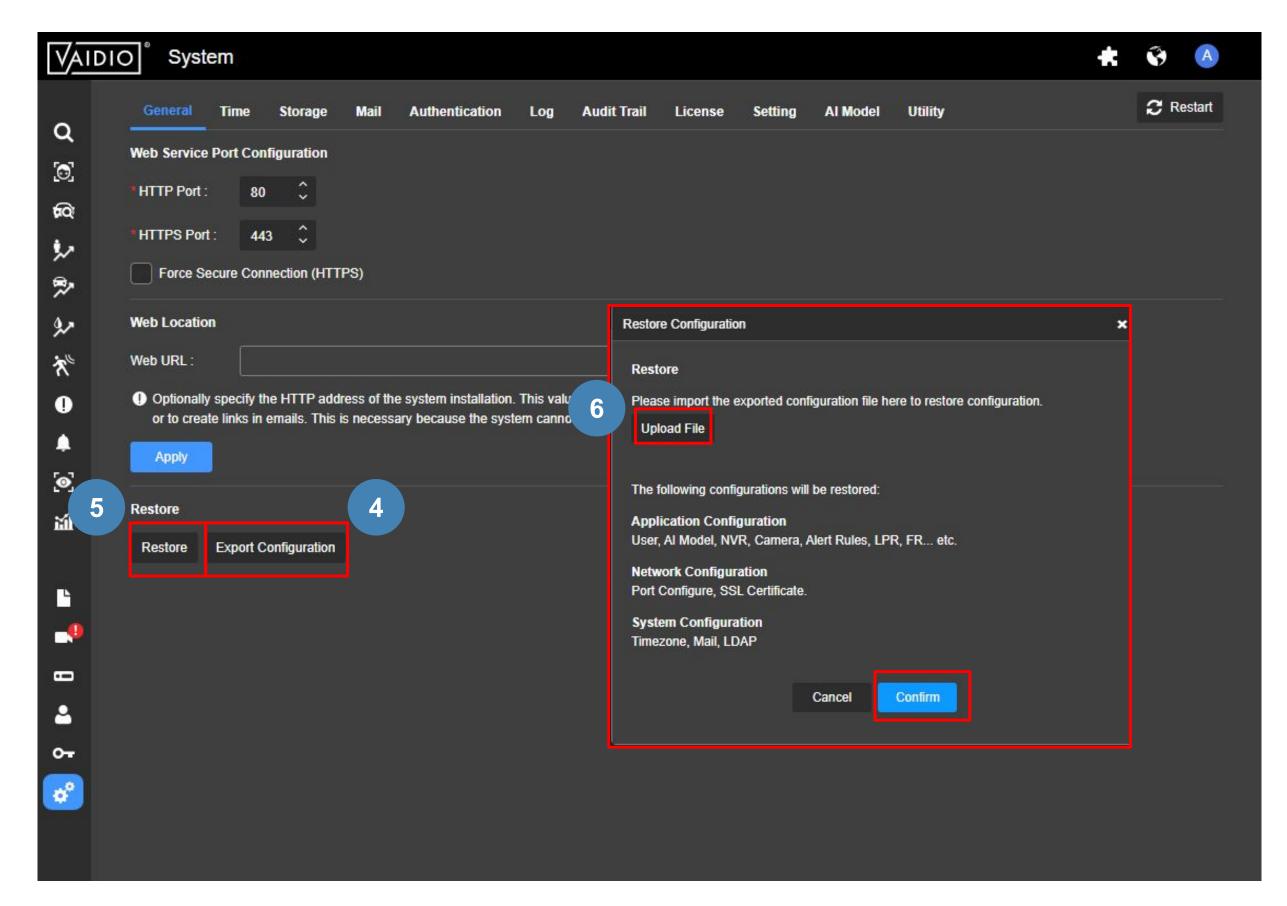
GENERAL





GENERAL (CONT.)



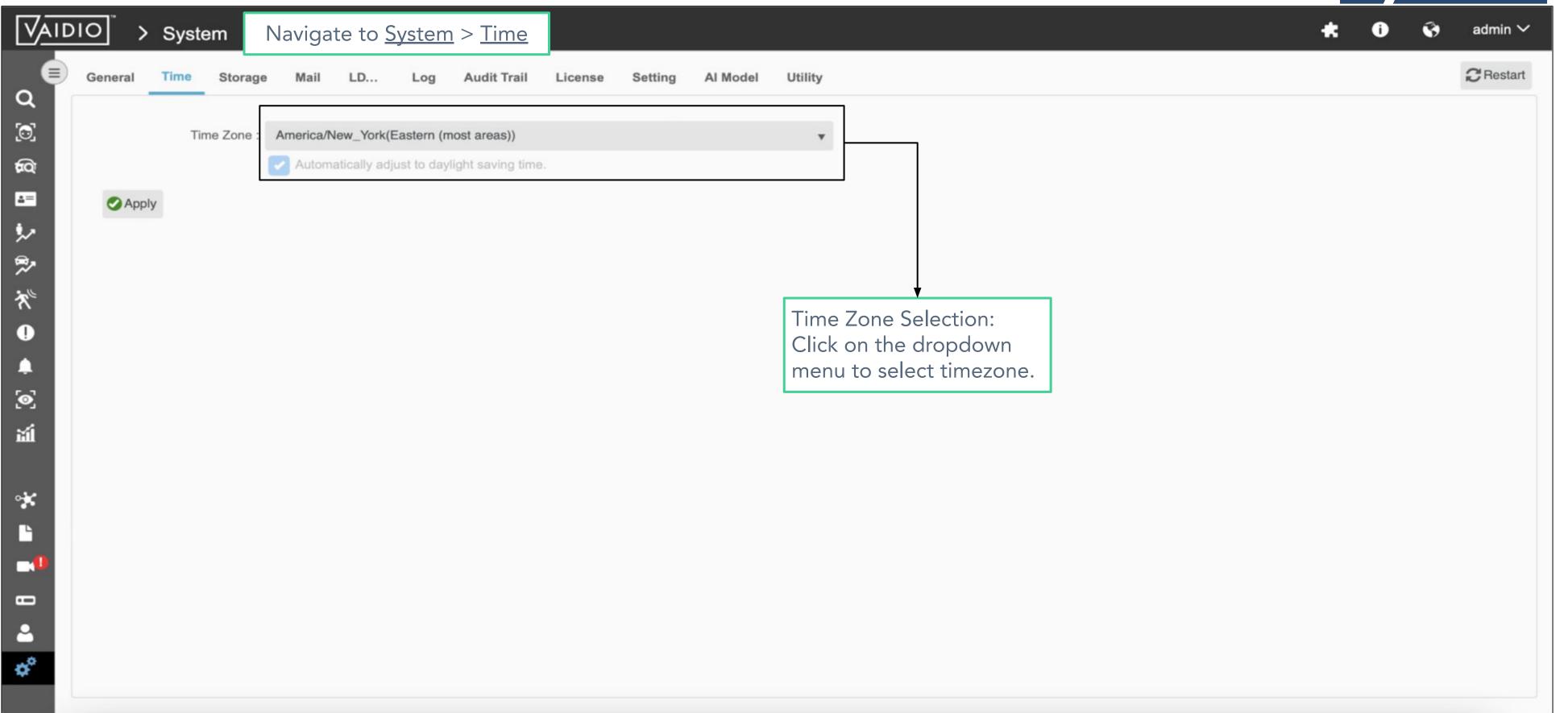


Restore:

- Select **Export Configuration** to save system settings (.bin file).
 - Applicable backup configurations include:
 - Application
 - □ Network
 - **□** System
- Select Restore to display a RestoreConfiguration screen.
- □ Upload File > upload an exported .bin file >
 Confirm to restore system settings to the selected configuration.

TIME





Return to <u>System Configuration</u>

STORAGE

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 is removed first
- Toggle ON:
 - ☐ If the retention time is reached before the 80% limit, data older than the retention time is removed
 - If the 80% limit is reached before the retention time, oldest data is removed until the usage is below 80%



Navigate to <u>System</u> > <u>Storage</u>

General	Time	Storage	Mail	LDAP	Log	Audit Trail	License
System St	_	3,227.2	a territo				
Used Spac	e / Total S	Space : 127.1	2GB / 20	3.01GB			
Total Usage	e:		62.62	% Used			
Metadata :							
Total Numb	er of Obje	ects : 281716	59				
Retention [Date : 202	2-02-06 02:0	0:00 ~ 20	22-02-13 0	3:29:07		
Used Spac	e / Total S	Space : 1387.	73GB / 5	543.44GB			
Total Usage	e:		25.03	% Used			
Recorder I	Data :						
Retention [Date : 202	2-02-06 02:0	0:32 ~ 20	22-02-13 0	3:28:40		
Used Spac	e / Total S	Space : 530.1	2GB / 554	43.44GB			
Total Usage : 9.56% Used							
Storage Co	onfigurat	ion :					
The system	n automat	ically remove	s older da	ata once sto	orage usa	ge exceeds 80%	6.
System St	orage an	d Metadata	Retention	n Time:			
System St	orage an	d Metadata	Retention	Period:		30 🗘 da	ys
Recorder I	Data Ret	ention Time:					
Recorder I	Data Ret	ention Period				30 🗘 da	ys
Apply							

STORAGE (CONT.) - AWS S3 STORAGE







For multi-tier cloud storage option, configure AWS S3 storage for Vaidio Core:

(Pre-configuration) Users are responsible for the following:

- Register for AWS S3 (for more information view <u>Amazon S3 documentation</u>).
 Create S3 Bucket on AWS (view <u>Working with buckets</u>).

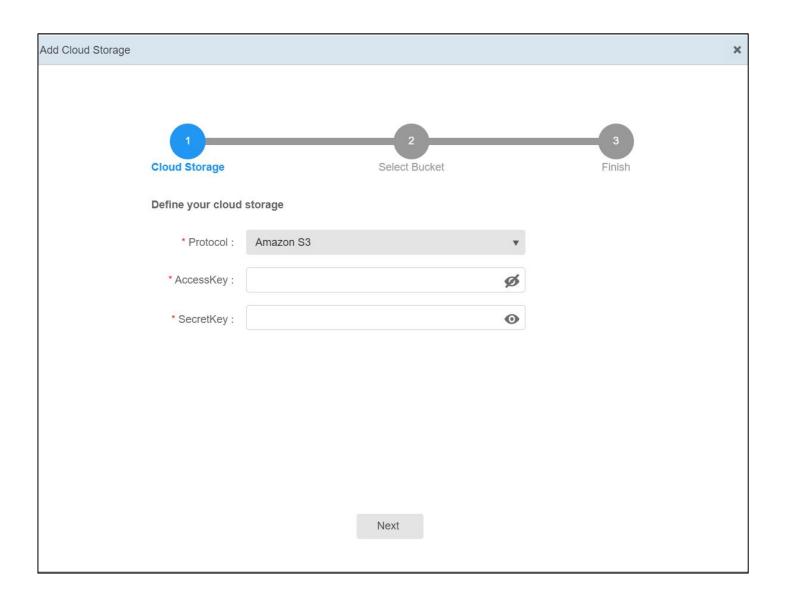
(In Vaidio)

3. Configure S3 in Vaidio (view <u>next slide</u>).

STORAGE (CONT.) - CONFIGURE S3 IN VAIDIO







<u>Step 1</u>: Select Amazon S3 for Protocol and input the Access Key & Secret Key.

<u>Step 2</u>: Select the AWS Region of the user from the dropdown menu. Select an existing bucket or Create a new bucket.

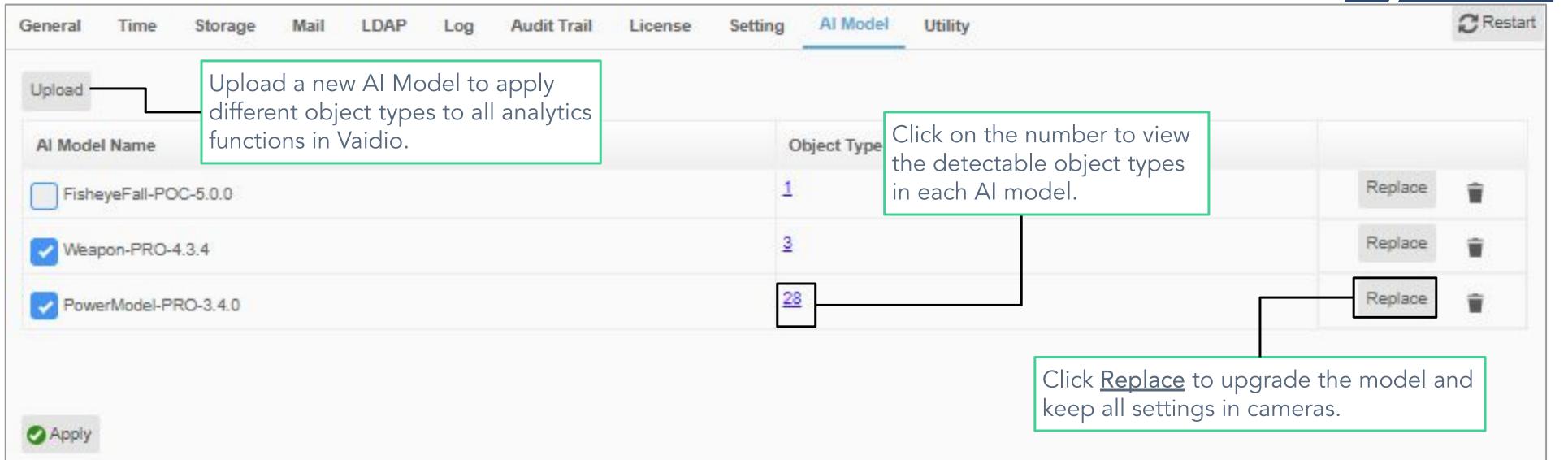
<u>Step 3</u>: When the information has been successfully input, a popup message will indicate that the integration is complete.

Successfully applied to the storage policy.

AI MODEL

Navigate to <u>System</u> > <u>Al Model</u>





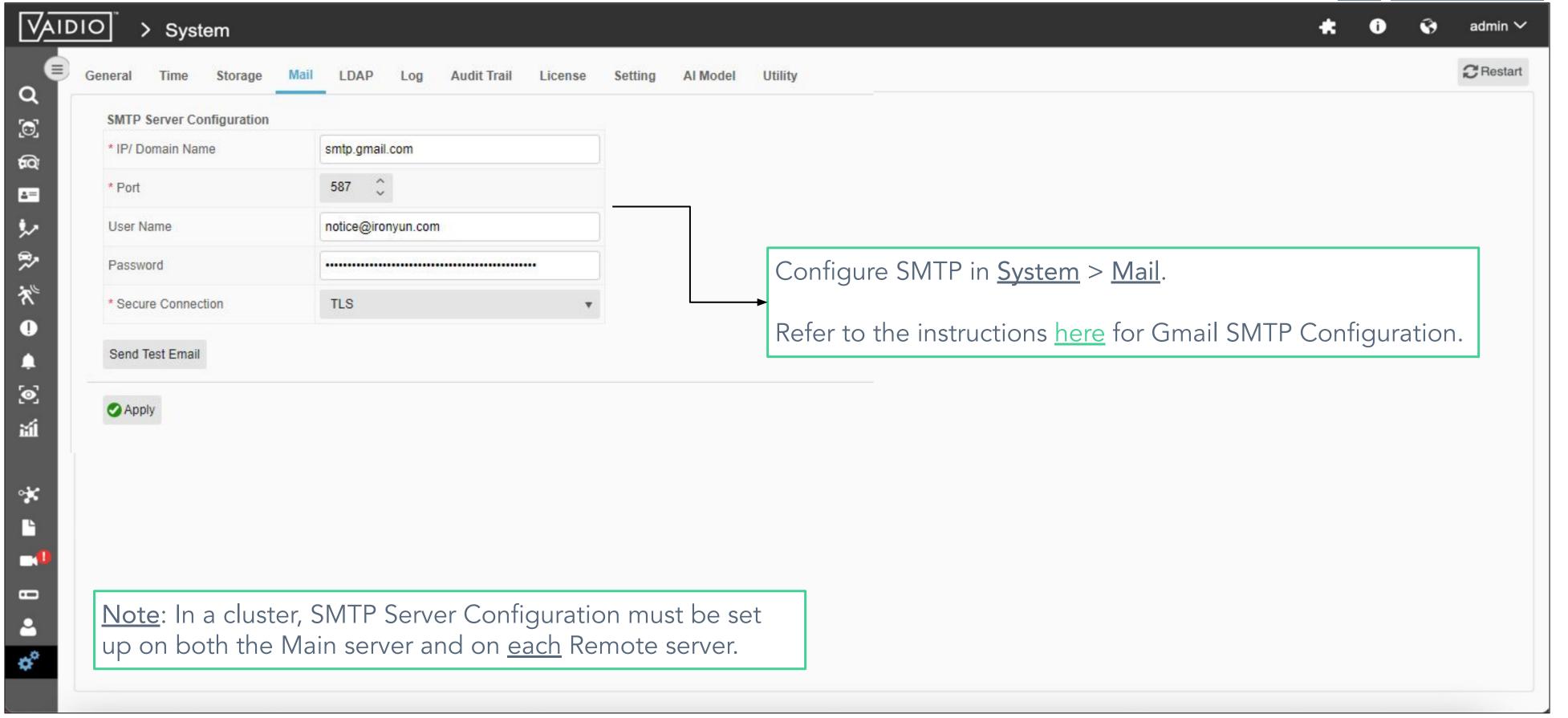
Note: The Al Model determines which <u>object type(s)</u> can be detected in Vaidio.

Note:

- Changing the model by clicking Upload and activating it (instead of by using the Replace button) will erase <u>ALL</u> settings in the cameras.
- ☐ The replaced AI model must include all object types of the AI model being replaced.

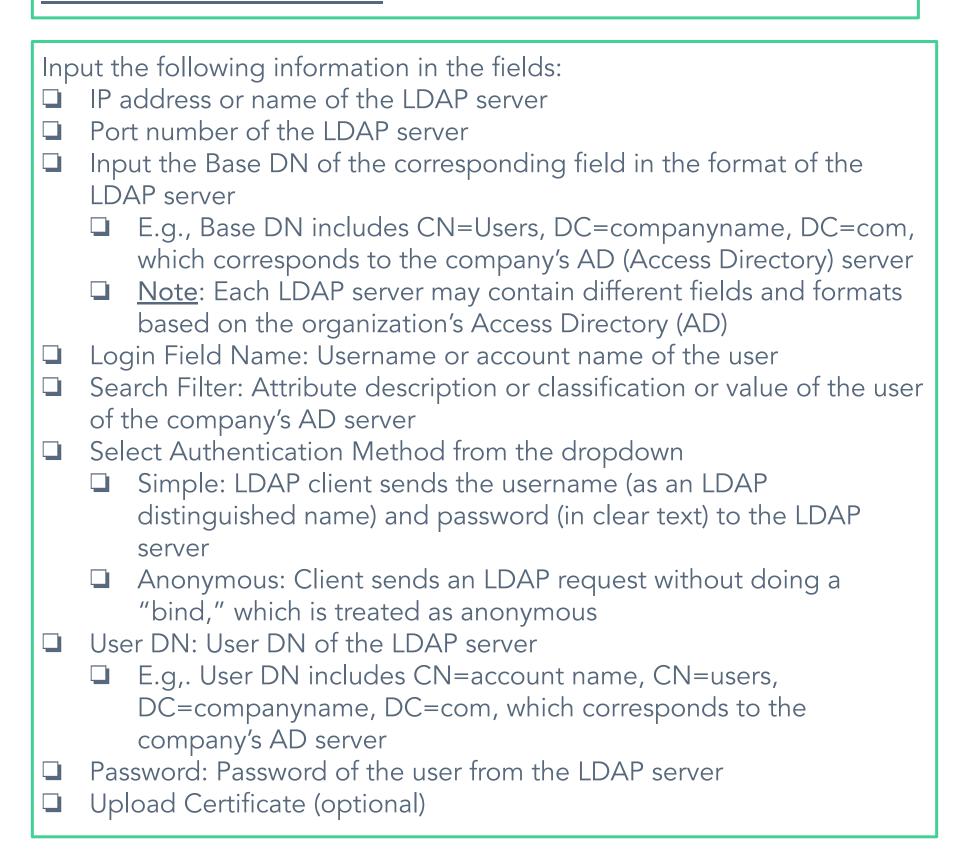
SMTP SETUP



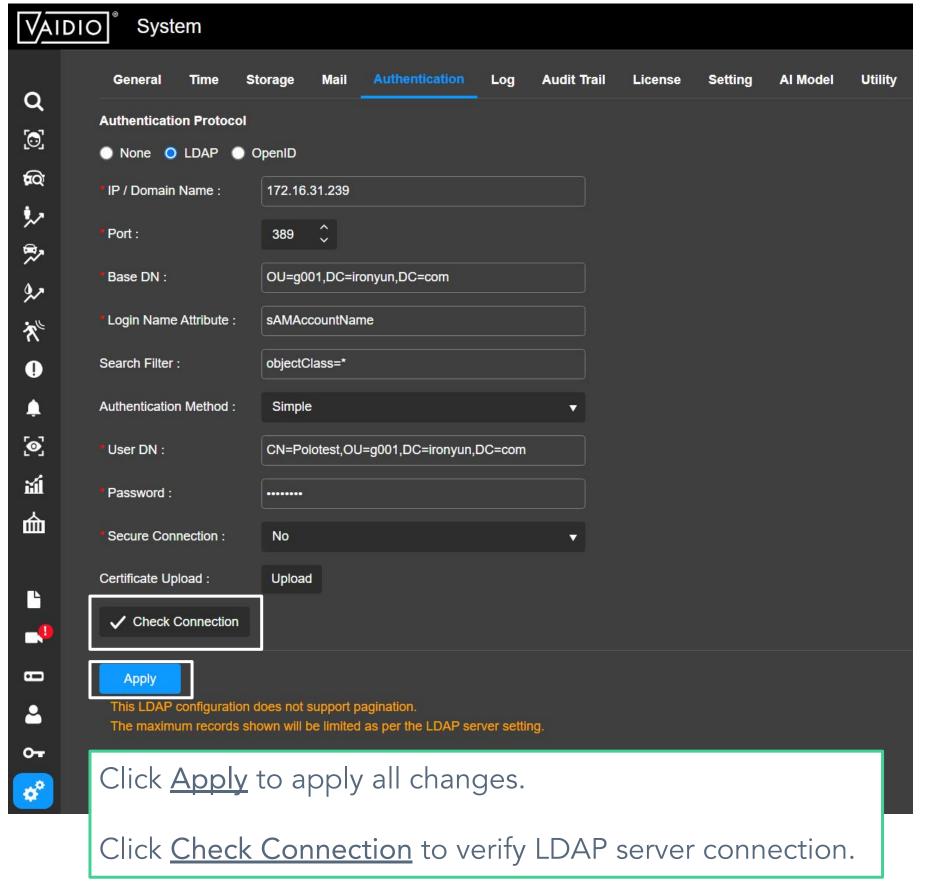


LDAP: SETUP LDAP SERVER

Navigate to <u>System</u> > <u>Authentication</u> > Click <u>LDAP</u> for Authentication Protocol.

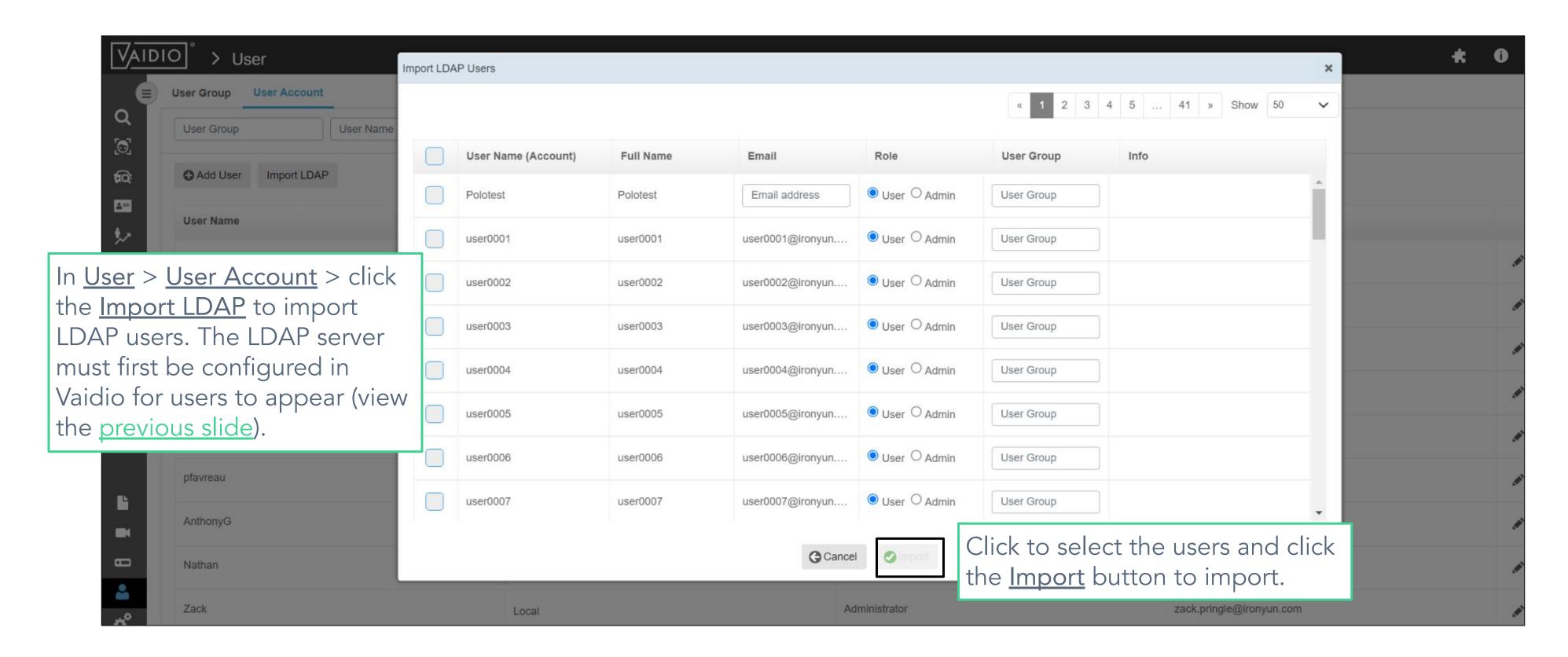






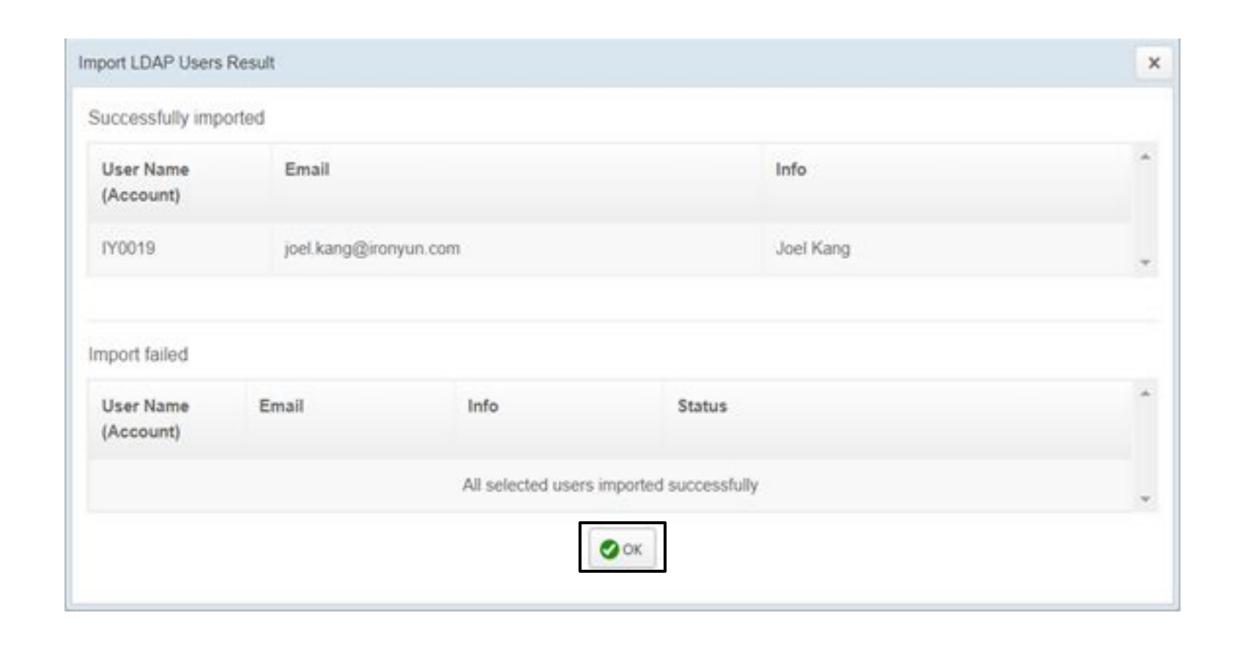
LDAP (CONT.): IMPORT LDAP USERS





LDAP (CONT.): IMPORT LDAP USERS





After clicking <u>Import</u>, a popup window will appear to indicate if the import was successful or not.

Click OK to confirm.

LDAP (CONT.): IMPORT LDAP USERS

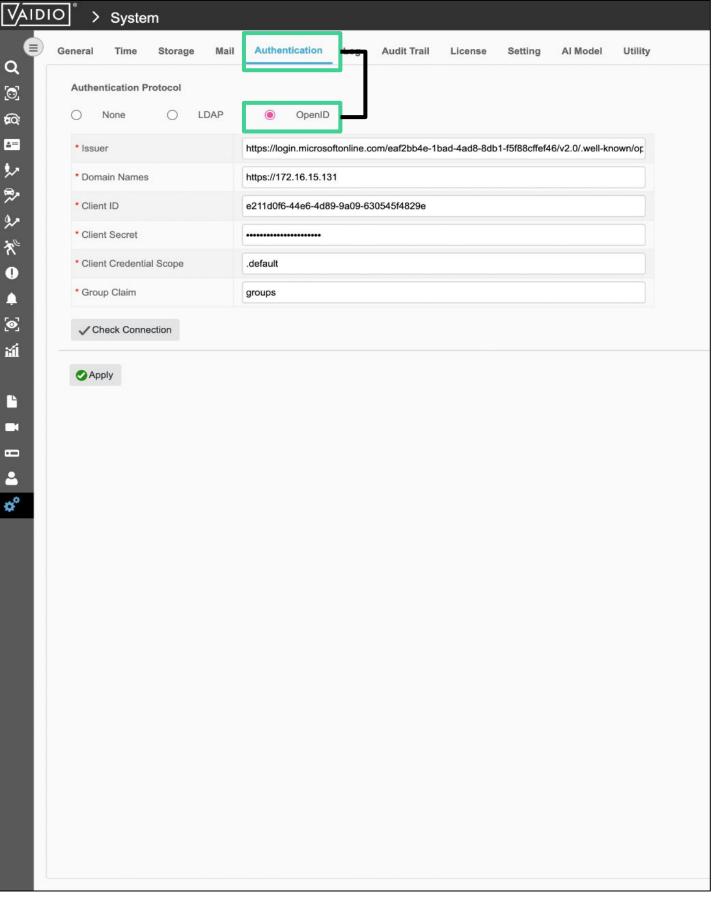


User Name	Last Active	Authentication	User Group	ŵ
gfister gaelle.pfister@ironyun.com		Local	Administrator	. ***
adminISC maxwell.marrone@ironyun.com		Local	Administrator	
ksun kristen.sun@ironyun.com	3 hours ago	Local In User >	User Account, imported LDAP	***
ibatuello isabella.batuello@ironyun.com	7 days ago		be included in the user list.	•••
IYsales sales@ironyun.com	5 days ago	Local Users imp	oorted via LDAP will have an	***
mplaton maxim.platonov@ironyun.com		Local	ntifier under <u>Authentication</u> .	
paulsun paulsun@ironyun.com		The state of the s	ers can use their original e or account name and	***
Steve steve.britt@ironyun.com	7 days ago	Local	to login to Vaidio.	***
sandy.wang@ironyun.com		Local	Administrator	***
user0001 user0001@ironyun.com		Ldap	DaveDemo	***

SSO: CONFIGURATION

- Single Sign-On with Microsoft Entra ID (formerly Azure AD) is available starting from Vaidio 7.1.0
- Go to <u>System</u> > <u>Authentication</u> > select <u>OpenID</u> for Authentication Protocol
- User is required to log in to their Entra ID account and use the available information to link Entra ID to Vaidio
- For more information and detailed steps to fill out the fields in Vaidio and Entra ID, please refer to the Single Sign-On (SSO) User Guide

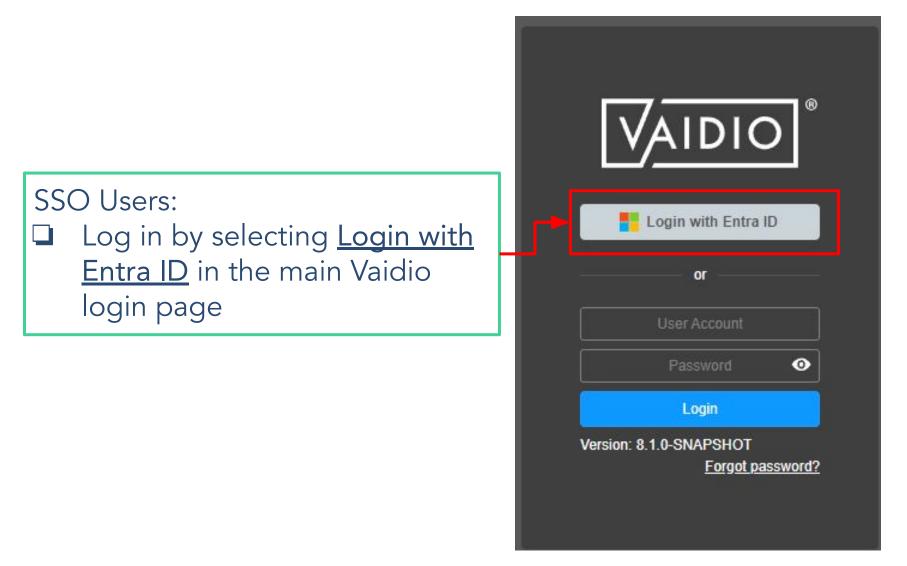




SSO (CONT.): LOGIN TO VAIDIO

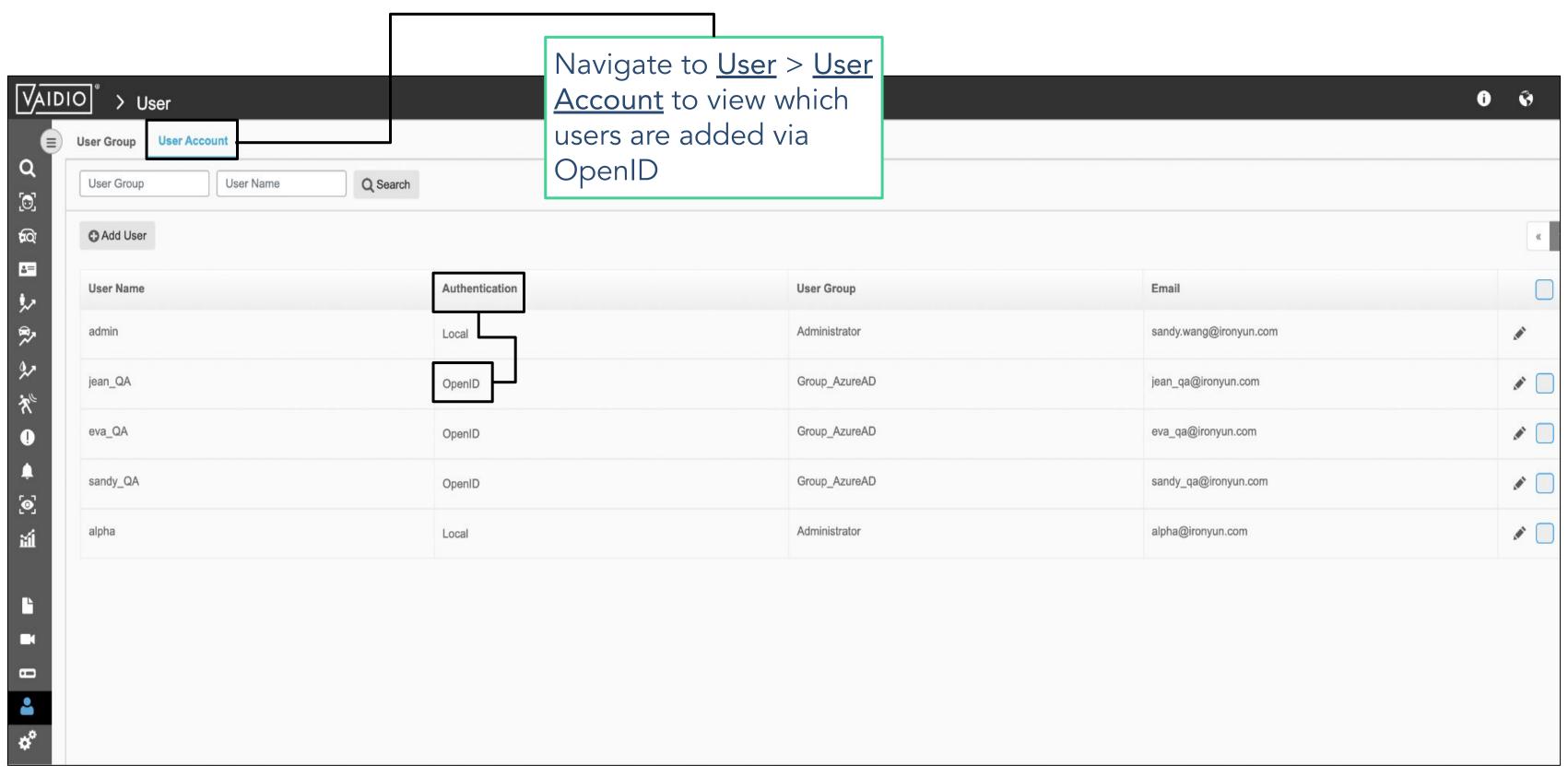


- Once Entra ID and Vaidio are linked, the Login page will display a Login with Entra ID button Users can login to Vaidio with their Entra ID credentials



SSO (CONT.): USERS IN VAIDIO





UPLOAD SSL CERTIFICATE



Upload SSL Certificate in <u>System</u> > <u>Setting</u>.

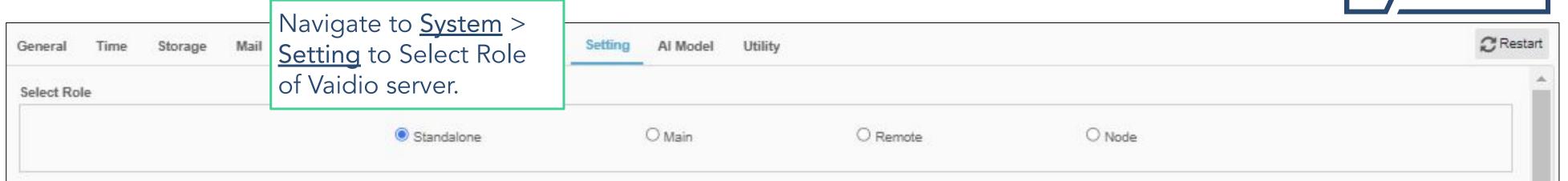
File Types Accepted:

<u>File</u>	File Extension
Private Key	.key
Public Certification Key	.crt, .cer, .pem
Certification Chain	.crt, .cer, .pem



VAIDIO SERVER ROLE





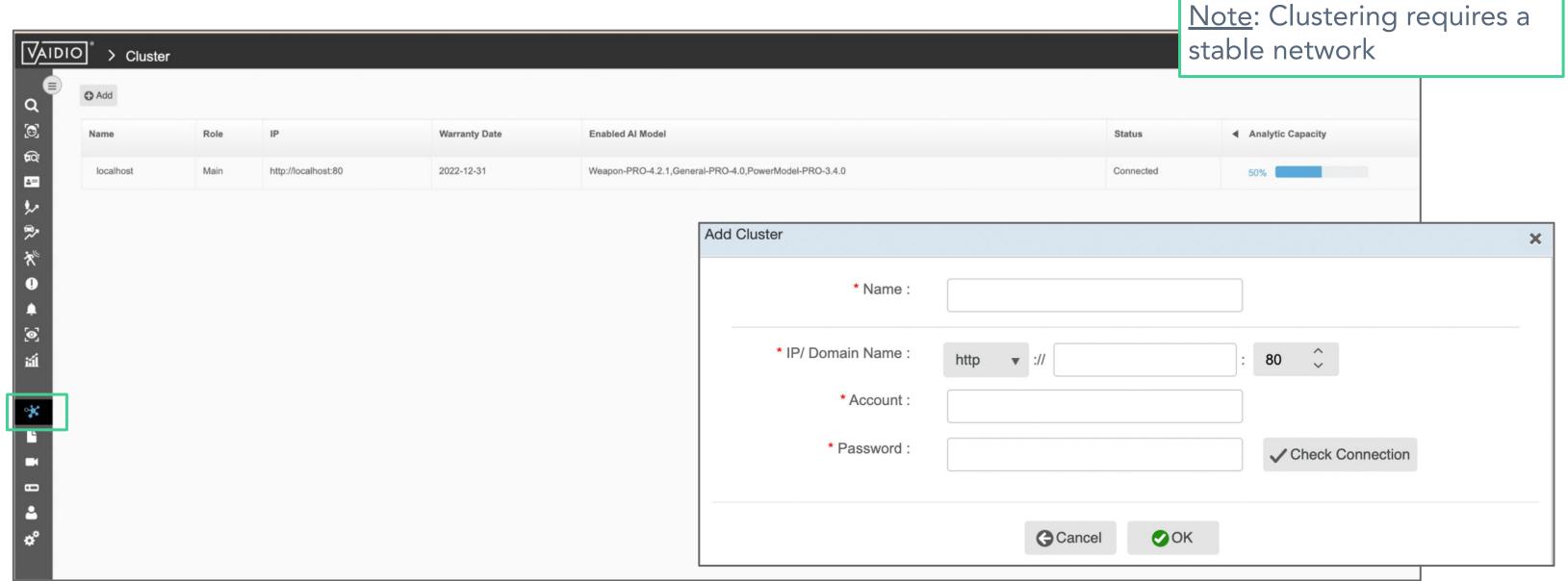
□ Standalone is the default setting unless the Admin user clusters the servers or connects them to Command Center.

	<u>Vaidio Page</u>	<u>Vaidio Filter</u>	Edit FR List	Edit LPR List	<u>Indoor Map</u>	Connect to Vaidio App & Vaidio Cam App	Connect to Command Center
Standalone	X	X	0	0	0	0	X
Main	0	0	0	0	0	0	X
Remote	X	X	X	X	X	X	X
Node	X	X	0	0	0	X	0

VAIDIO SERVER ROLE (CONT.): CLUSTERING



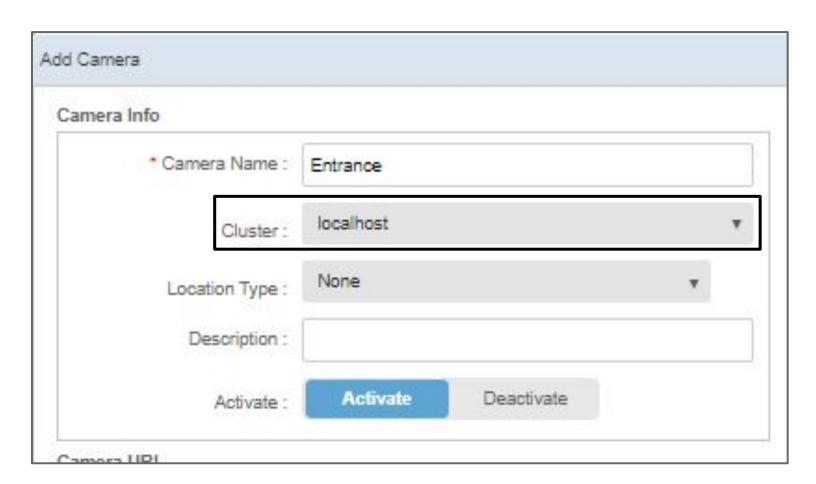
- \Box When clustering servers, the user can add cameras, activate analytics, and view detection results for Remote servers via the Main server.
 - ☐ The user cannot access analytics or cameras from Remote. Only the System tab is enabled.
- When a standalone server joins a clustered Vaidio, the standalone server configuration will automatically migrate to the main server.
- Set up the user's Main server and Remote server(s) by:
 - 1. Selecting the appropriate role on the Settings page
 - 2. Linking the remote server(s) to the Main server
 - a. A new tab called Cluster becomes available on the Main server.



Return to System Configuration

VAIDIO SERVER ROLE (CONT.): CLUSTERING

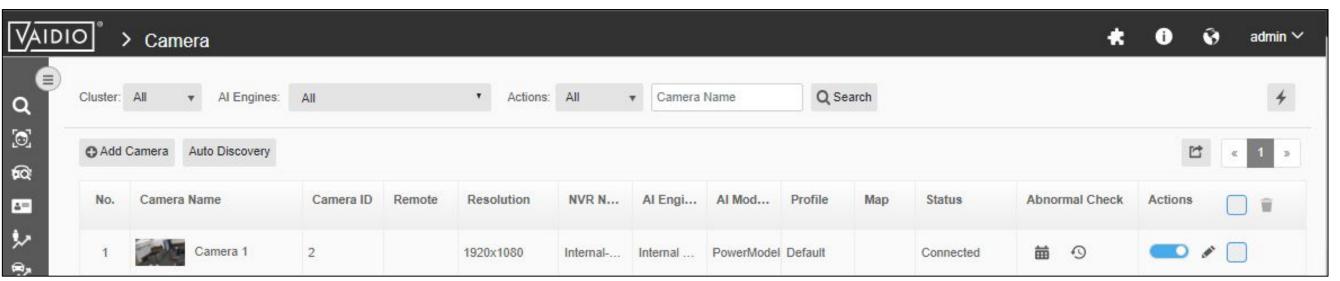




<u>Camera</u> > <u>Add Camera</u>: Select the server of the camera (consider which servers have which analytics).

<u>Note:</u> The standalone server configuration will automatically migrate to the main server when the standalone server joins a clustered Vaidio.

Note: If a camera is added to the wrong server, it cannot be moved and must be added again.



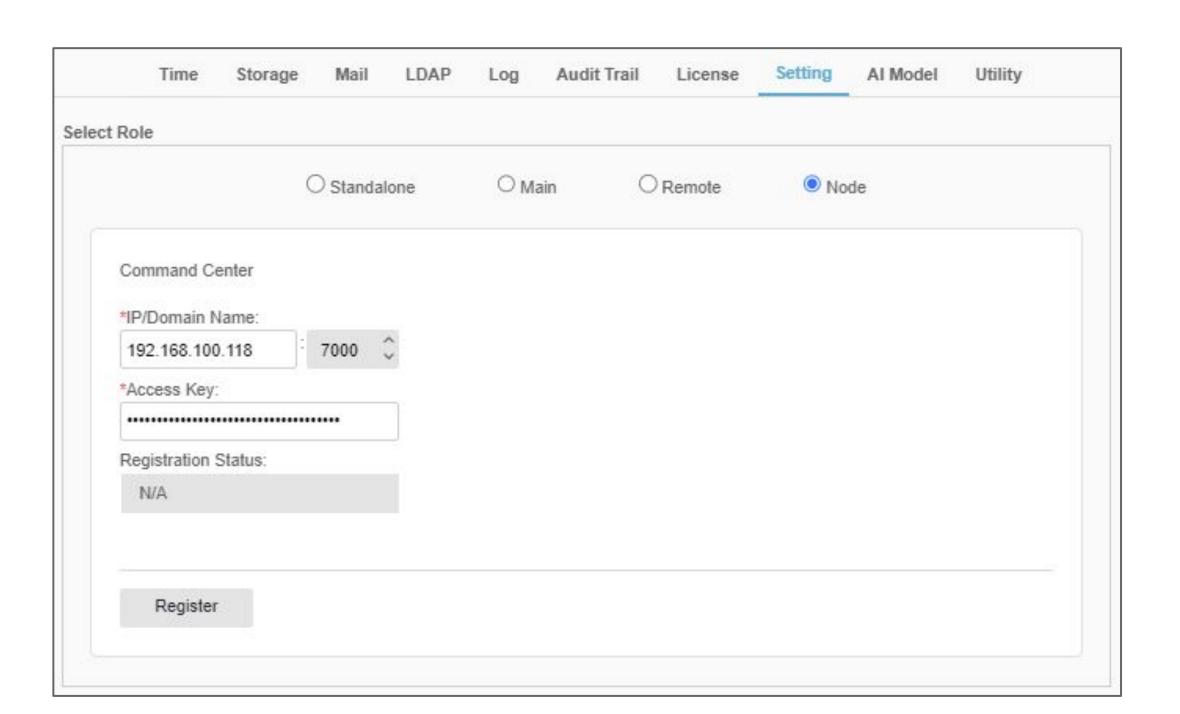
<u>Vaidio Filter</u> allows users to select cameras based on the servers in the cluster; e.g., select only the cameras that are connected to server B in a cluster of servers A-F.

VAIDIO SERVER ROLE (CONT.) - NODE



- Command Center can only connect with a Vaidio Core server in the Node role
- Fill in the Access Key from Command Center

Please refer to the <u>Vaidio Command</u> <u>Center User Guide</u> for more information.



VIDEO PLAYBACK & ALERT SOUNDS



	General 1	Time	Storage	Mail	LD	Log	Audit Trail	License	Setting	Al Model	Utility	Na	avigate to <u>S</u> y	<u>ystem</u> > <u>S</u>	etting.		€ Restart
	Select Role					0	Standalone		0	Main			Remote	○ Nod	е		
the O Mod obje	video ple ON / O bject Track de to enab ct tracking _ive View	king le	—	Orop Corre	yback leng upted Fran acking Mod	ne:	Disable live st		tics for more	e efficient vide	yback ana	dura alytic	e video clip tion for video events				
	Sound License Plate	e Reco	gnition	Intr	Alert Sour		Default Sound1 Default Sound1		▼ ²	Loop :	1 🗘	>	Upload Sound Upload Sound		the Inti	e the sound for rusion & Alert ashboards	
					E	nter LPR patter	n					Only support A 9 @ ?. Please use comma to separate e A: Alphabet 9: Numerical digit			te each pattern.		

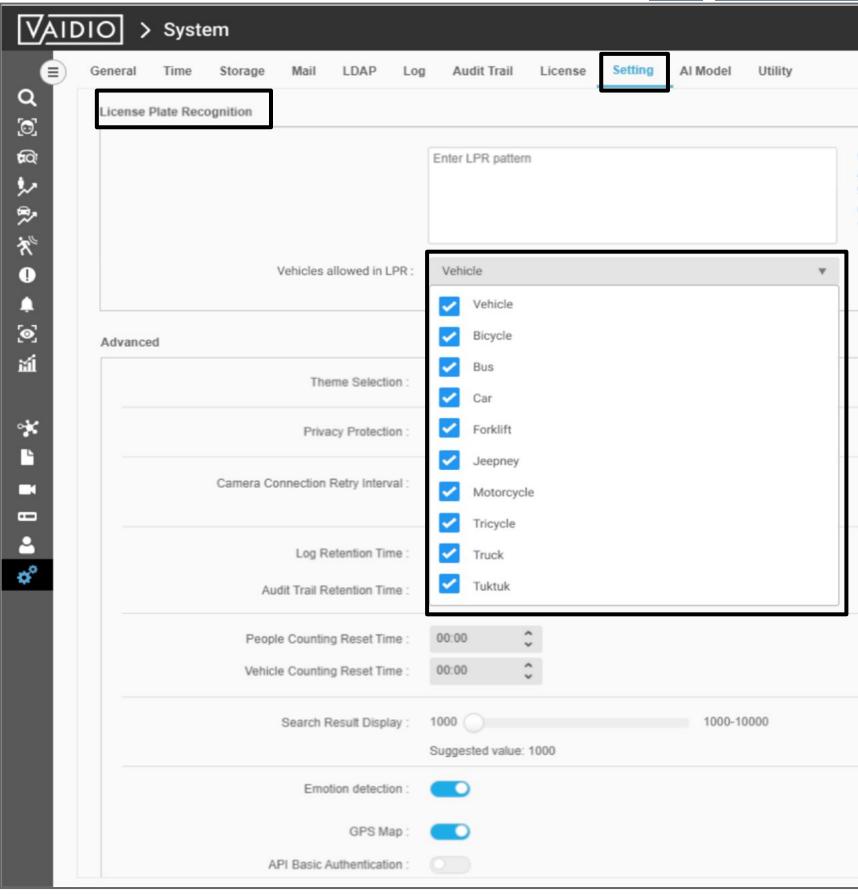
Return to <u>System Configuration</u>

LPR PATTERNS AND VEHICLE TYPES



Navigate to <u>System</u> > <u>Setting</u>.

- LPR Pattern (Optional)
 - Used when looking for plates with a specific pattern.
 - □ 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.
- Vehicles Allowed in LPR
 - Enable specific type(s) of vehicle for LPR. Some vehicle types may be uncommon or may not have a license plate.



Return to <u>System Configuration</u>

ADDITIONAL SETTINGS

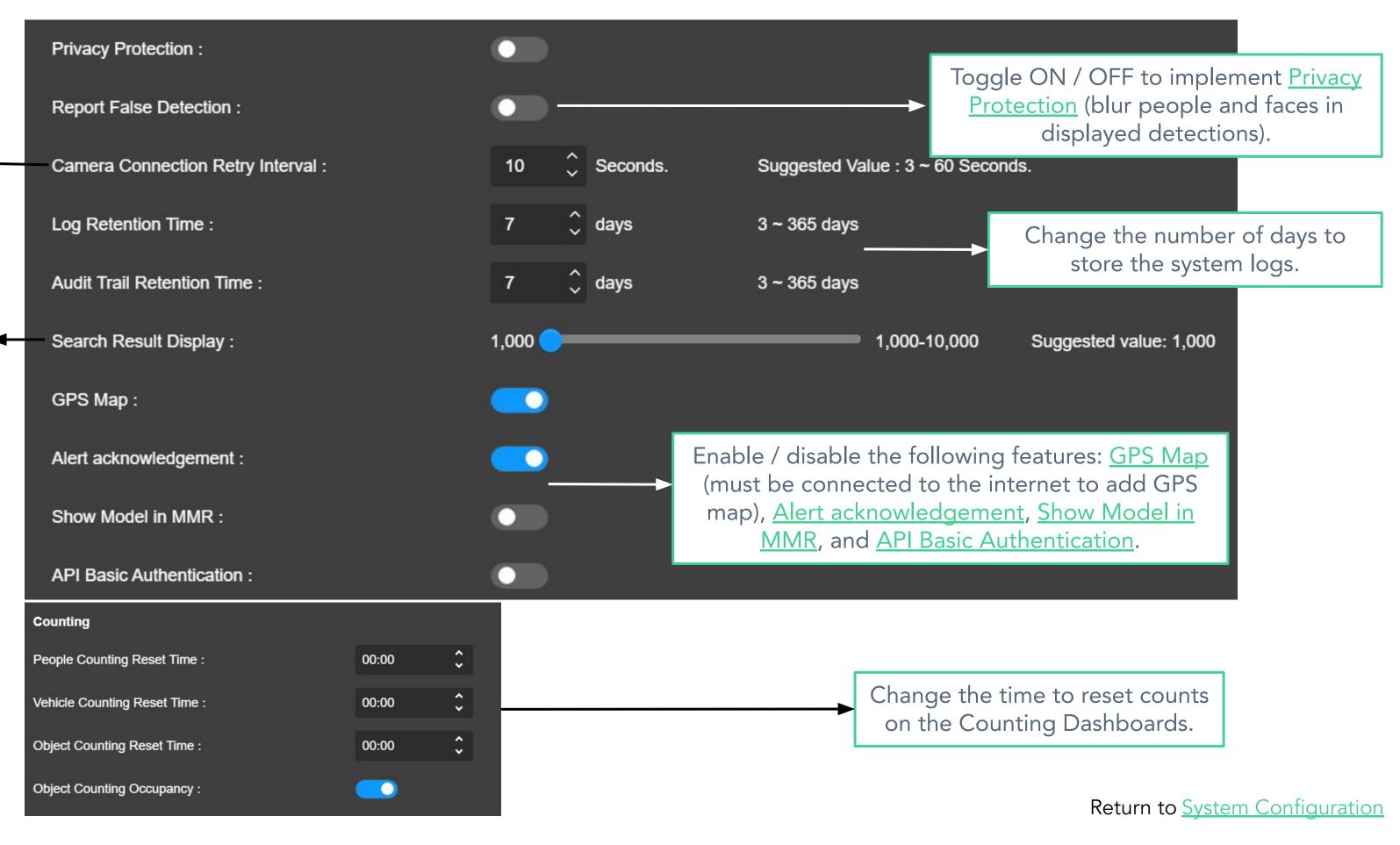


Toggle ON / OFF to enable the ability to report objects that were falsely detected or missed on an event. For more information on Report False Detection, please view the Vaidio Core Functions

User Guide.

Increase the number of results displayed when searching.

Note: When Vaidio searches and display more results, the search can take longer.

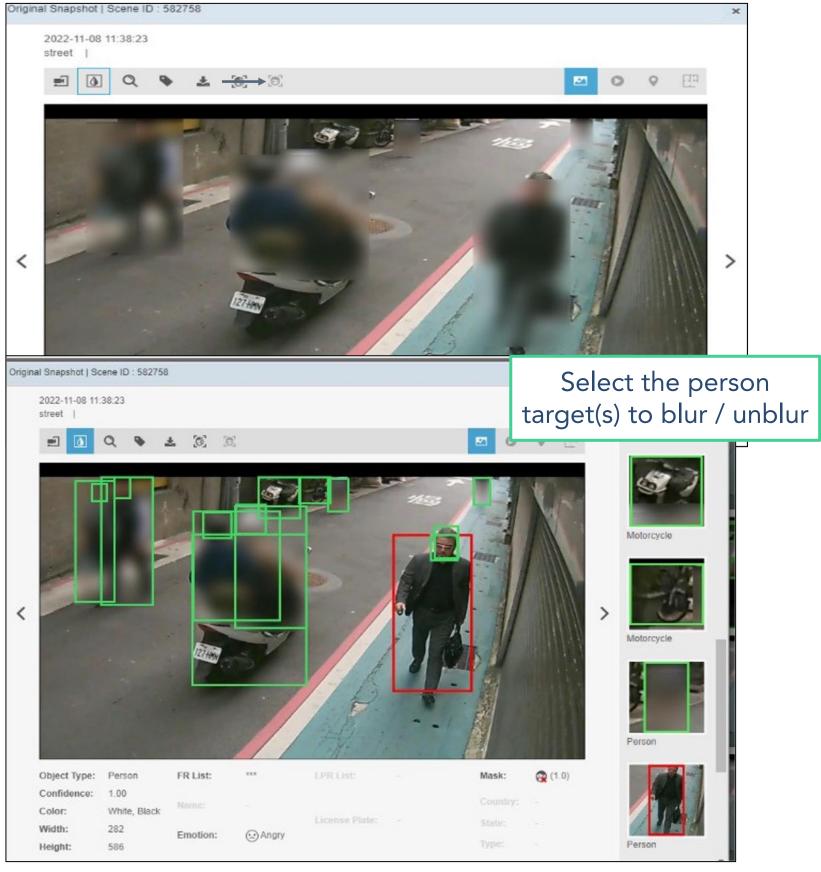


PRIVACY PROTECTION

- When <u>Privacy Protection</u> is ON, detected person(s) are blurred in search & alert results for all cameras activated in the server
 - Ex. Blurred detail page, thumbnails, exported data thumbnails
- Restrictions: no video playback, no live view
 Images processed before turning on Privacy
 Protection cannot be retroactively blurred
 Admin and Users with <u>Privacy Protection Unblur</u>
 permission can unblur faces in the detail page
 - The user has permission to select <u>all</u> or <u>one</u> detected person once when clicking the unblur button
- With Privacy Protection, the system requires double storage (please refer to the Storage Calculator on the Partner Portal)
- Turning ON or OFF Privacy Protection will restart the system

Please contact a Vaidio representative if project use case requires head blurring.

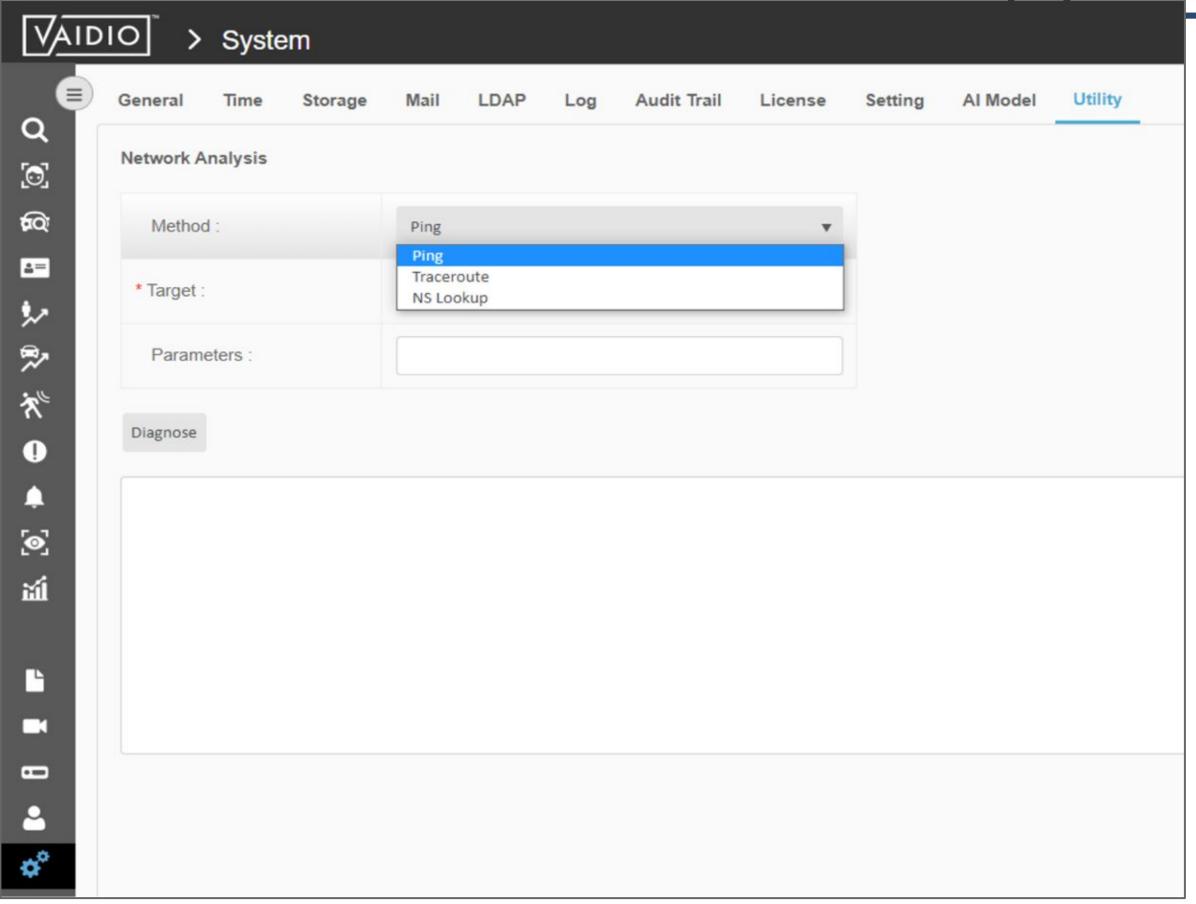




UTILITY

VAIDIO

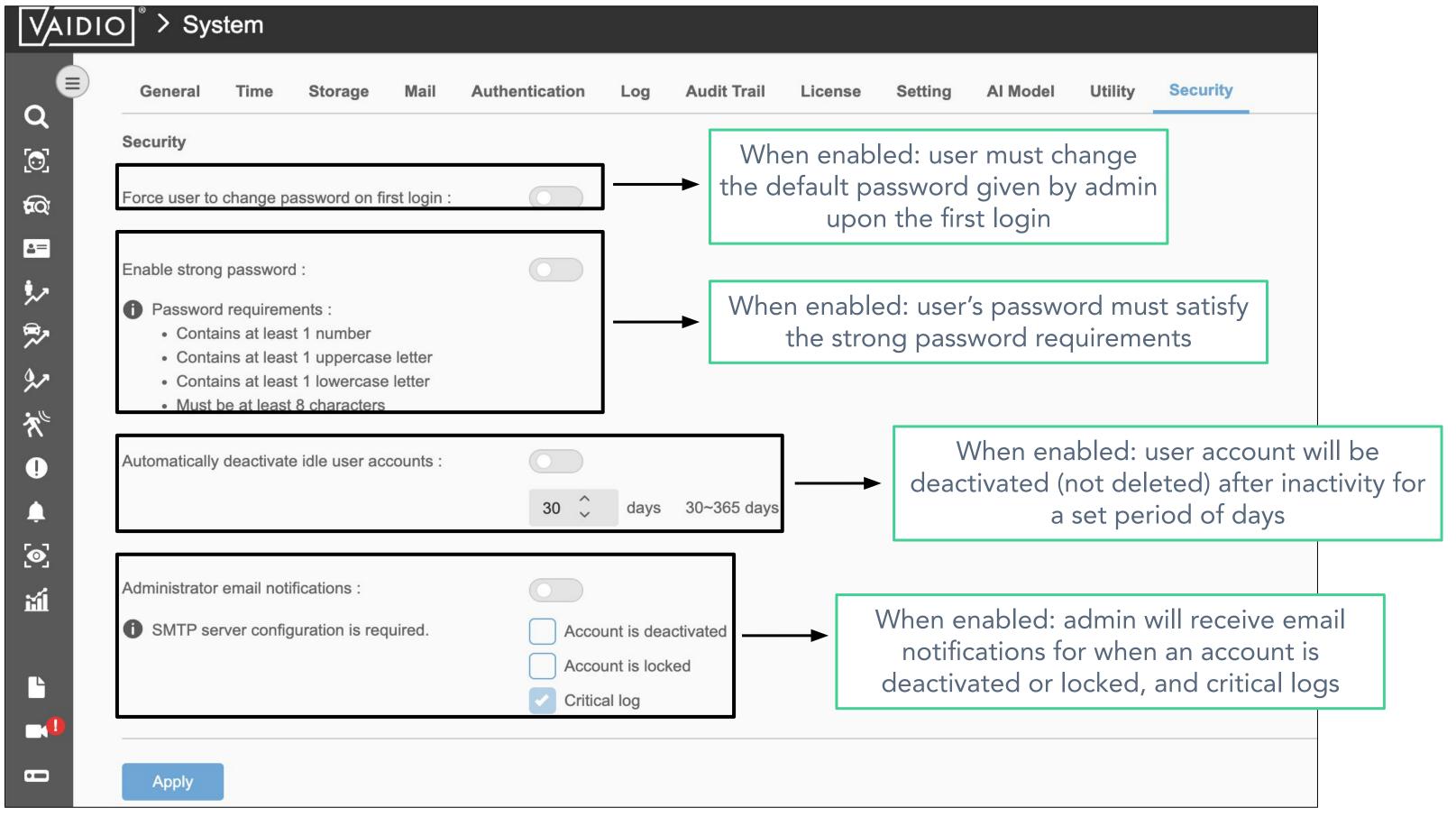
- Diagnosis tool for network analysis
- Methods available:
 - Ping
 - Traceroute
 - NS Lookup



SECURITY

Note: Security page appears only for Admin users (not Co-Admins).





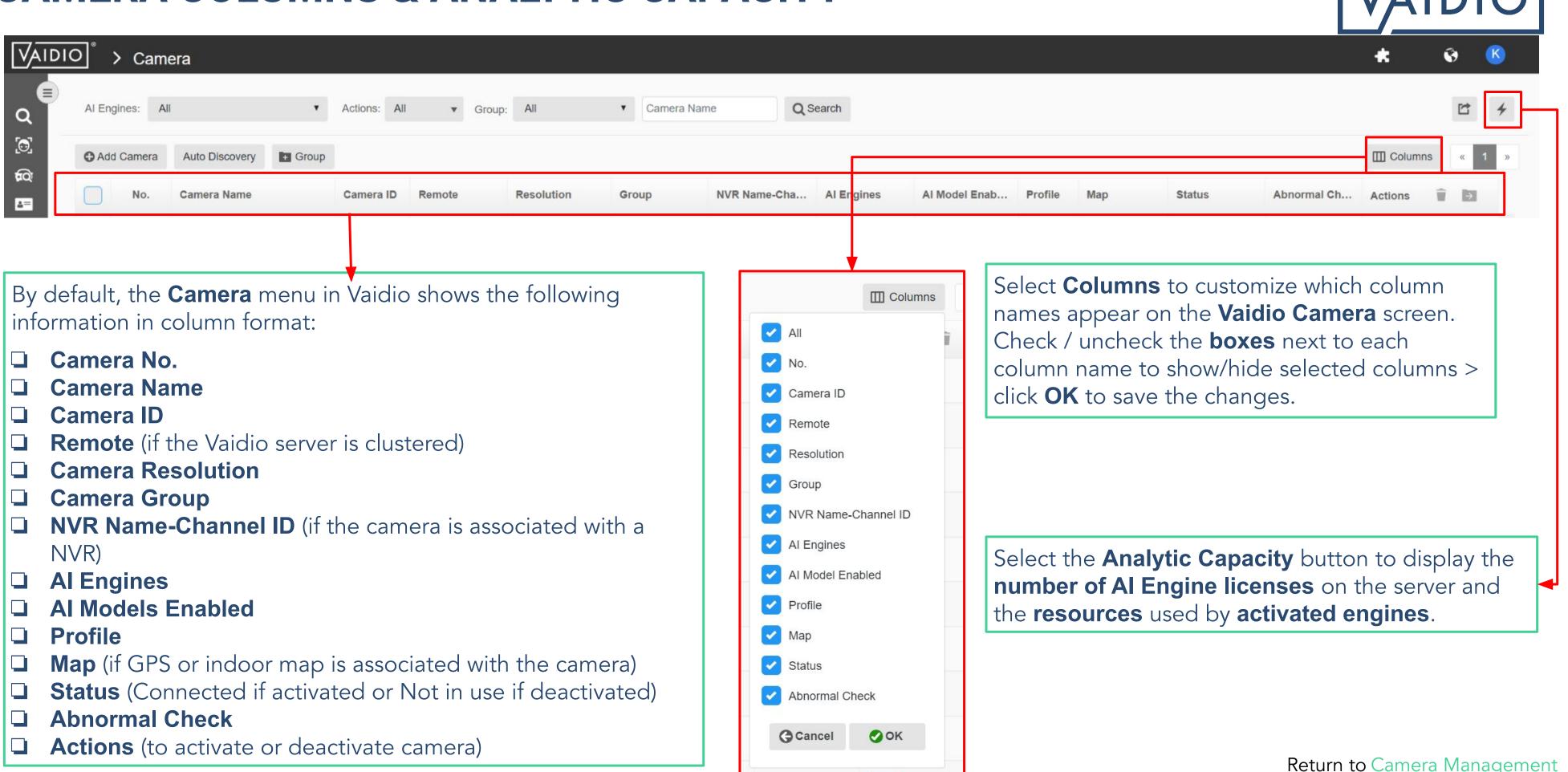


CAMERA MANAGEMENT

- Camera Columns & Analytic Capacity
 De
- Add New Camera
- Add Camera to Camera Group
- Camera Auto Discovery
- Camera Auto Configuration
- Add GPS Map to Camera
- Add Indoor Map to Camera
- Results on GPS Map

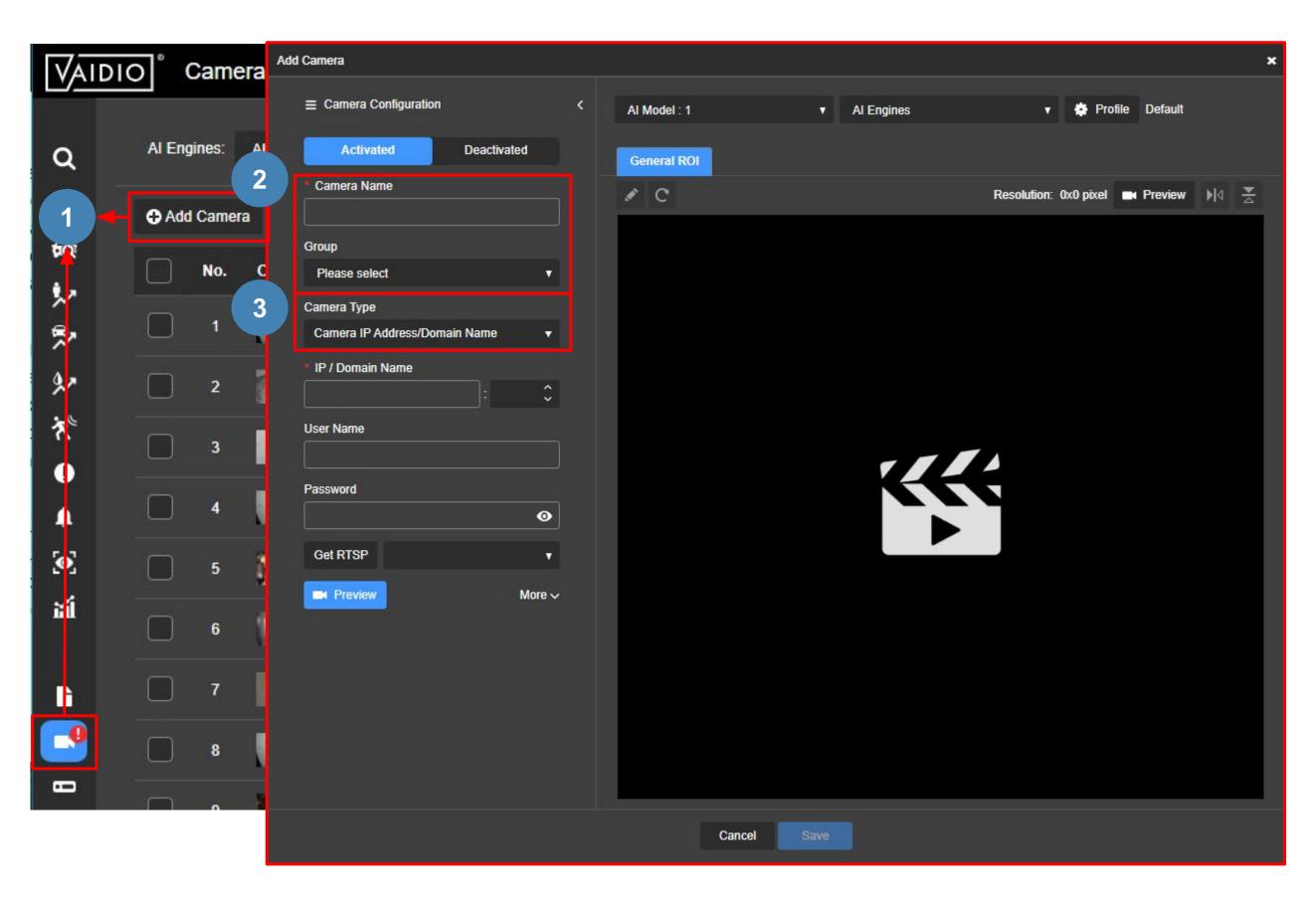
- Detail Extraction
- Select Al Model
- Configure Camera Profile
- Define General ROI
- Activate Al Engine(s) + ROI
- Camera Health Management

CAMERA COLUMNS & ANALYTIC CAPACITY



ADD NEW CAMERA





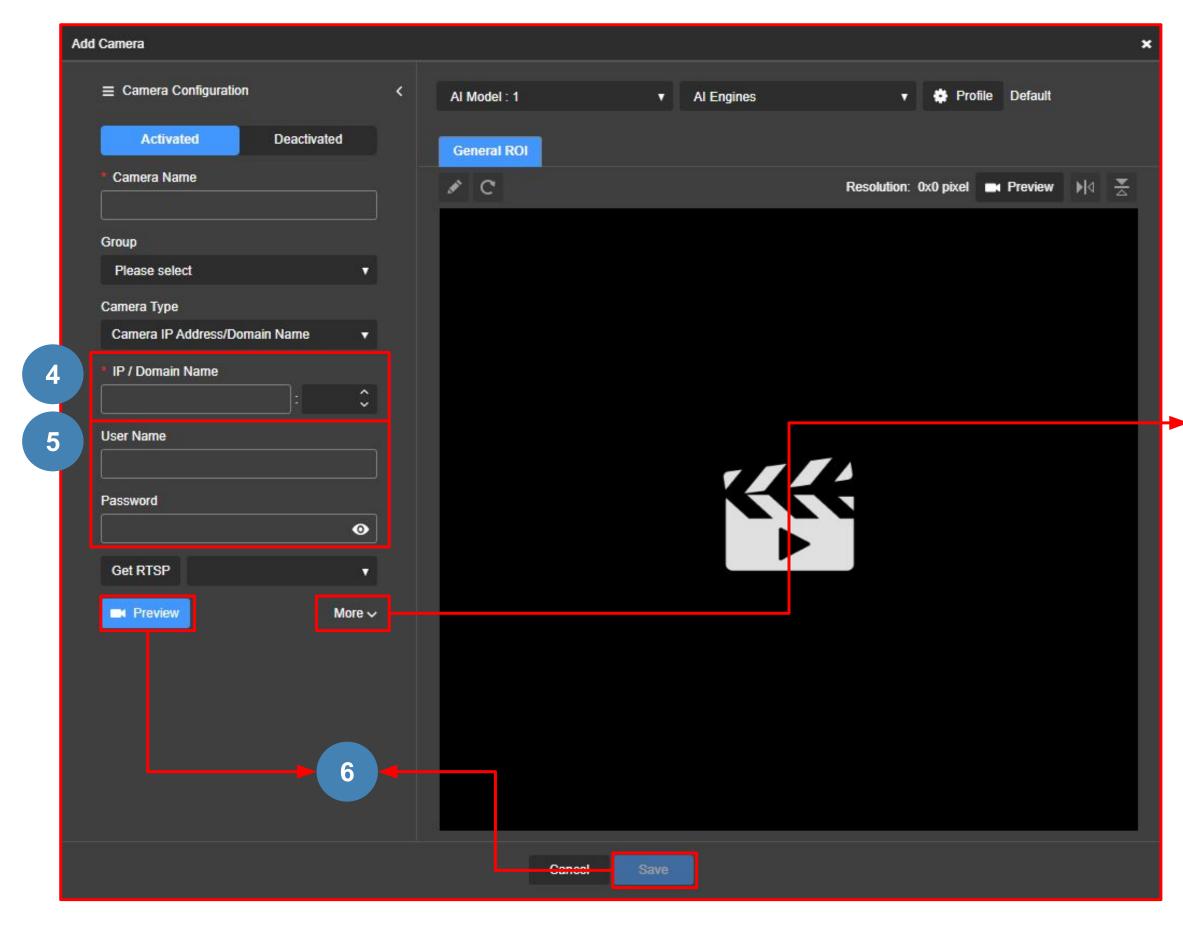
- 1. Camera > Add Camera to display the Camera Configuration screen.
- 2. Enter a **Camera Name** and select a **Group** from the drop-down menu (if previously configured. See <u>Add Camera to Camera Group</u> for information on adding cameras to a **Group**).

Note

- ONLY the following special characters are allowed in Camera Names: . _ ,
- 3. Select a **Camera Type**. Vaidio supports **five** types of camera sources:
 - a. <u>Camera IP Address</u>
 - b. RTSP
 - c. Camera APP
 - d. <u>External</u>
 - e. <u>Video File</u>

ADD NEW CAMERA (CONT.)





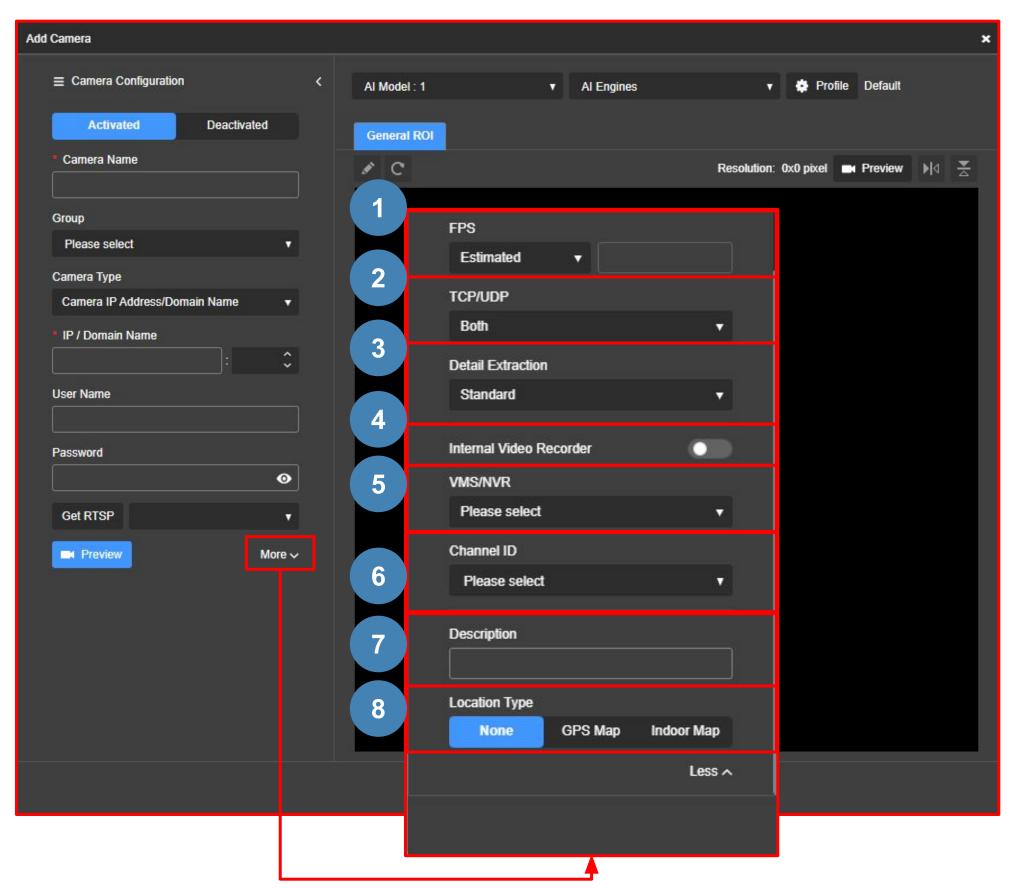
- 4. Enter an **IP/Domain Name** and **Port Number** (see <u>Add New Camera URL Types</u> for more information on URL types and port numbers).
- 5. Enter a **User Name** and **Password** affiliated with the selected IP/Domain name.
- → 6. Click **Preview** to view configured camera, then click **Save** to complete camera configuration.

Note

For additional configurations, select **More** (see <u>Add New Camera (Cont.)</u> for information on additional configurations).

ADD NEW CAMERA (CONT. 2)





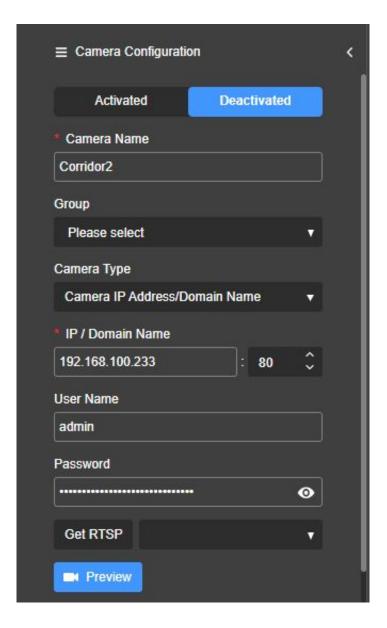
- Frames Per Second (FPS): From the drop-down menu, select Camera,
 Estimated, or Manual. If selecting Manual, enter a number in the FPS field.
- 2. Transmission Control Protocol (TCP) / User Datagram Protocol (UDP): From the drop-down menu, select TCP, UDP, or Both depending on network environment and application needs (i.e., TCP for reliability or UDP for speed).
- 3. **Detail Extraction:** From the drop-down menu, select **Standard**, **Plus**, or **Ultra** for required level of detail (see <u>Detail Extraction</u>).
- 4. **Internal Video Recorder:** To record video within the Vaidio server, toggle on **Internal Video Recorder** (see <u>Internal Video Recording</u>).
- 5. VMS/NVR: From the drop-down menu, select an **added NVR** to link it to the camera and enable video playback (see <u>Add NVR</u>).
- 6. **Channel ID:** If a **VMS** or **NVR** is selected, select an affiliated **Channel ID** from the drop-down menu.
- 7. **Description:** Add if needed.
- 8. Location Type: Select either None, GPS Map, or Indoor Map (see Add GPS Map to Camera or Add Indoor Map to Camera for more information).

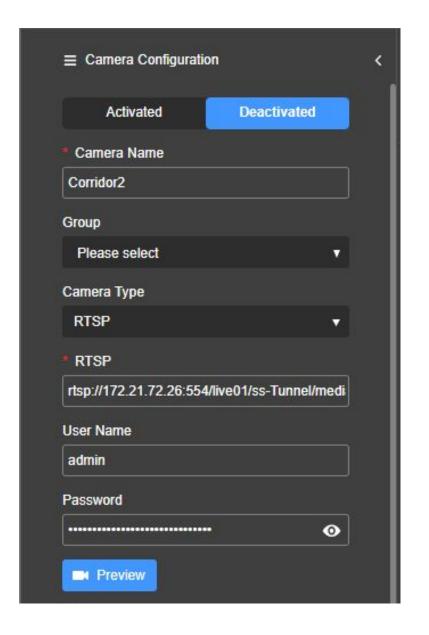
ADD NEW CAMERA - IP ADDRESS / RTSP



IP Address/Domain Name: For **ONVIF-enabled** cameras, enter the **IP/Domain Name**, **port** (default: 80), **User Name**, and **Password**. Click **Get RTSP** to select the **stream** > **Preview** to verify connectivity.

RTSP: For **non-ONVIF** cameras or when ONVIF is **disabled**, add the camera via **RTSP**. Click **Preview** to verify connectivity.



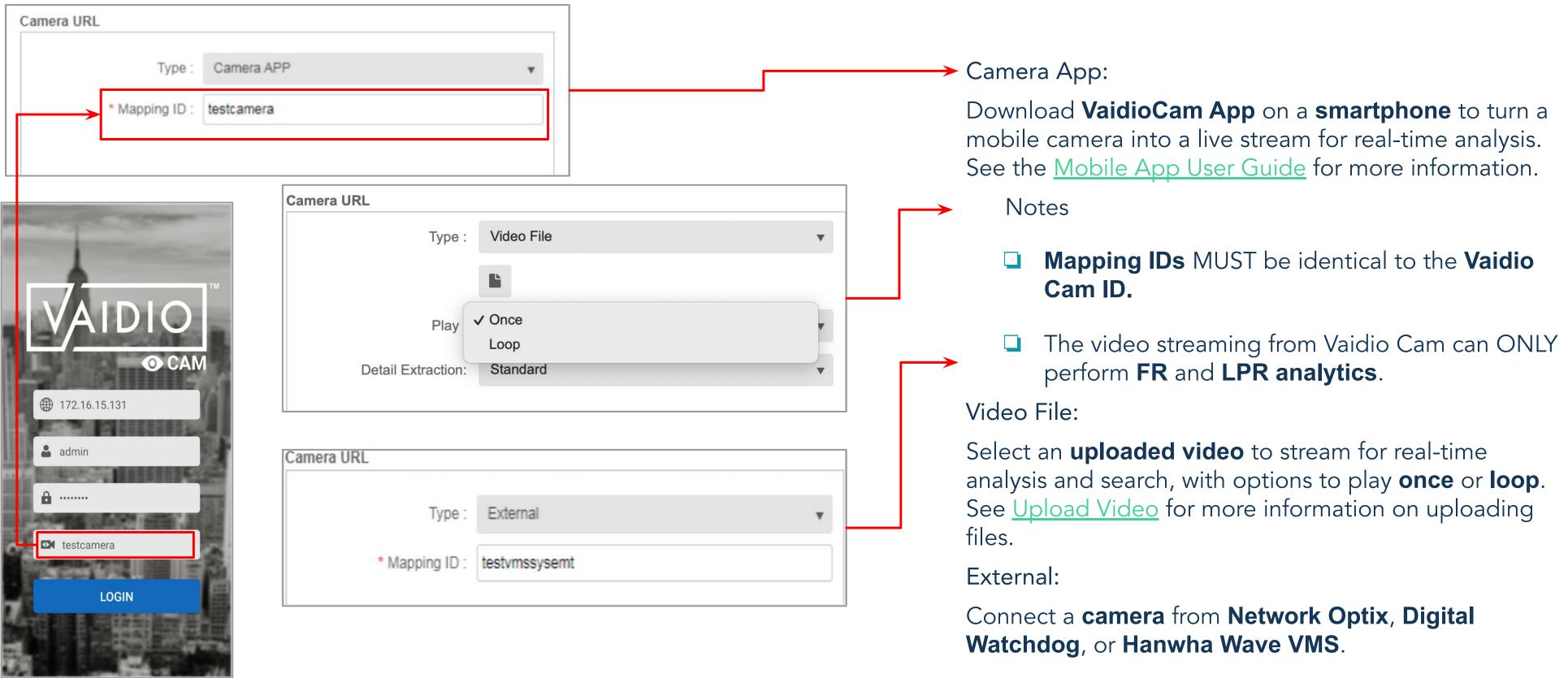


Note

Please refer to the Tech Support Guide to troubleshoot camera connection to Vaidio.

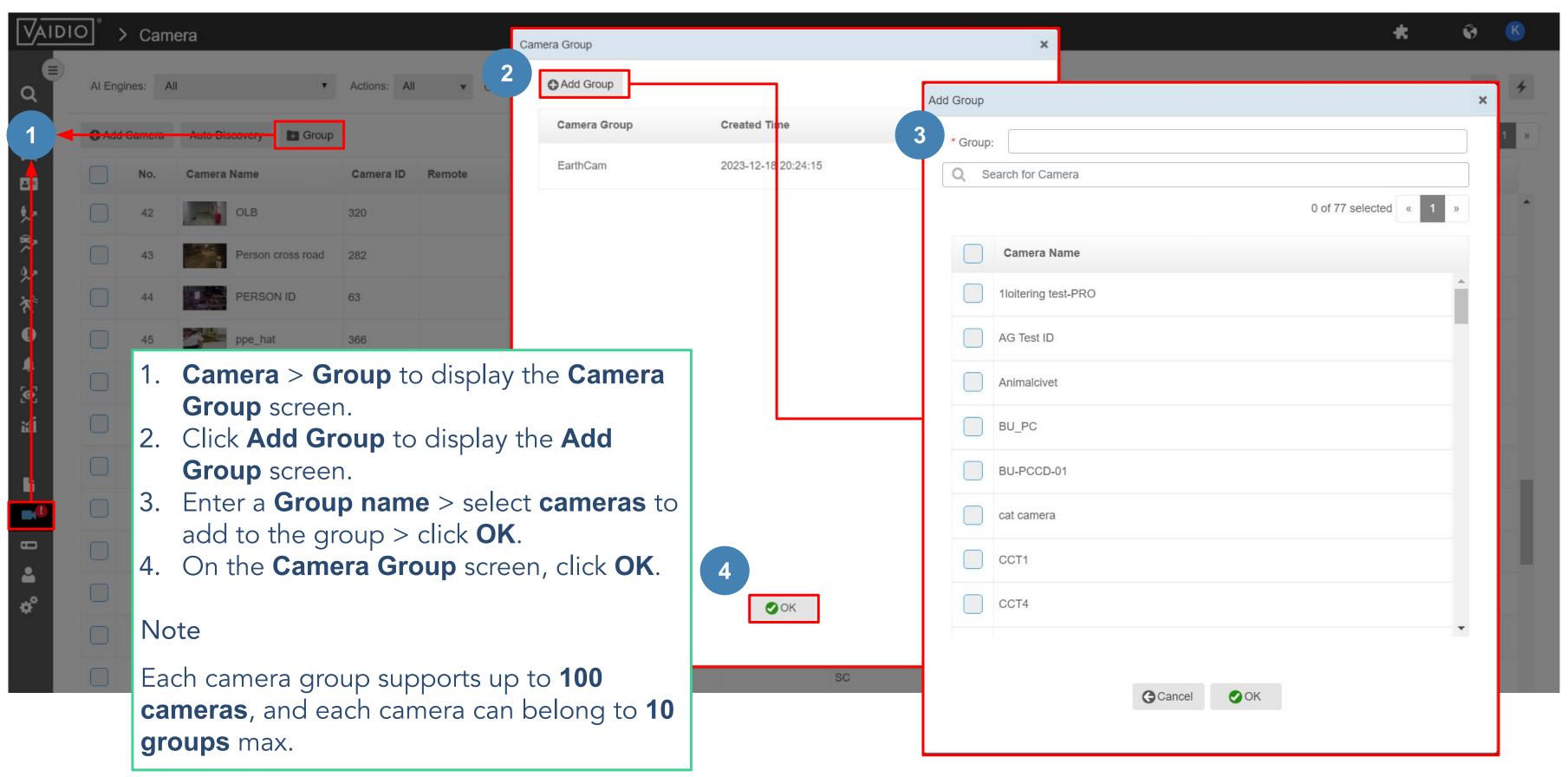
ADD NEW CAMERA - OTHER CAMERA SOURCES





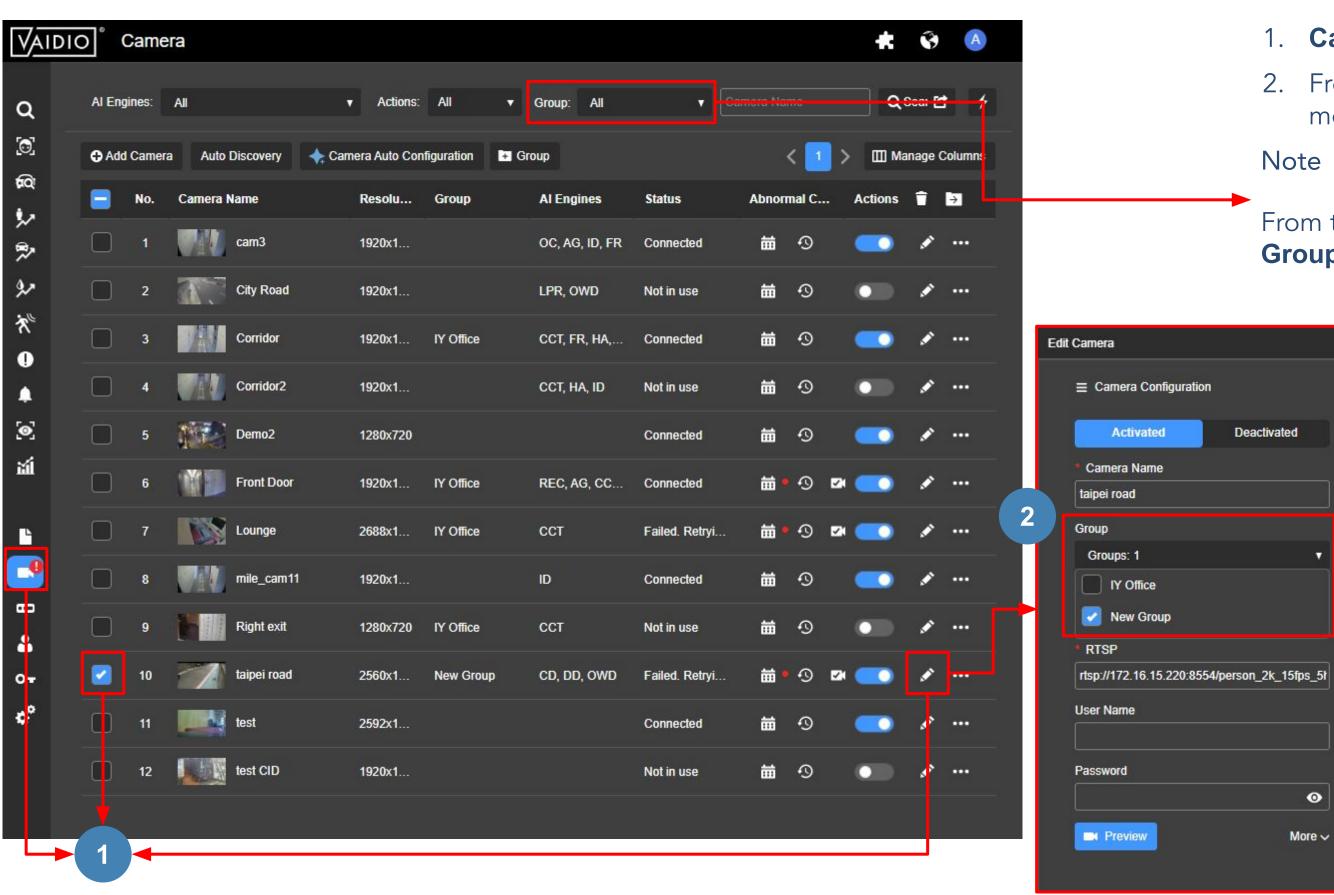
ADD CAMERA TO CAMERA GROUP





ADD CAMERA TO CAMERA GROUP (CONT.)





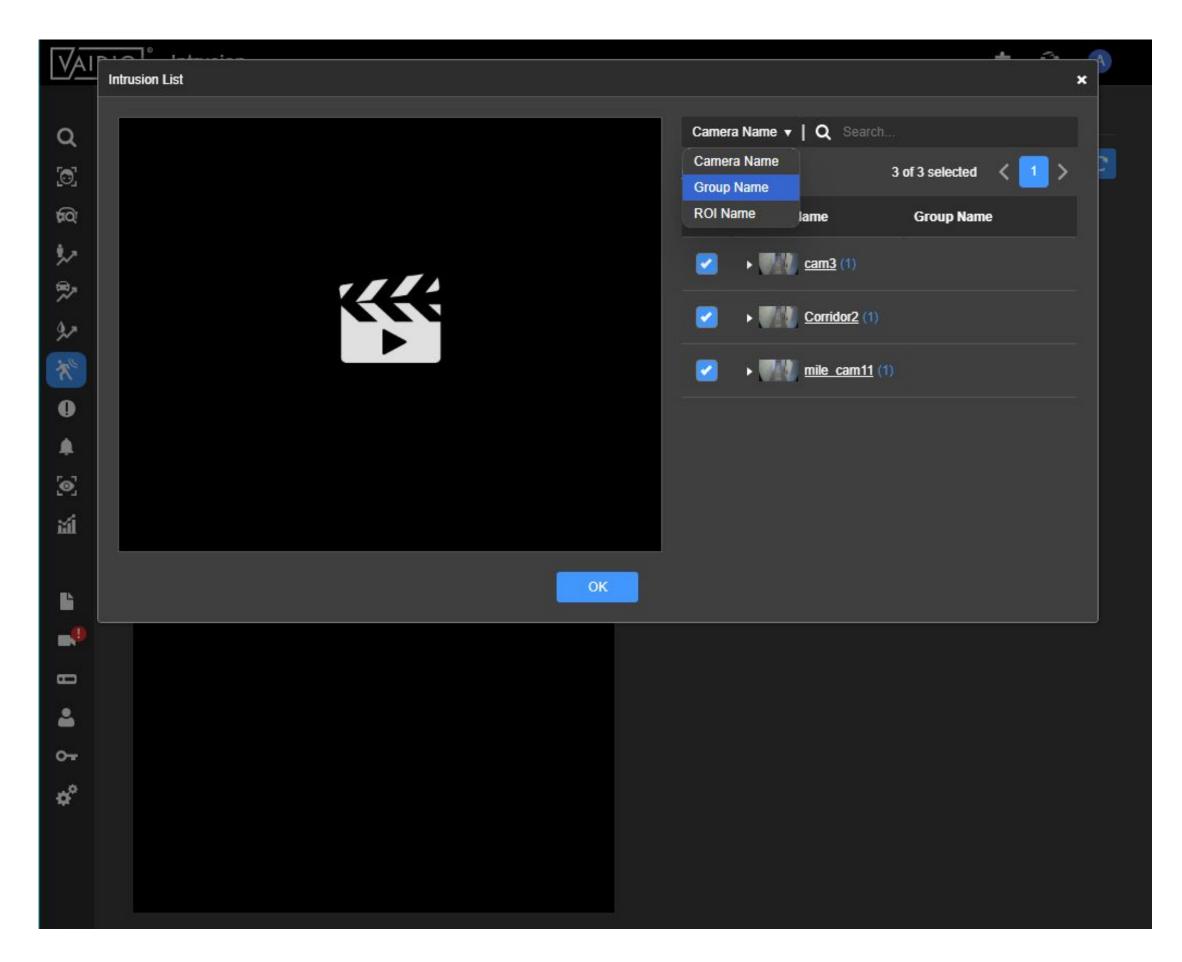
1. Camera > Edit to display the Edit Camera screen.

2. From the **Group** drop-down menu, select one or more **Groups**, then click **Save**.

From the **Camera** screen, search for cameras by **All**, **Group name**, or **Not in Group**.

ADD CAMERA TO CAMERA GROUP - DASHBOARD & HISTORY

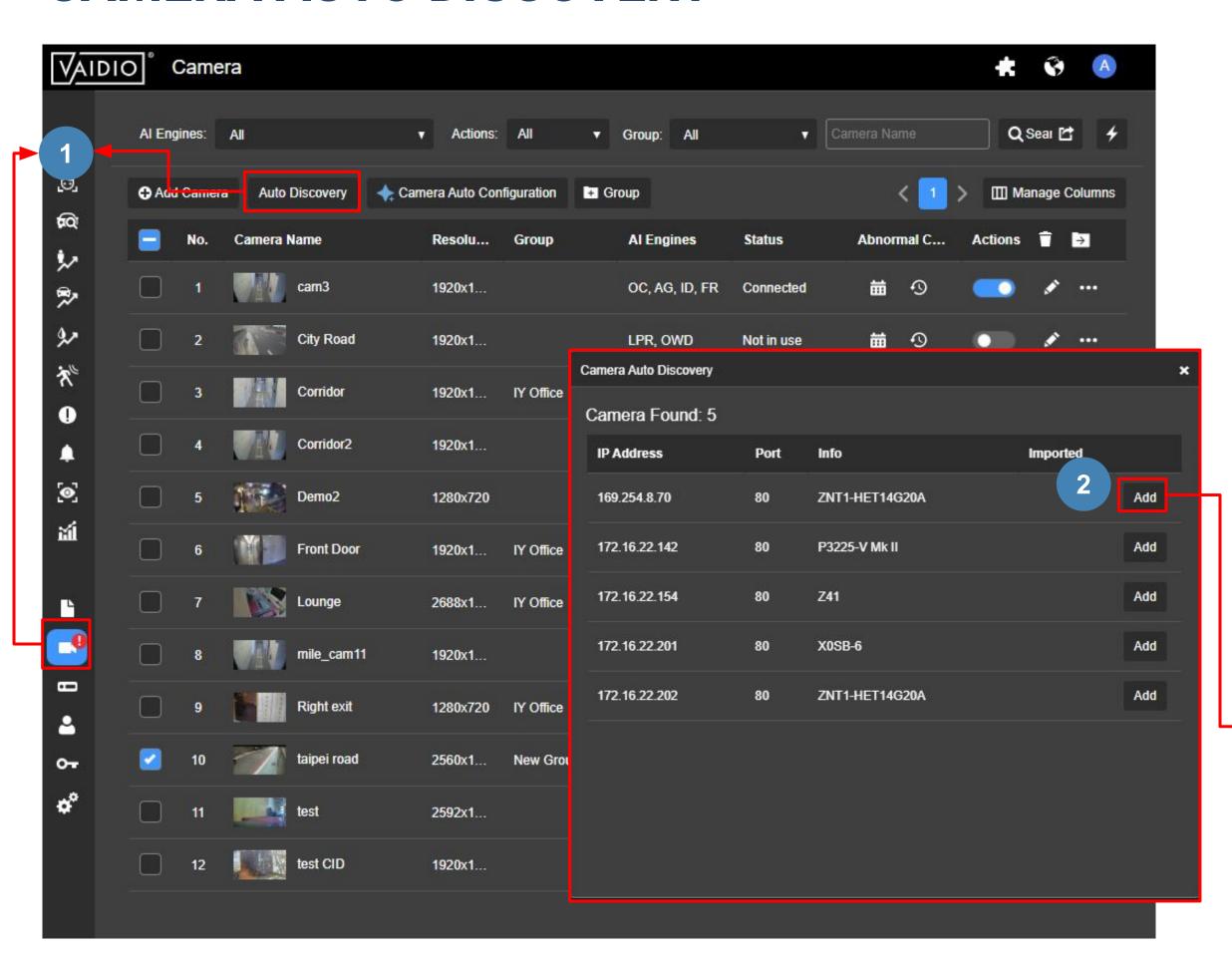




From the **Dashboard** and **History** tabs for each **analytic engine** and **Alert**, users can search results by **Group Name** for easier organization.

CAMERA AUTO DISCOVERY





1. Select Camera > Auto Discovery to display the Camera Auto Discovery screen.

Note

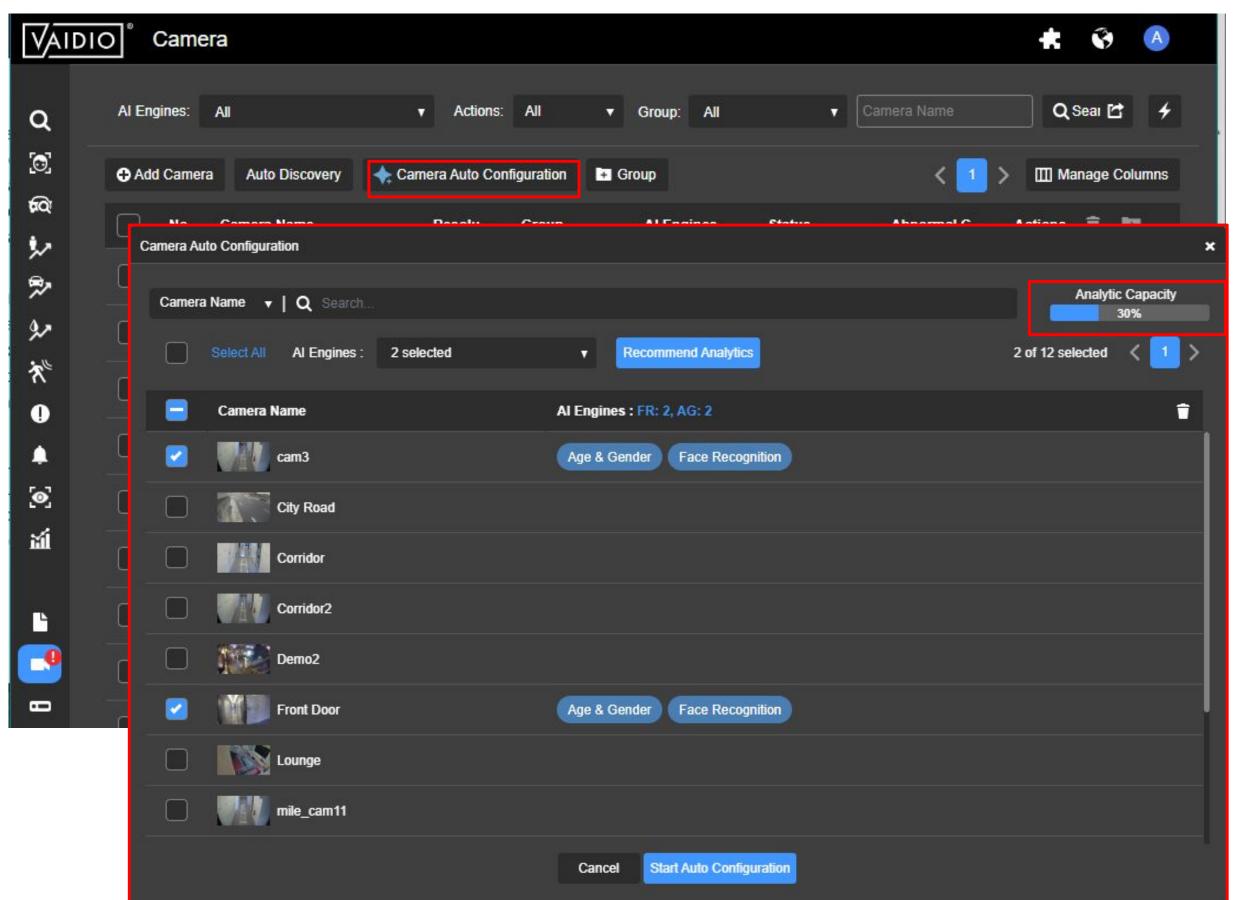
From the **Camera Auto Discovery** screen, automatically detect **ONVIF-compliant cameras** on the same network as Vaidio.

- 2. Next to a located camera, select **Add** to display a second **Camera Auto Discovery** screen.
- 3. Enter a **User Name** and **Password**, then click **OK** to add the camera to the Vaidio system.

Add Camera		
IP Address (port) :	169.254.8.70:80	3
Info :	ZNT1-HET14G20A	
* User Name :		
* Password :		•

CAMERA AUTO CONFIGURATION



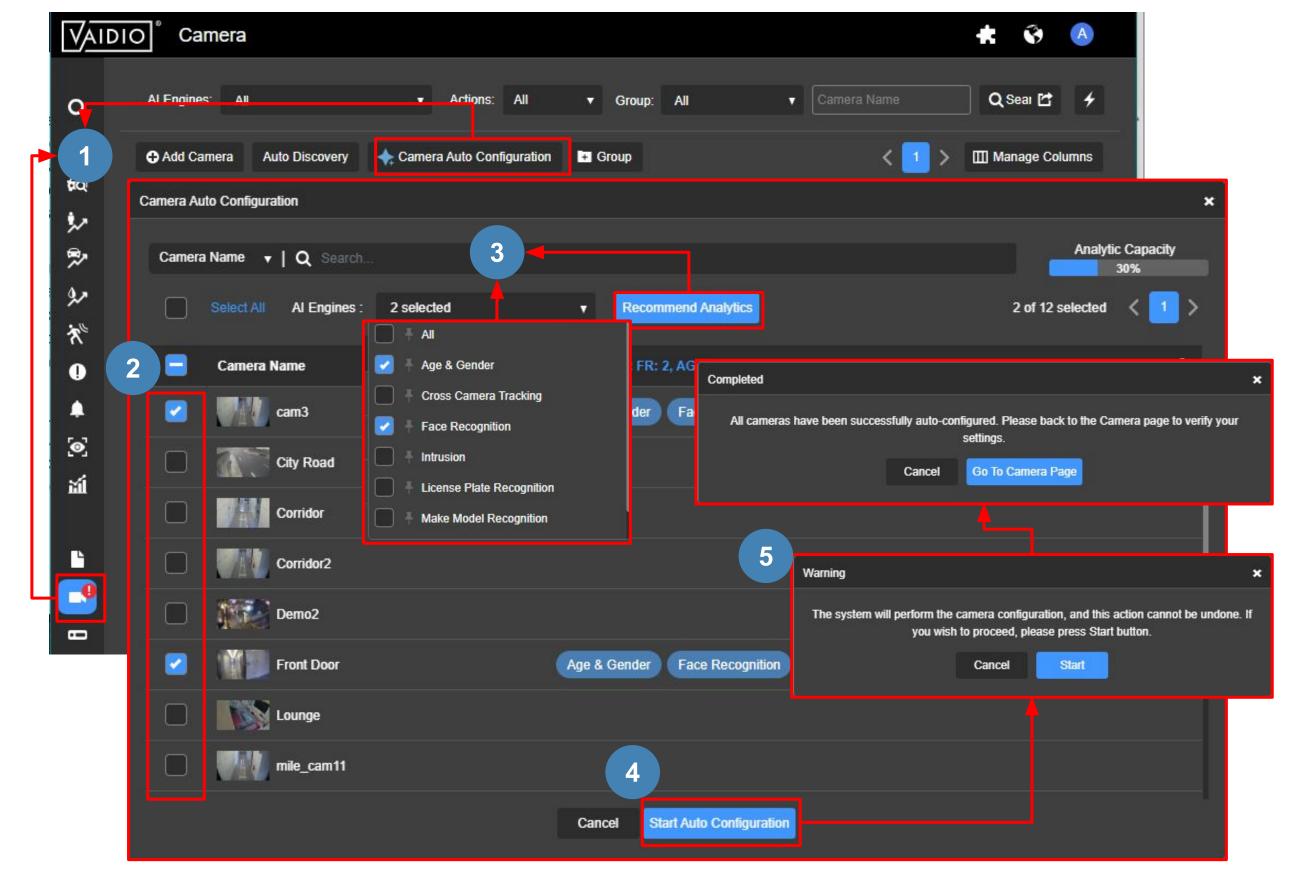


Camera Auto Configuration uses Al to recognize scenes and optimize the camera's Al Engine and settings automatically.

Notes

- Ourrent Analytic Capacity displays in the top-right of the Camera Auto Configuration screen. For more information on Vaidio Analytic Capacity, see Camera Columns & Analytic Capacity.
- Camera Auto Configuration applies ONLY to the following Al Analytic Engines:
 - Age & Gender
 - Cross Camera Tracking
 - Face Recognition
 - ☐ Intrusion
 - ☐ License Plate Recognition
 - Make & Model Recognition
 - Person Fall

CAMERA AUTO CONFIGURATION (CONT.)





Enable Camera Auto Configuration:

- 1. From the sidebar menu, select **Camera**, then select **Camera Auto Configuration**.
- 2. Select a **camera(s)** to auto-configure.
- 3. From the Al Engine drop-down menu, select one, more, or All available engines, then click Recommend Analytics to apply engines (e.g., Age & Gender Recognition, Cross Camera Tracking, Face Recognition, etc.) to selected cameras.

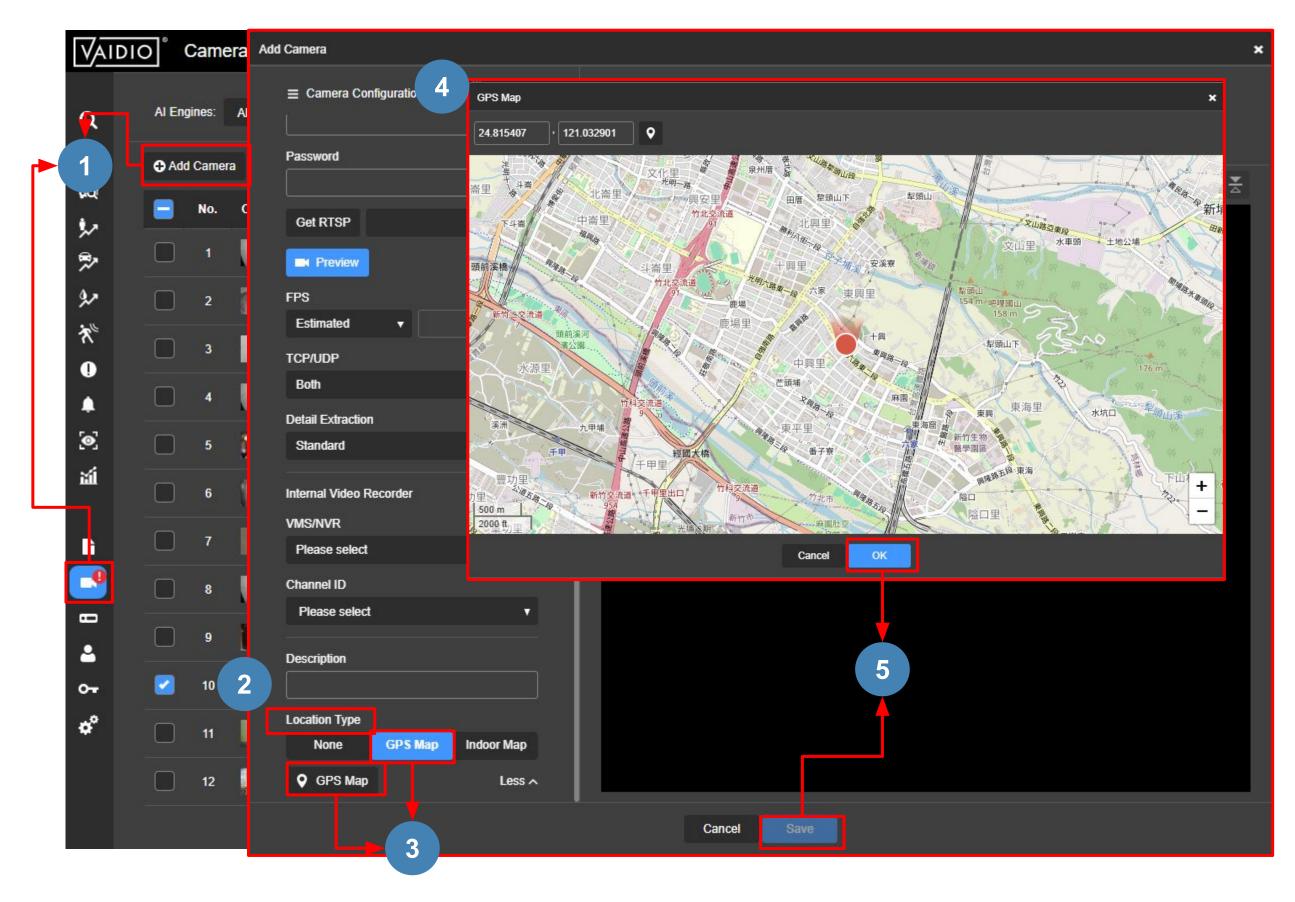
Note

Selected **AI Engine** names appear next to selected cameras after selecting **Recommend Analytics**.

- 4. Click **Start Auto Configuration** to display a **Confirmation** screen.
- 5. Click **Start** to display a **Completed** screen. Click **Go to Camera** screen to complete **Auto Configuration**.

ADD GPS MAP TO CAMERA

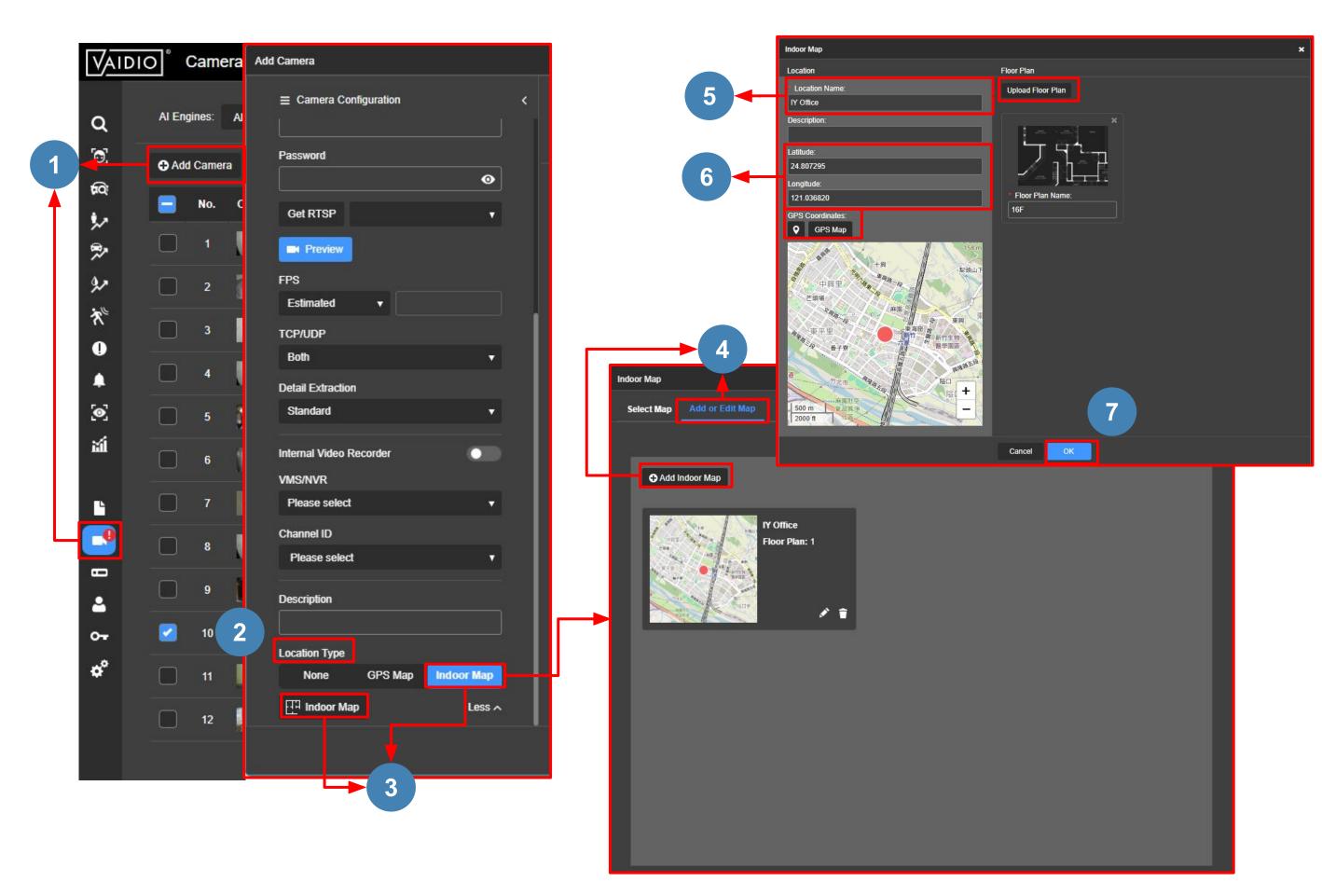




- 1. From the sidebar menu, select **Camera**, then select **Add Camera**.
- 2. In the Camera Configuration section of the Add Camera screen, click More to view additional settings and scroll down to Location Type.
- 3. Select **GPS Map** and click the **GPS Map location icon** to display a **GPS Map**.
- 4. Select a **location** on the map or enter **coordinates** to add a **pin** to the exact **location of the camera** on the map.
- 5. Click **OK**, then click **Save** on the **Add camera** screen to add a **GPS Map** to a newly added or existing camera (see <u>Add New Camera</u> for information on other **Add Camera** settings).

ADD INDOOR MAP TO CAMERA

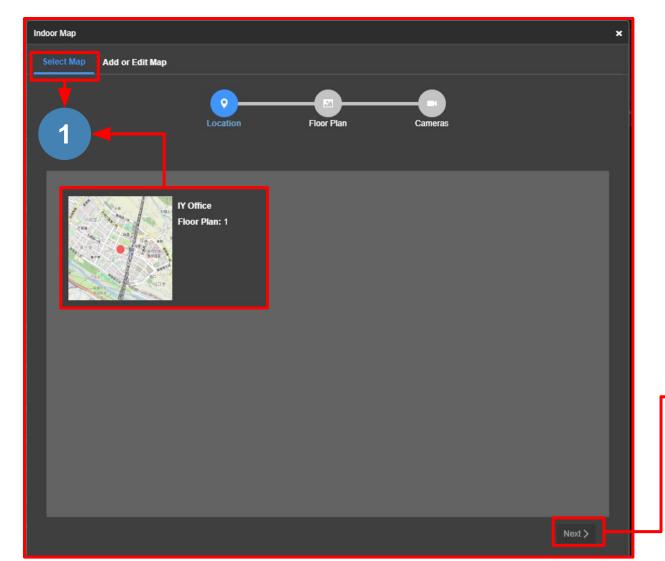


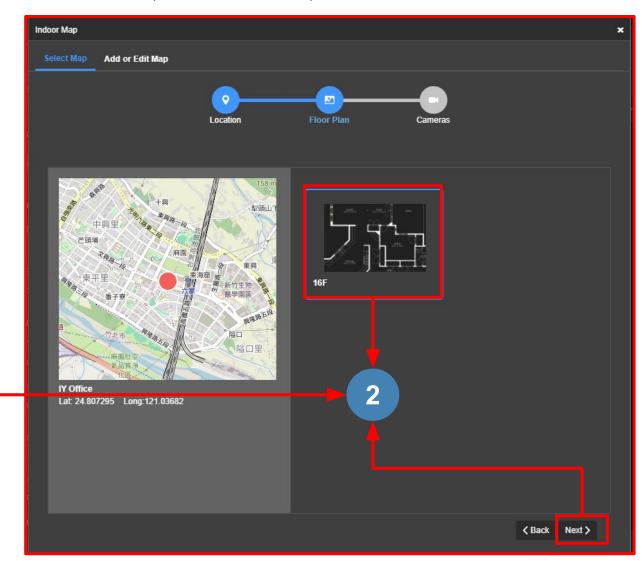


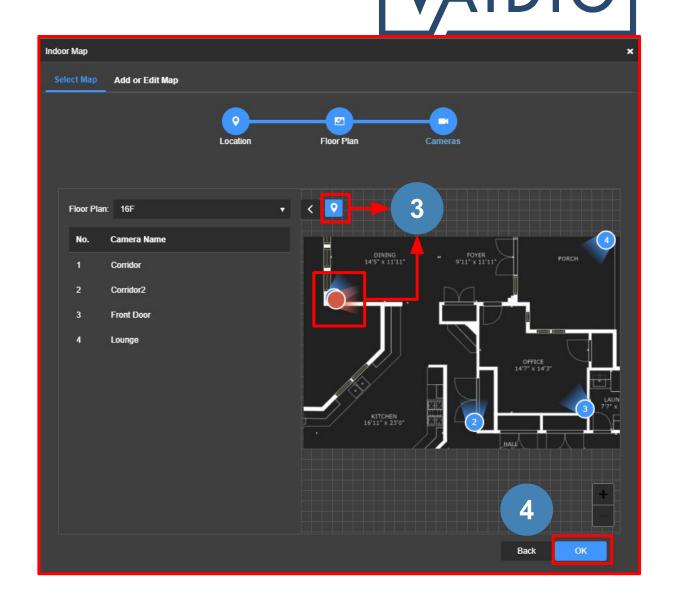
Upload Indoor Map:

- From the sidebar menu, Camera > Add Camera.
- In the Camera Configuration section of the Add Camera screen, click More to view additional settings and scroll down to Location Type.
- 3. Select **Indoor Map** and click the **Indoor Map location icon** to display a **Indoor Map** screen.
- 4. Click the **Add** or **Edit Map** tab, then click **Add Indoor Map** to open a second **Indoor Map** screen.
- 5. Enter a Location Name then click Upload Floor Plan to open File Explorer and select a saved Floor Plan.
- Once the Floor Plan uploads, enter Latitude and Longitude coordinates or select the Floor Plan location from the GPS Map.
- 7. Click **OK** to complete **Indoor Map** upload.

ADD INDOOR MAP TO CAMERA (CONT.)







Add Camera Location to Indoor Map:

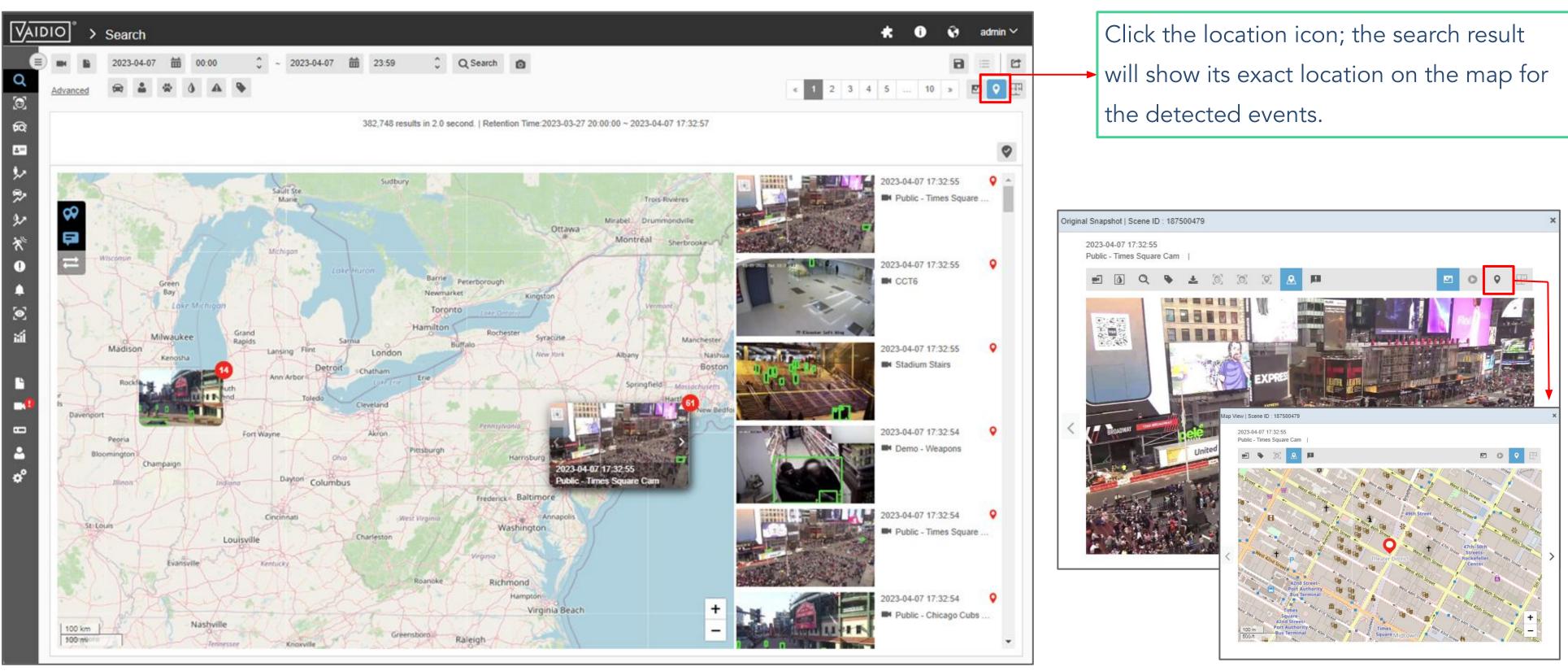
- 1. Click the Select Map tab, then select the previously uploaded Indoor Map Location (see Add Indoor Map to Camera to verify Indoor Map Location).
- 2. Click **Next** to select the **Floor Plan**, then click **Next** again to display the **Floor Plan**.
- 3. Click the Location icon, then select a location on the Floor Plan to add the camera.
- 4. Click **OK** to complete adding the camera location to the **Indoor Map**.

Note

For newly added cameras, first ensure all necessary settings are configured (see <u>Add New Camera</u> for more information).

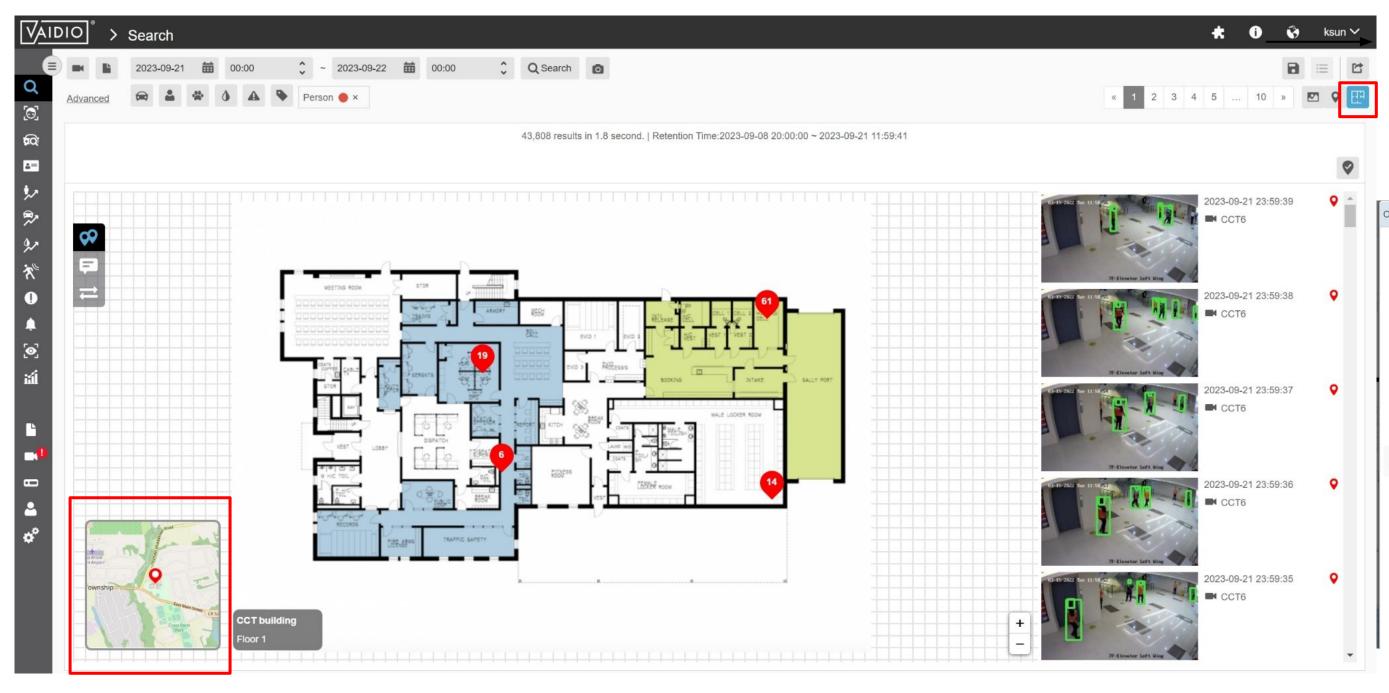
RESULTS ON GPS MAP





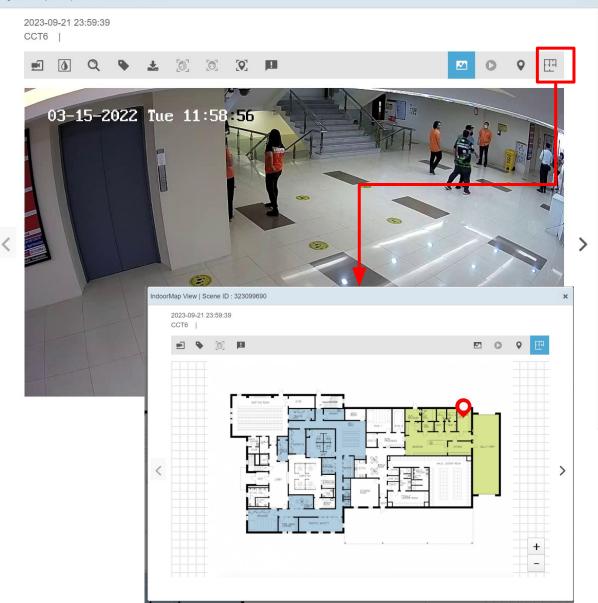
RESULTS ON GPS MAP (CONT.)





Click the Indoor Map icon; the search result will show the exact location of the detected events on the indoor map.

riginal Snapshot | Scene ID : 323099690

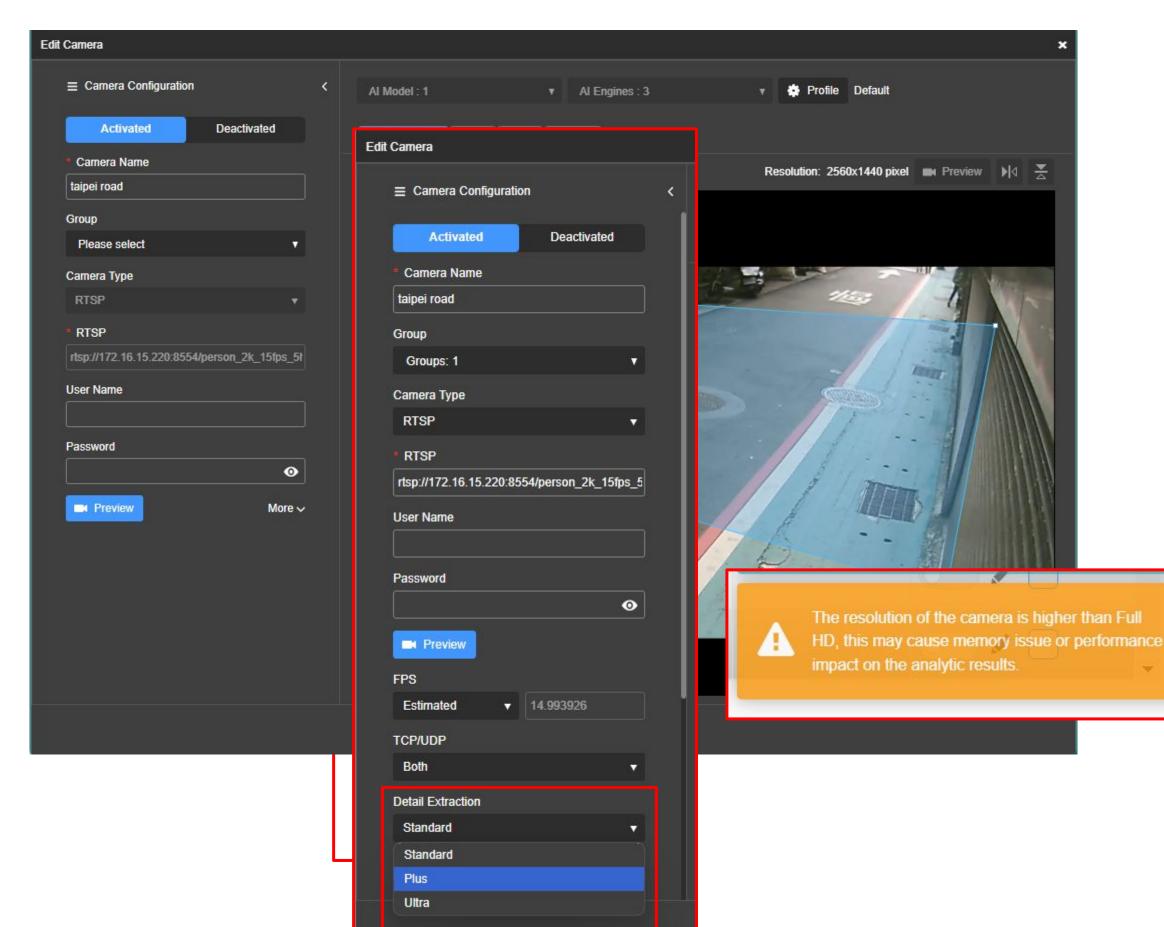


Return to <u>Camera Management</u>

Note: GPS coordinates can be added to indoor maps to display the location of a camera on a GPS map and an indoor floor plan.

The GPS location of the results is displayed in a thumbnail next to the floorplan.

DETAIL EXTRACTION





Camera > Edit > More > Detail Extraction and select Plus or Ultra from the drop-down menu to enhance detection for 4K/8K cameras.

Modes:

- **Standard** (default)
- ☐ Plus (3x resources)
- ☐ Ultra (7x resources)

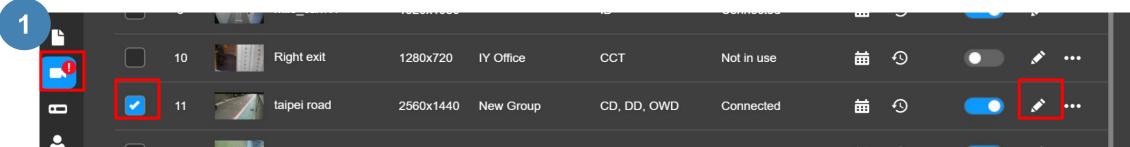
Applies to IP, RTSP, & Video file formats and all Al analytic engines.

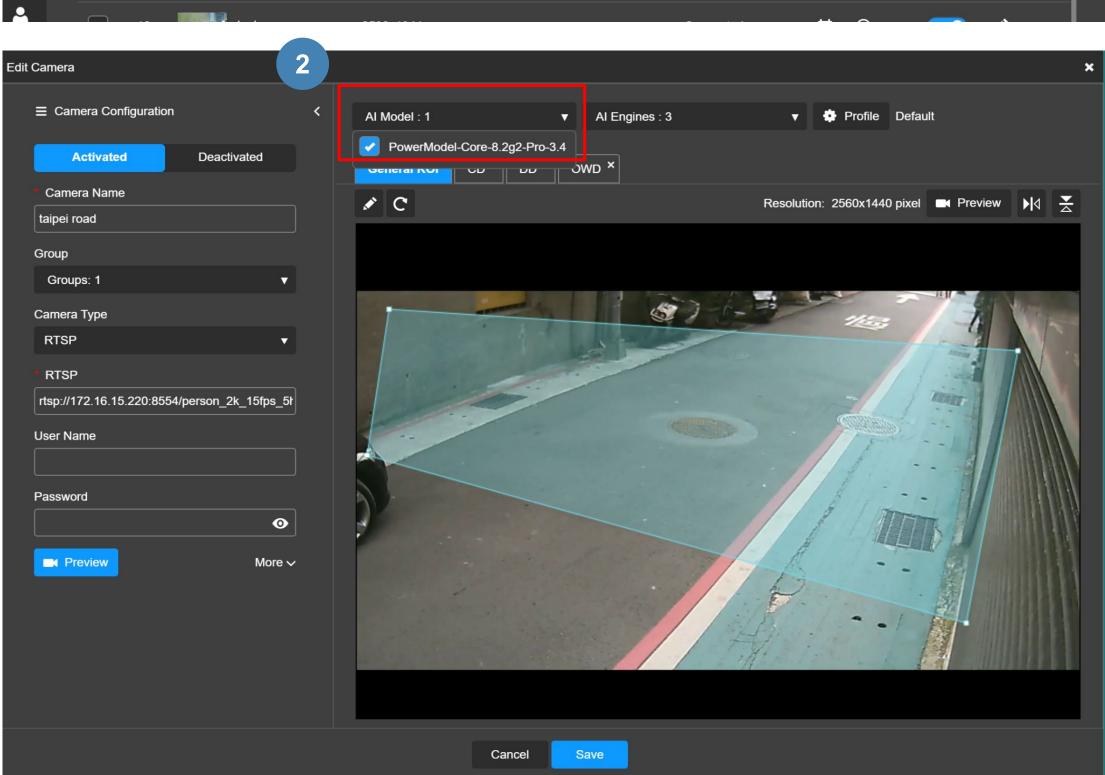
Note

For cameras above **1080p**, Vaidio displays a **warning** but supports high-resolution processing.

SELECT AI MODEL







- 1. Camera > Edit to display the Edit Camera screen.
- 2. From the **Al Model** drop-down list, select the necessary **model(s)** for the selected camera(s).

Notes

- Detection **object types** depend on the selected model.
- Only **installed**, **activated** models appear in the list (**System** > <u>Al Models</u>).
 - File a support ticket if a model is missing.

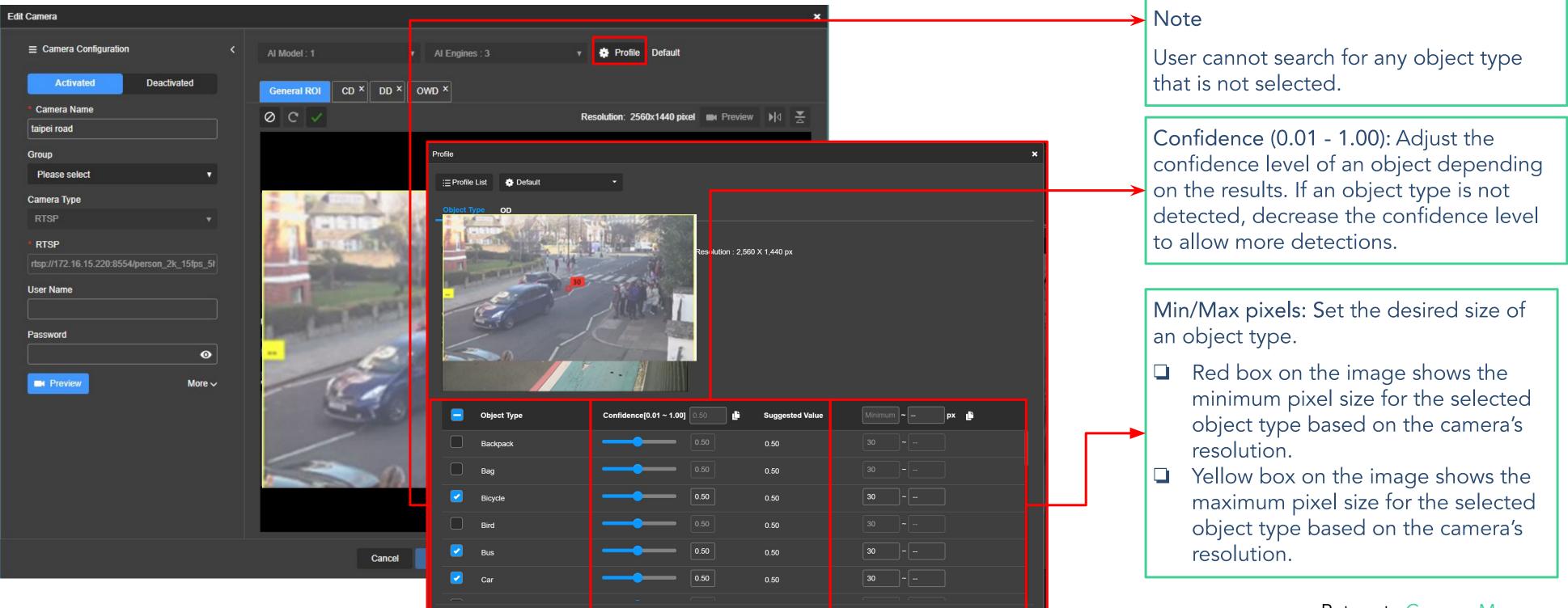
CONFIGURE CAMERA PROFILE

VAIDIO

Object Type: Select all object types that

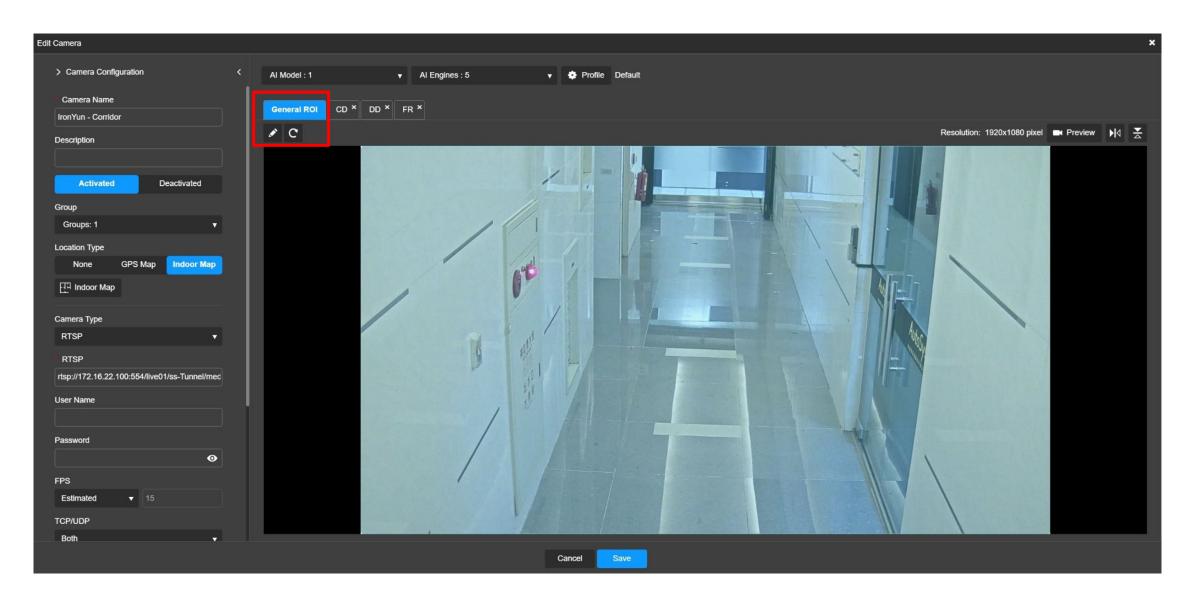
should be detected in this camera FOV.

Create camera **Profiles**: **Camera** > **Edit Camera** to save engine settings on multiple cameras (view the specific <u>Analytics User Guides</u> for details on **Profile Settings**).



DEFINE GENERAL ROI





Define General ROI (Edit Camera > ROI Tab):

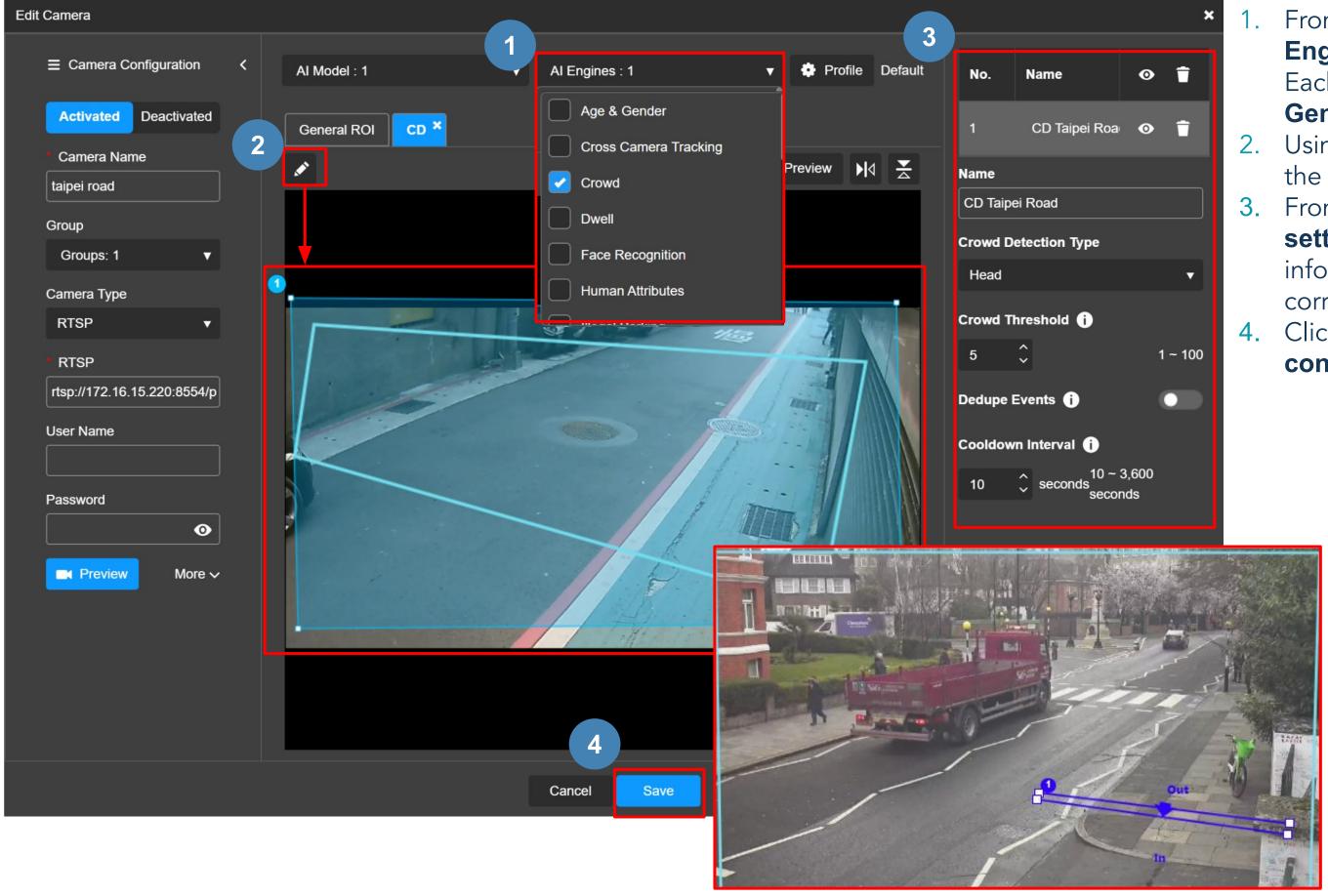
Use the **pencil icon** to draw the **area of interest** by clicking **boundary points** in the frame.

Exclude irrelevant areas (e.g., sky) to optimize resources and reduce false alarms.

Note

The **General ROI** applies to ALL analytics. Other analytics (e.g., Intrusion, FR) MUST be within it. Objects outside will NOT be detected.

ACTIVATE AI ENGINE(S) + ROI

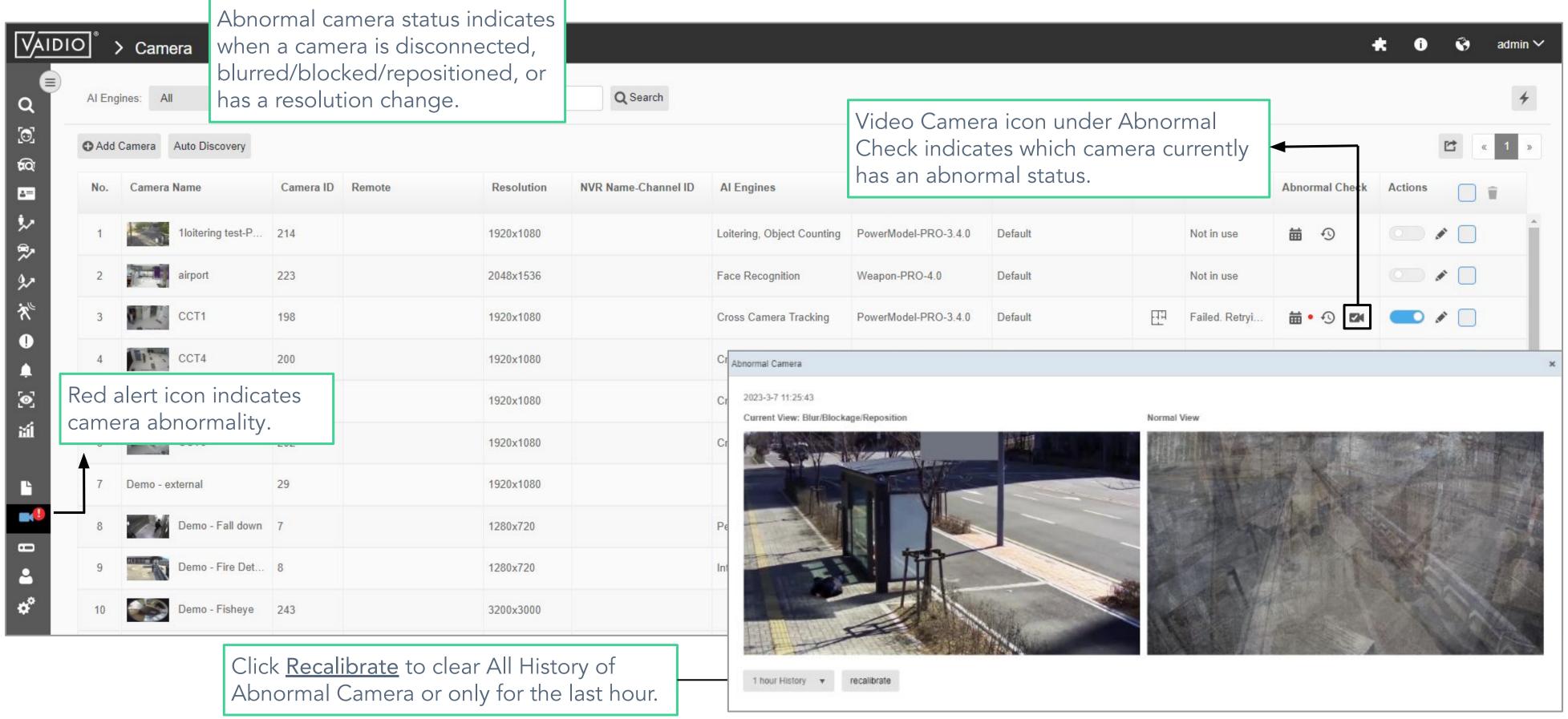




- 1. From the **Edit Camera** screen, select one or more **Al Engines** (analytic functions) from the drop-down menu.
 Each selection displays as a separate tab next to **General ROI**.
- 2. Using the **pencil icon**, draw the **ROI** or **Line Set** for the selected engine in the camera snapshot window.
- 3. From the right-hand side of the screen, configure the **settings** for each selected analytic function. For more information on configuring analytic engines, see the corresponding <u>Analytics User Guide</u>.
- 4. Click **Save** to apply **Al Engine** and **ROI** configurations.

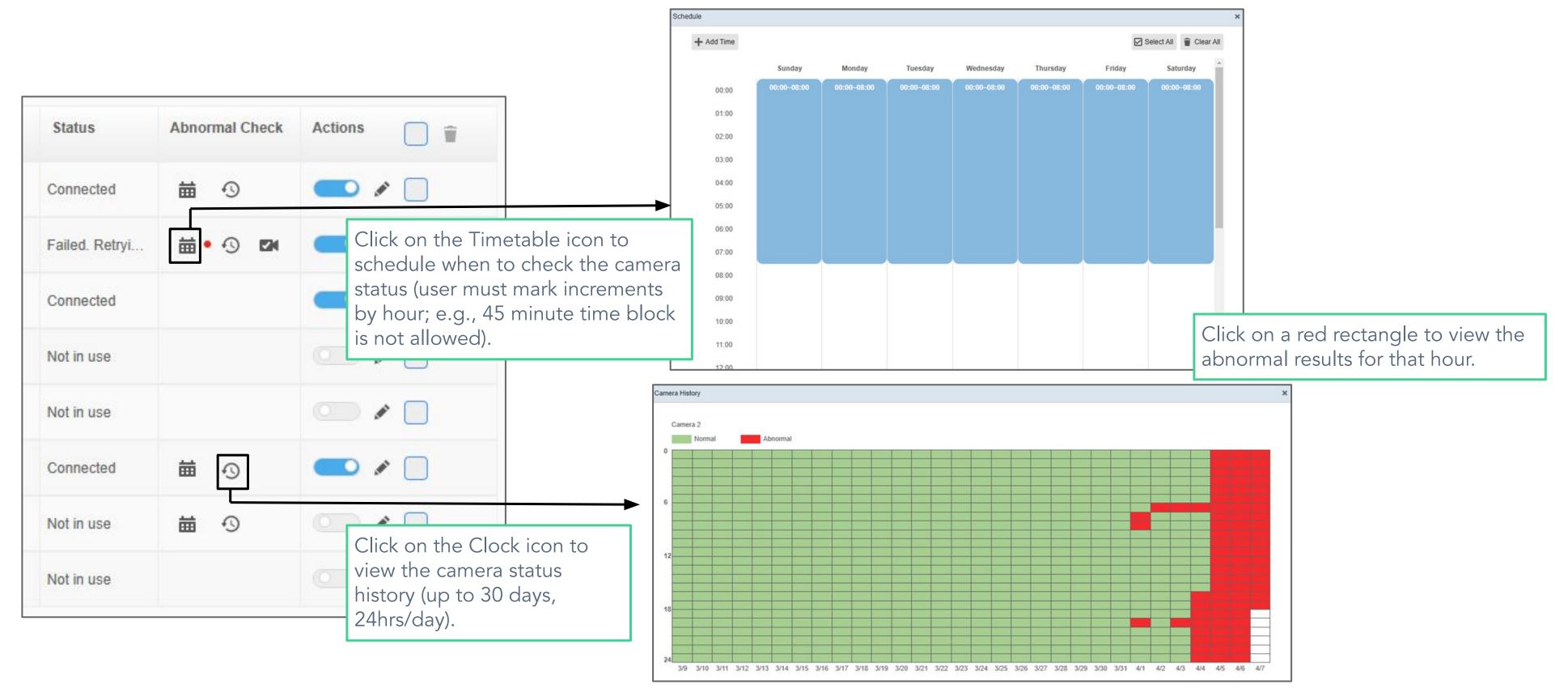
CAMERA HEALTH MANAGEMENT





CAMERA HEALTH MANAGEMENT (CONT.)





Refer to Alert Setup to set up an alert when a camera state changes to abnormal.

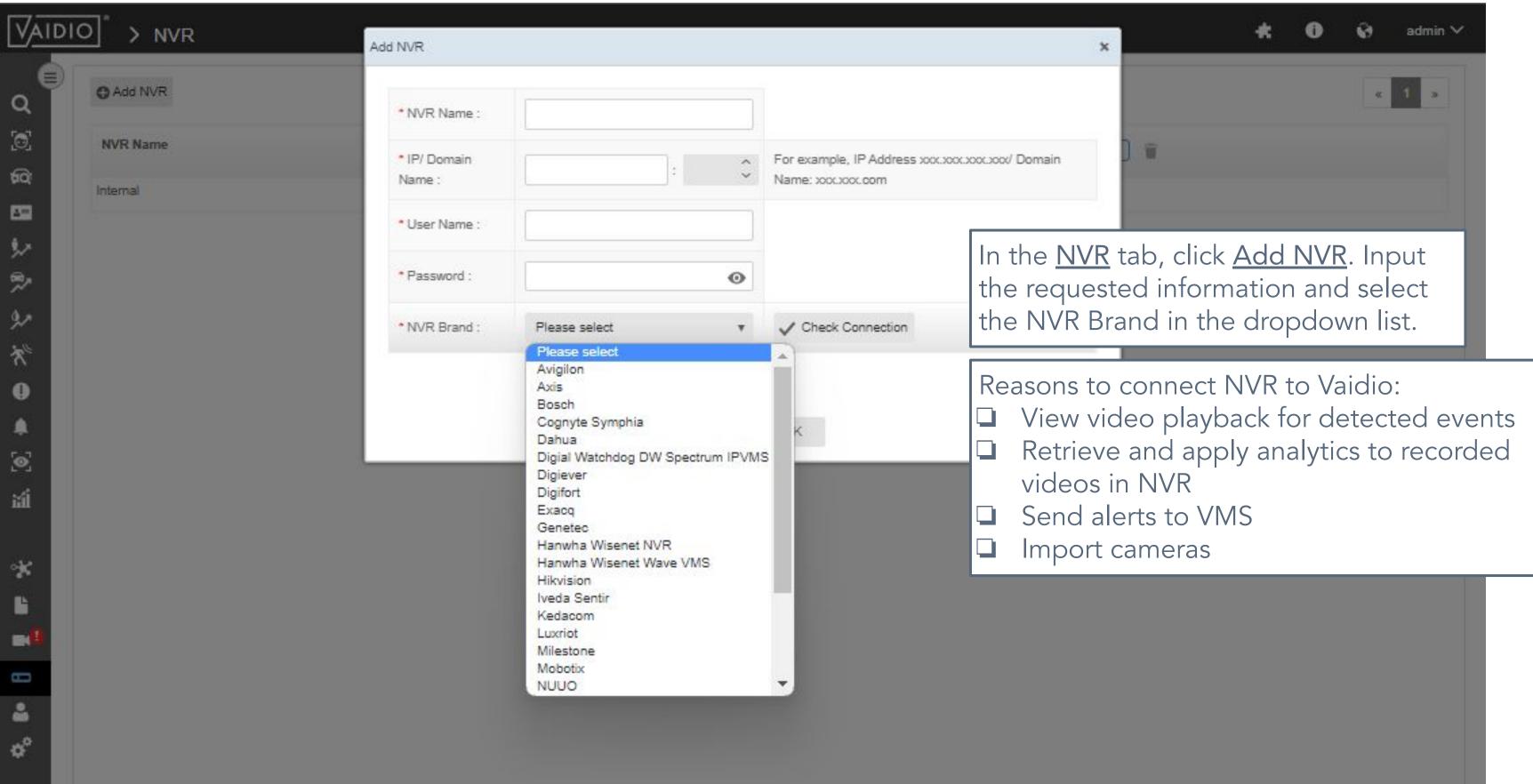


NVR MANAGEMENT

- Add NVR
- Camera Batch Import
- Internal Video Recording

ADD NVR





ADD NVR (CONT.) - COMMON NVR/VMS PORTS



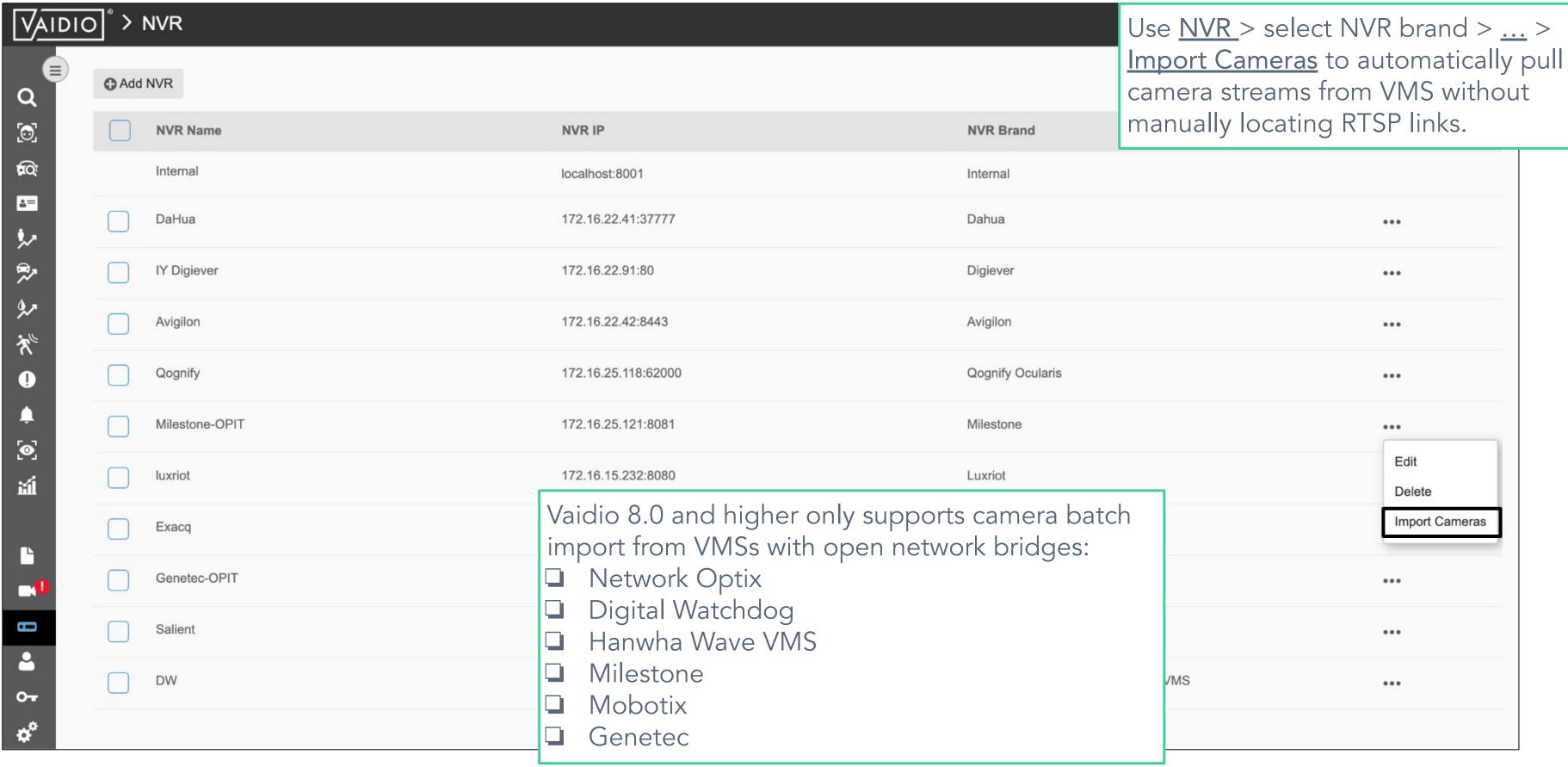
NVR/VMS Brand	<u>Port</u>
Avigilon ACC	8443
Axis ACS	55756
Dahua	37777
Digifort	8601
Digital Watchdog Spectrum	7001
Exacq	80
Genetec Security Center	8888
Hanwha Wave VMS	7001
Milestone XProtect	8081
Network Optix Nx Witness	7001
Salient CompleteView	8888
VideoInsight	9000

<u>Note</u>: Additional configuration for NVR/VMS Integration is required and varies by brand. Please contact a Vaidio representative or file a ticket in the <u>Vaidio Support Portal</u> for instructions on configuring specific VMS/NVR brands.

Return to NVR Management

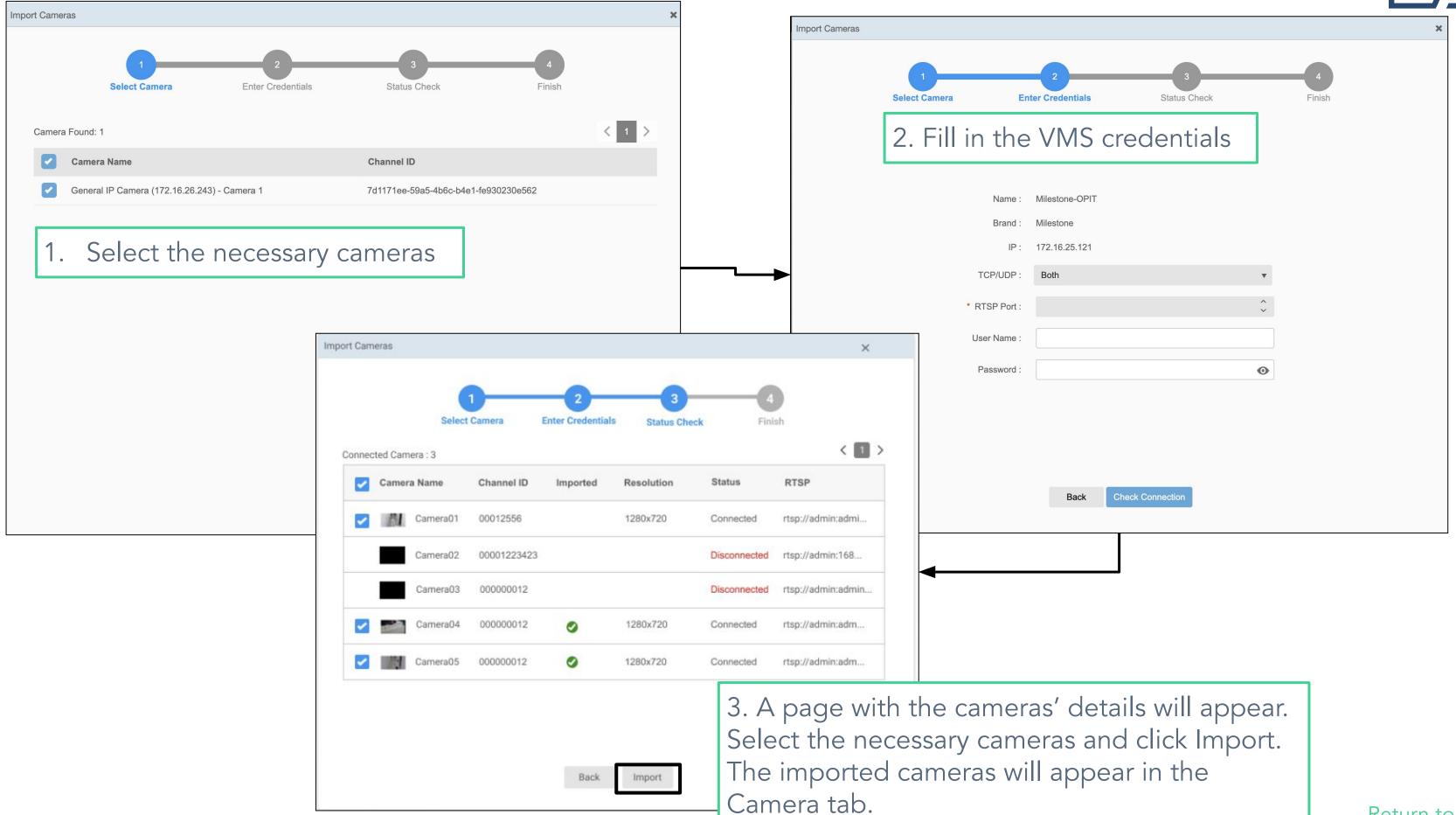
CAMERA BATCH IMPORT FROM VMS





CAMERA BATCH IMPORT FROM VMS (CONT.)

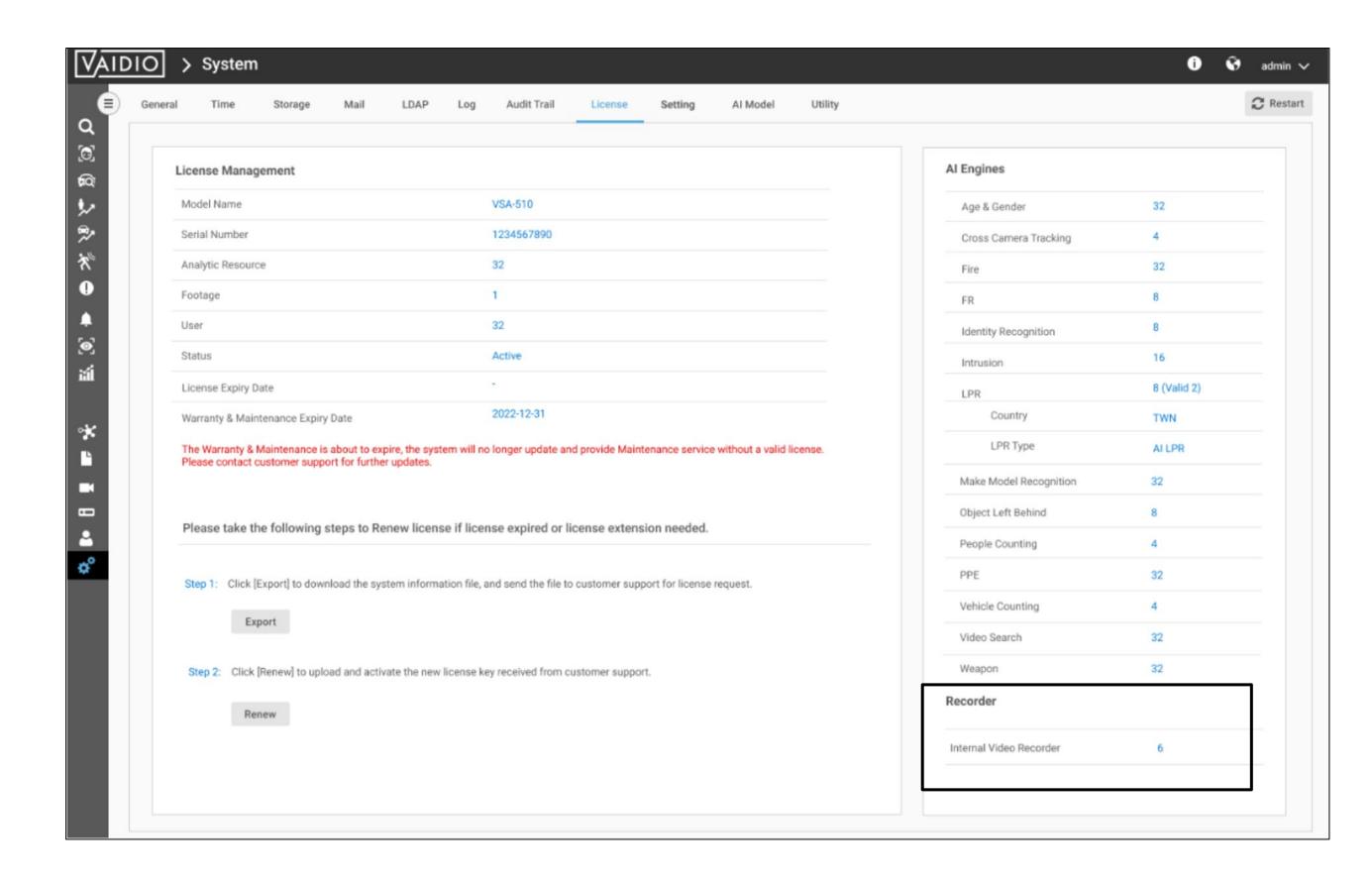




Return to NVR Management

INTERNAL VIDEO RECORDING





Starting from version 5.2.0, the user has the option to record video within the Vaidio server.

Check the number of channels in System > License.

To use Internal Recorder, install an additional HDD for Internal Recording setup before requesting Internal Recorder licenses.

Note: In Vaidio 8.0.0 and higher, Internal Recording supports H.264 and H.265 formats if the camera supports H.265 codec and is pre-configured.

INTERNAL VIDEO RECORDING (CONT.)



Camera Info		
* Camera Name :	Zhudong - 1st Road	
Group :	Please select	•
Location Type :	GPS Map	▼ Q
Description :		
Activate :	Activate Deactivate	
Camera URL		
Туре :	RTSP	•
* RTSP:	rtsp://172.16.22.30:8554/Zhudong4	
User Name :		
Password :		•
FPS:	Estimated ▼ 8.984876	
TCP/UDP:	Both	•
Detail Extraction:	Standard	•
NVR		
	Internal Video Recorder	
NVR :	Please select	•
Channel ID :	Please select	•

To enable recording and video playback for a camera, go to <u>Camera</u> > <u>Edit</u>

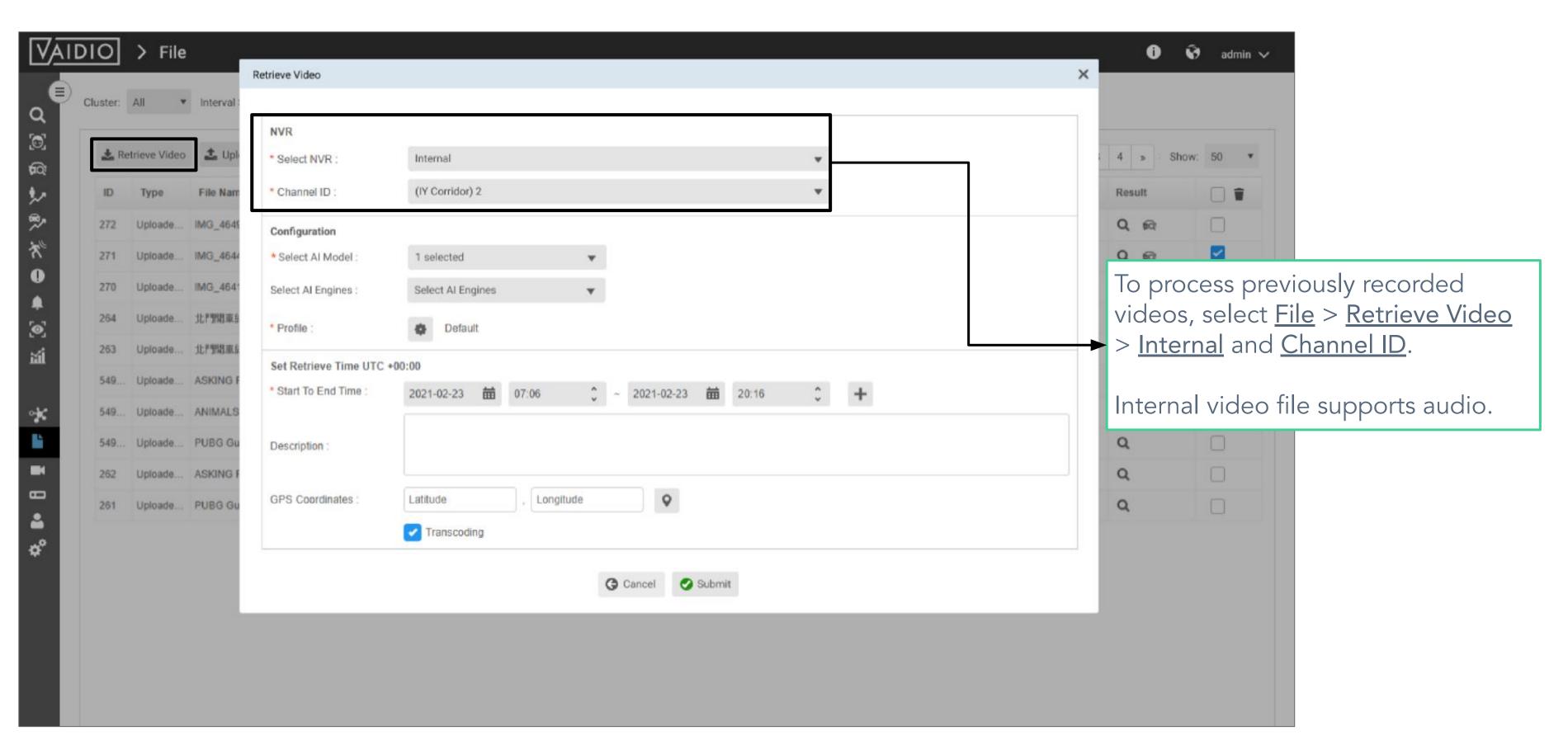
<u>Camera</u> or <u>Add Camera</u> > NVR > select

<u>Internal Video Recorder</u>

Note: Internal Recorder is only allowed for cameras added via IP address and/or RTSP

INTERNAL VIDEO RECORDING (CONT.)





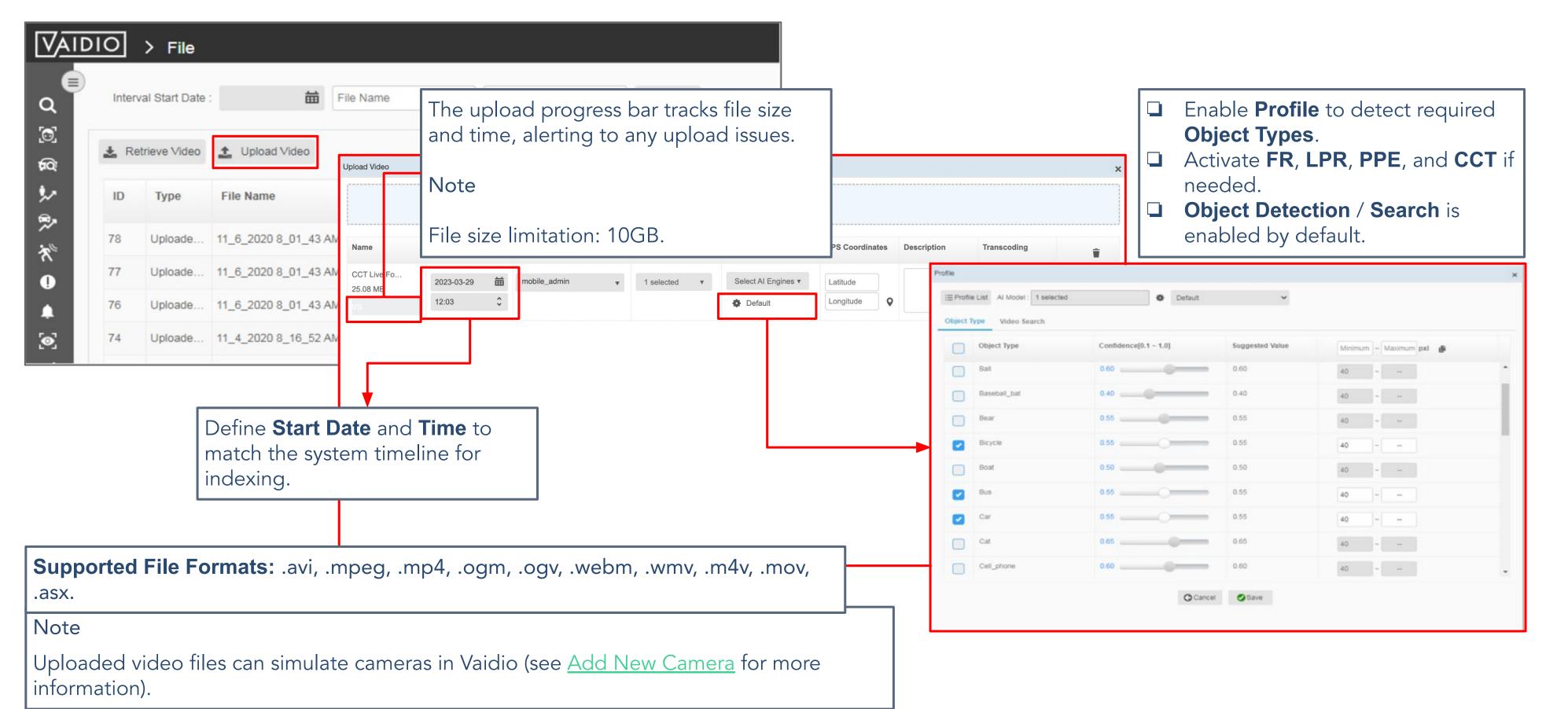


FILE MANAGEMENT

- Upload VideoRetrieve Video

UPLOAD VIDEO

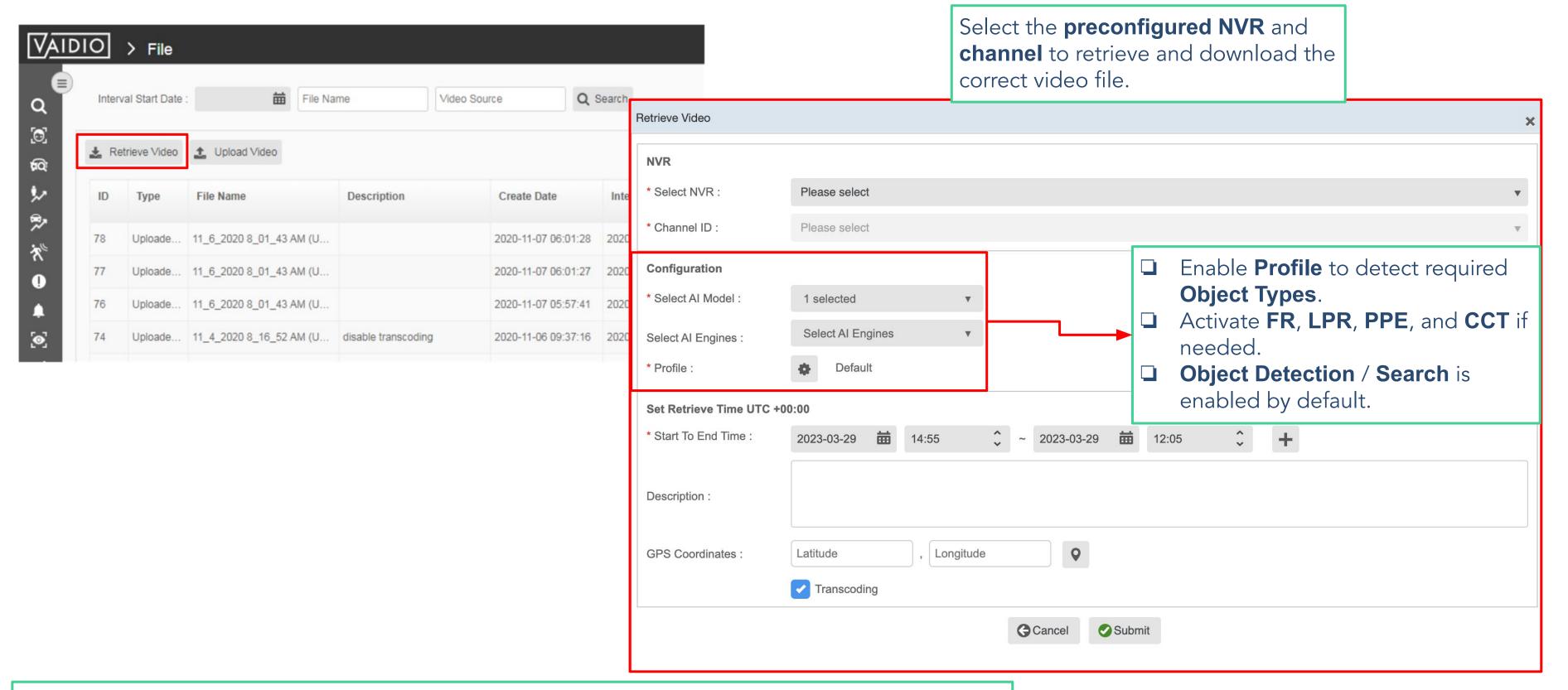




Return to File Management

RETRIEVE VIDEO





Note

Uploaded video files can simulate cameras in Vaidio (see <u>Add New Camera</u> for more information).

Return to File Management



API KEYS

- Introduction & Purpose of API Keys
- API Keys Management

INTRODUCTION & PURPOSE



Vaidio 7.2.0 & Earlier:

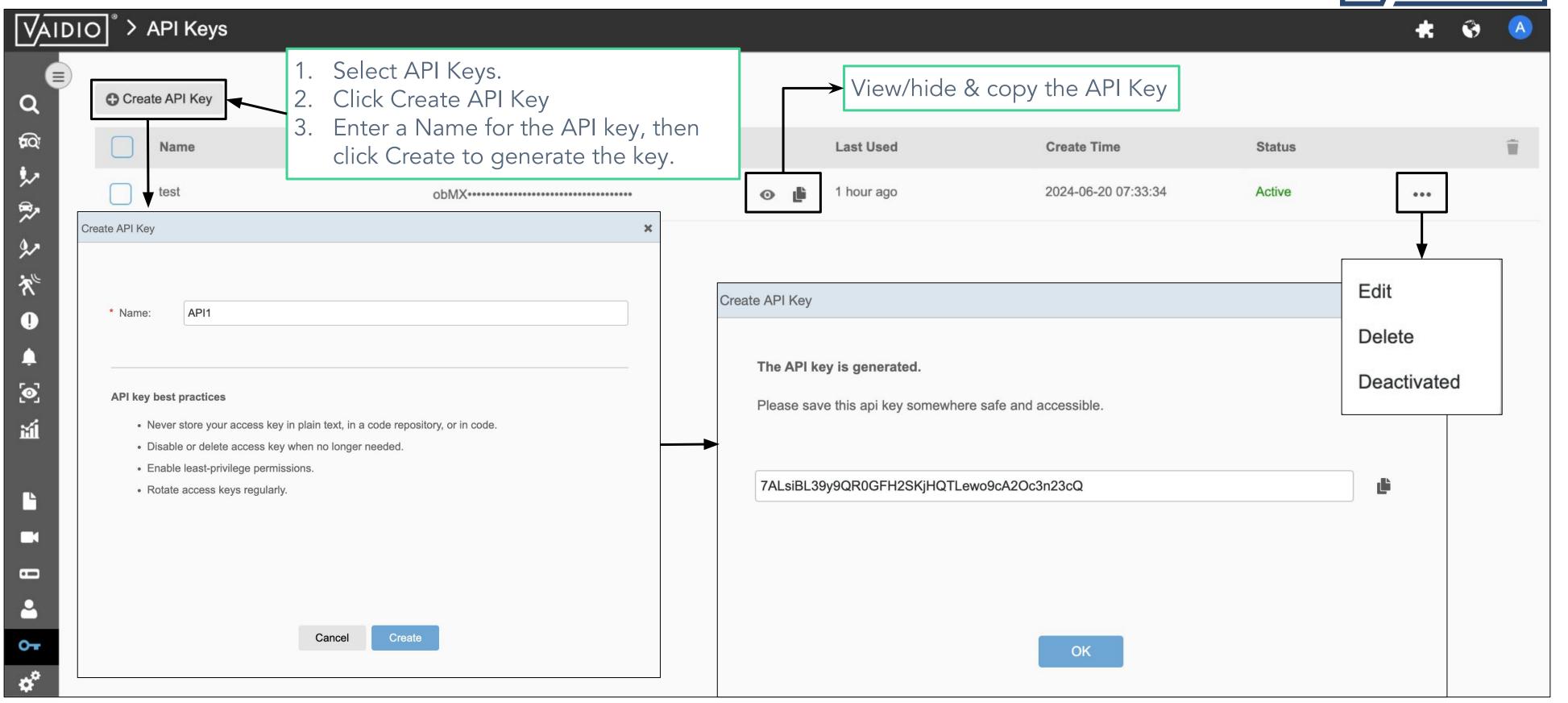
Requires revealing database passwords for API calls. Password changes disrupt integration, needing manual updates and posing security risks.

Vaidio 8.0.0+:

No password sharing needed. Simply copy the API key from Vaidio (API Key tab) for authentication.

API KEYS





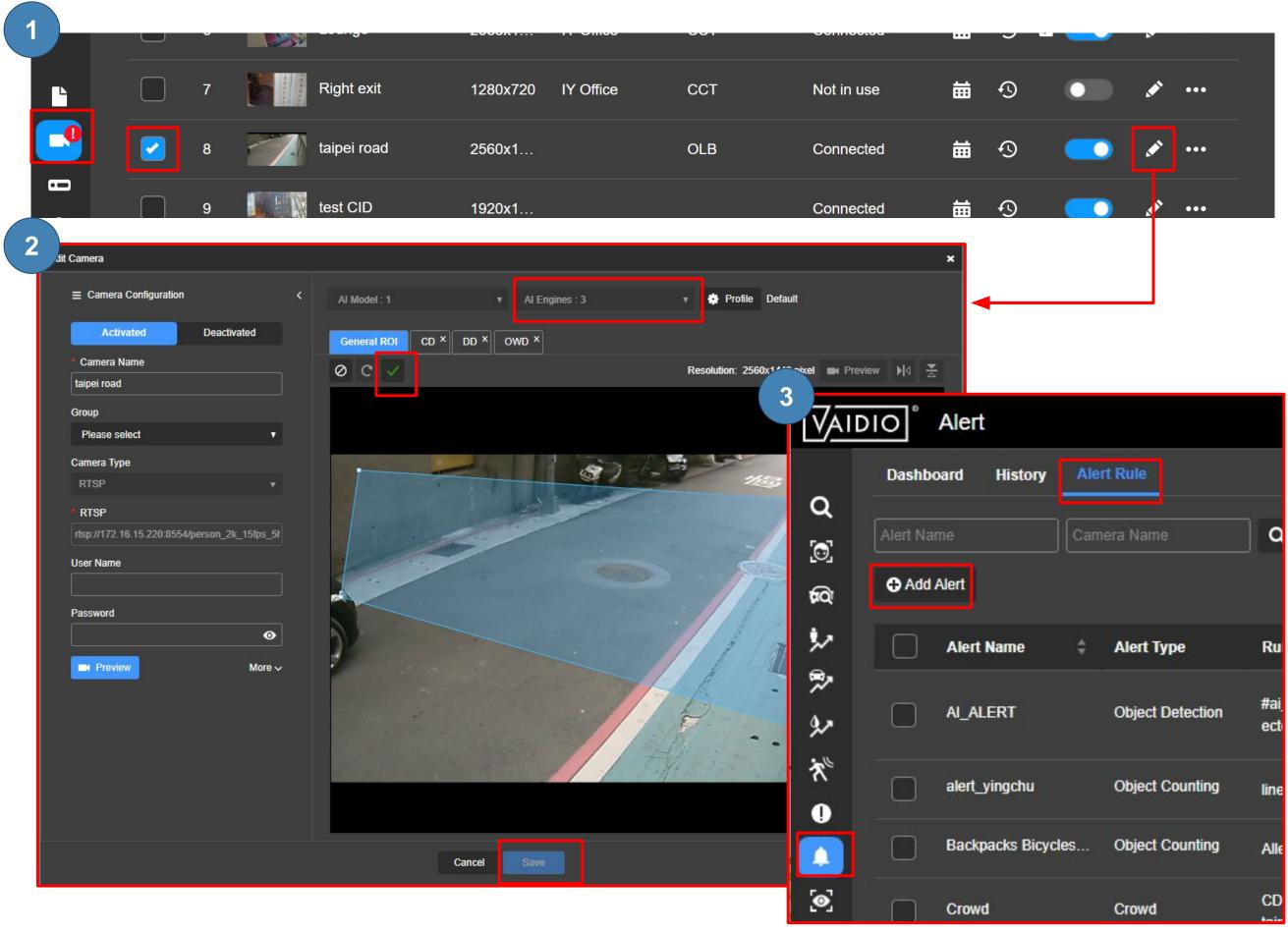


ALERT SETUP

- Add New Alert
- Alert Scheduling
- Copy Existing Alert Trigger Action

ADD NEW ALERT





Configure Cameras for Alerts:

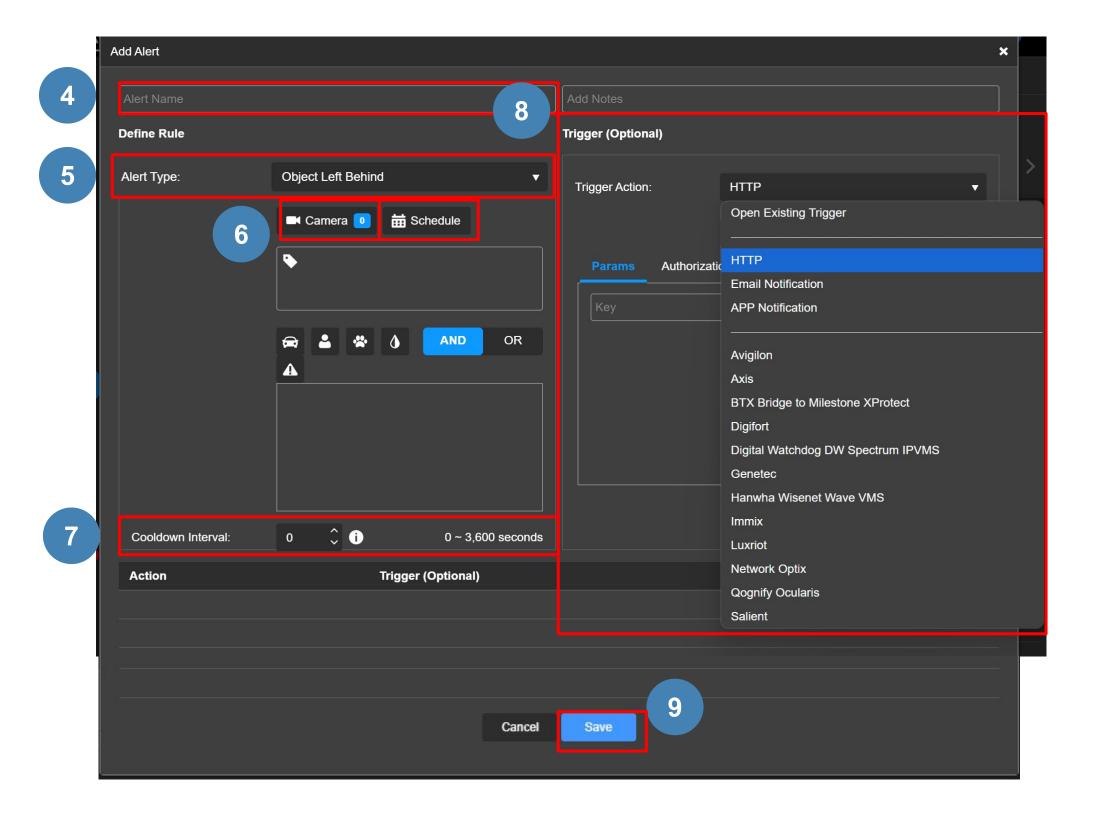
- 1. Camera > Edit.
- 2. Select/deselect **AI Engines**, draw **ROI(s)**, then click **V** to confirm and **Save**.
- 3. Alert > Alert Rule > Add Alert (see Add New Alert (Cont.) & Vaidio

 Core Functions User Guide).

Return to Alert Setup

ADD NEW ALERT (CONT.)

- 4. Enter an Alert Name.
- 5. Select Alert Type(s) and define rules for object types and scenarios.



Include:

- ☐ Camera Abnormal Type for Camera Abnormal
- ☐ **List** for FR/LPR
- ROIs for ID, OLB, etc.
- Line Sets for OT
- 6. Select **camera(s)** and **ROI(s)**, and **Schedule** alerts (see <u>Alert Scheduling</u> for more information).
- 7. Set a Cooldown Interval (10-3,600 seconds).

Note

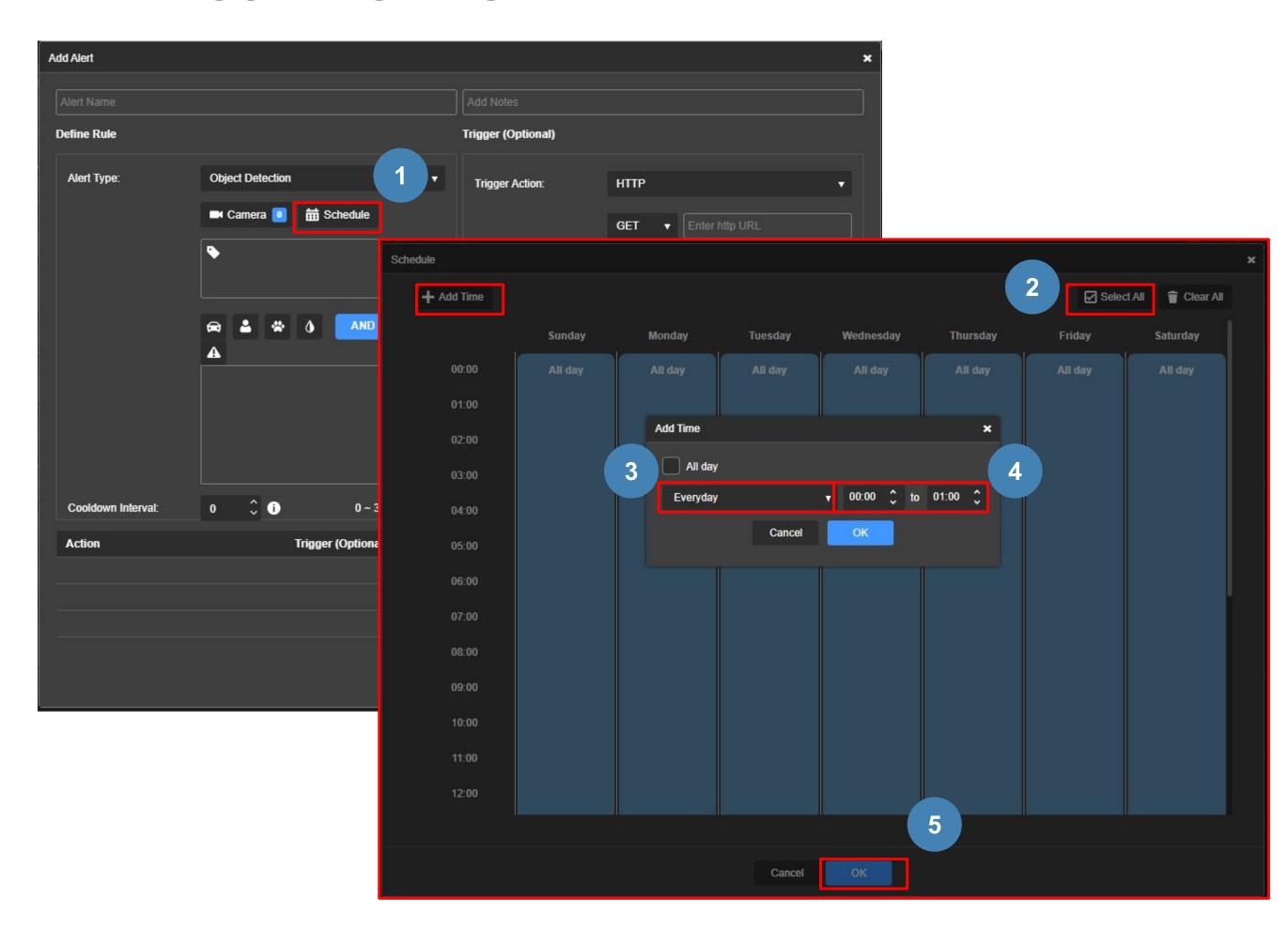
A **Cooldown Interval** is the time between alerts (see the <u>Core</u> <u>Functions User Guide</u> for more information).

- 8. Configure **Alert Triggers** to view analytics events in one location and/or to push the alert to an external device (e.g., Video Management System, gate trigger via HTTP, mobile phone, etc.). See <u>Copy Existing Alert Trigger Actions</u> for information on copying **existing Trigger configurations** for newly created **Alerts**.
- 9. Click **Save** to enable the alert.

Note

Alert Scheduling, Cooldown Intervals, and Triggers are OPTIONAL.

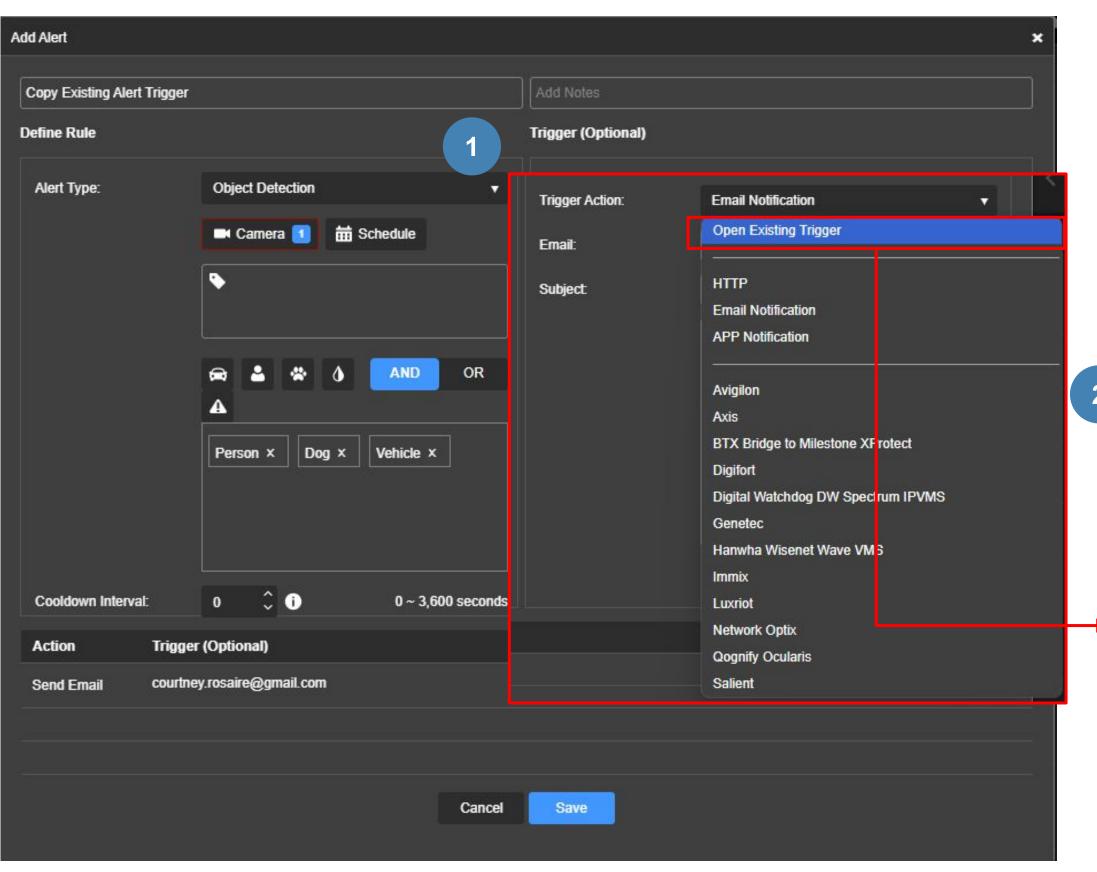
ALERT SCHEDULING



- 1. Click **Schedule** to display a weekly Schedule.
- 2. Select one or more days, or click Select ALL.
- 3. Alternatively, select days from the **Add Time** drop-down menu.
- 4. Set a **timeframe** or check the **All Day** box to configure alerts to run all day.
- 5. Click **OK** > **OK** to enable scheduled alerts.

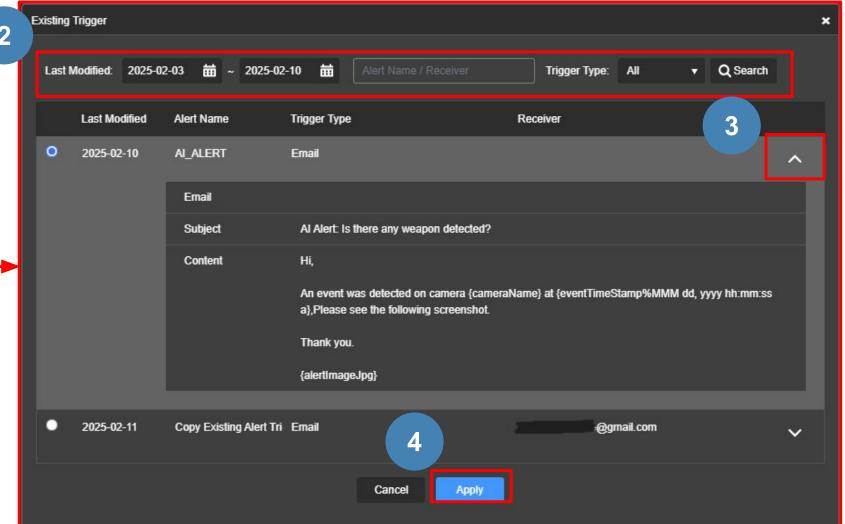
COPY EXISTING ALERT TRIGGER ACTION





To reuse a configured alert trigger (e.g., email or HTTP trigger) for a new alert:

- 1. Add Alert > Trigger (Optional) > Open Existing Trigger.
- 2. Select a trigger by **Last Modified** date, **Alert Name**, or **Trigger Type**.
- 3. Click the arrow associated with the listed trigger for details.
- 4. Click **Apply** to assign the trigger.



Return to Alert Setup



USER MANAGEMENT

- Types of User Accounts
- Add User
- Add User Group
- Permission Control

TYPES OF USER ACCOUNTS



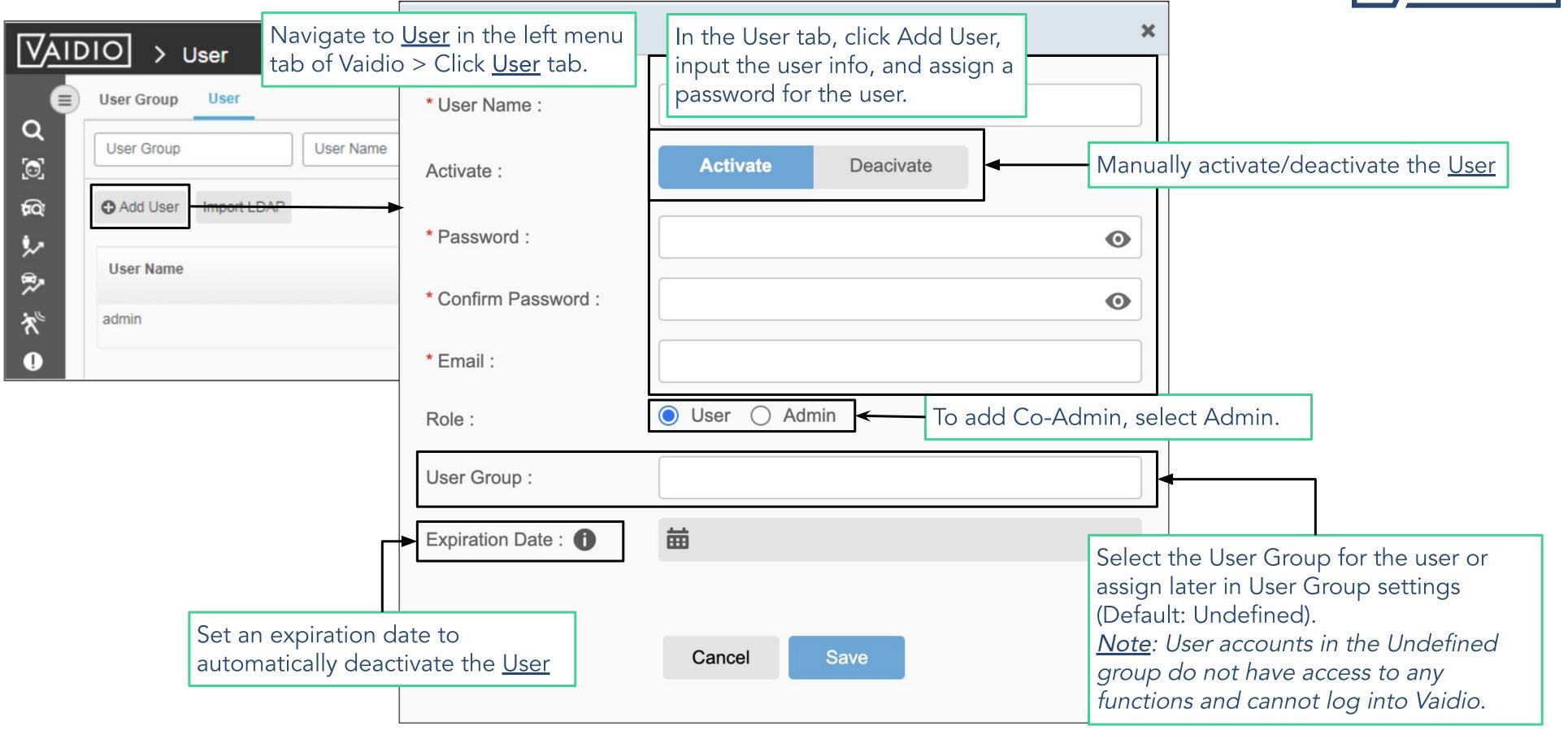
Capability	Permission			
	Admin	Co-Admin	General User	
Add/delete users	Manage	Manage (except Admin)	None	
User's role and group	Manage	Manage	None	
User's password and email	Manage	Manage (except Admin)	Manage its own only	
Camera control	Manage	Manage	Based on group permission	
Video source control	Manage	Manage	Based on group permission	
Al 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 using the Audit Trail. Instead of relying on one admin account, the Admin can create multiple Co-Admins to manage the system and other user groups.

Return to User Management

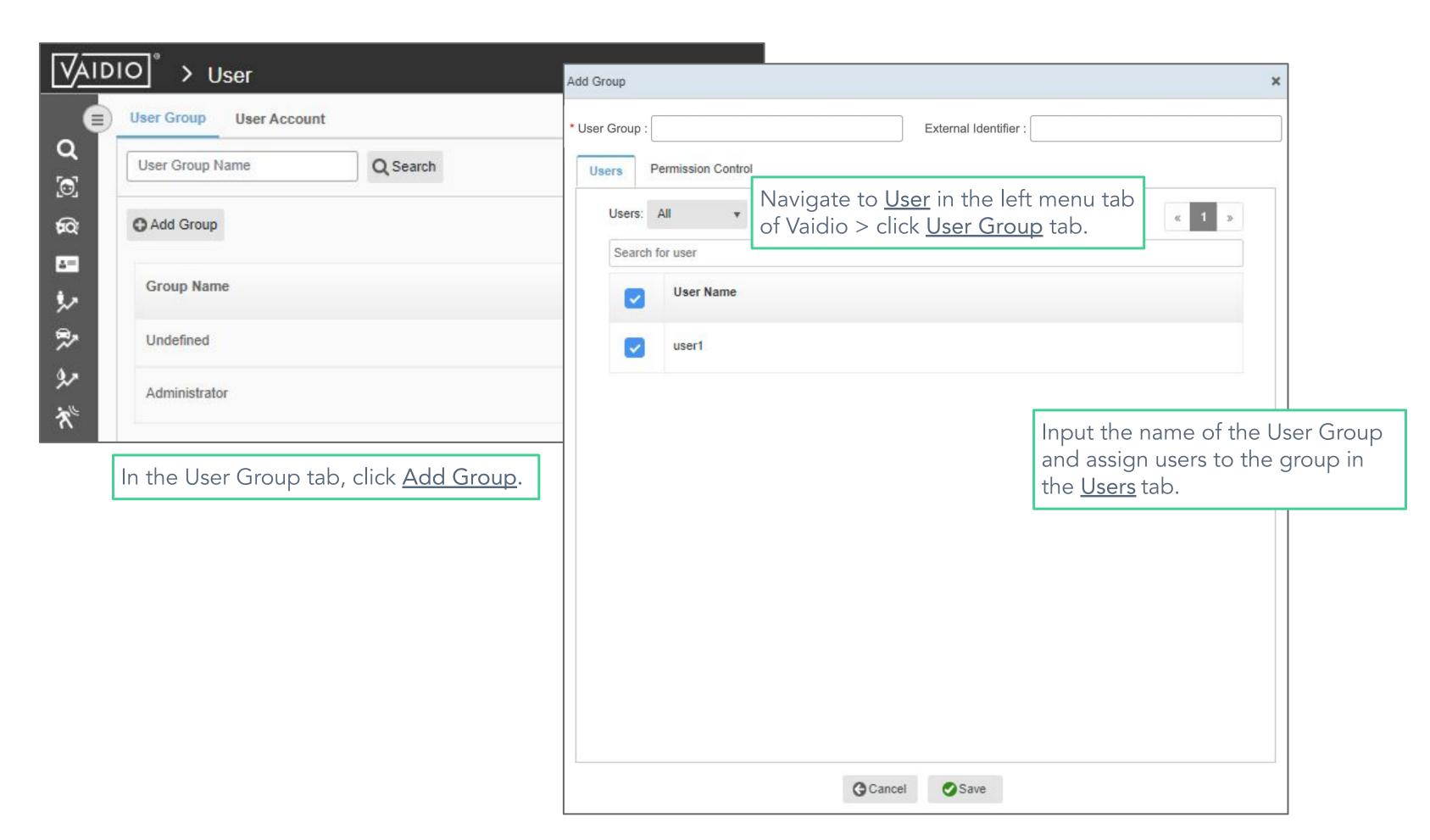
ADD USER





ADD USER GROUP



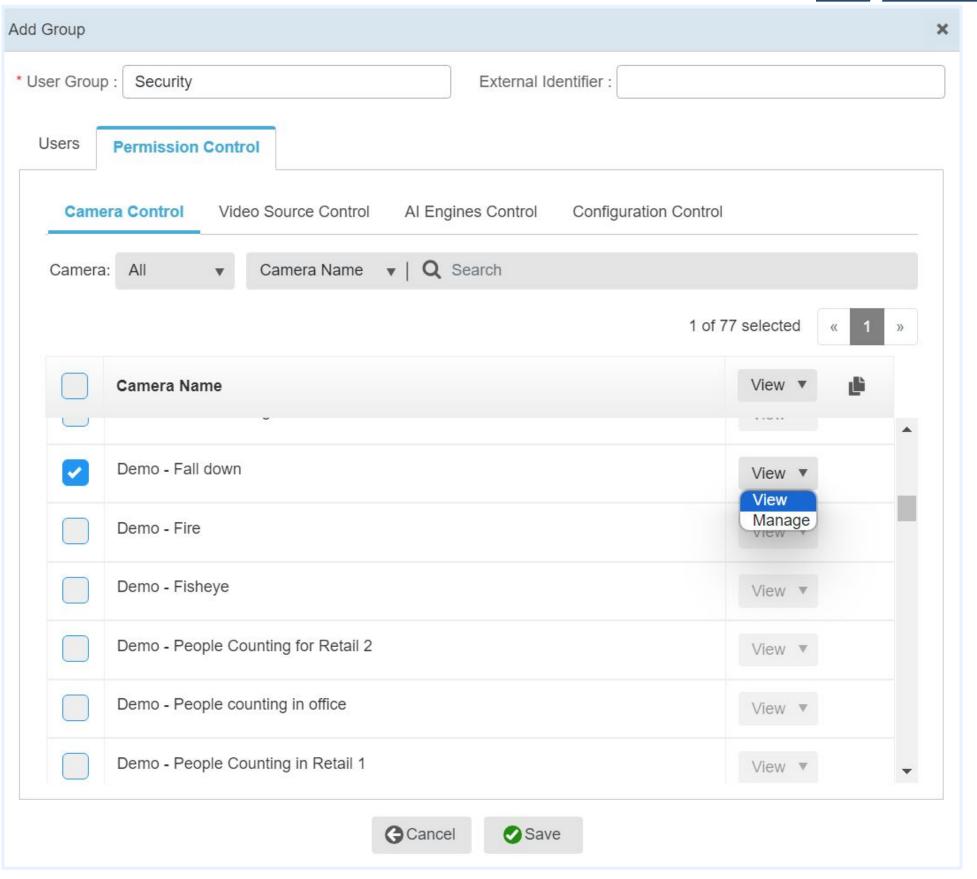


Return to User Management

PERMISSION CONTROL

VAIDIO

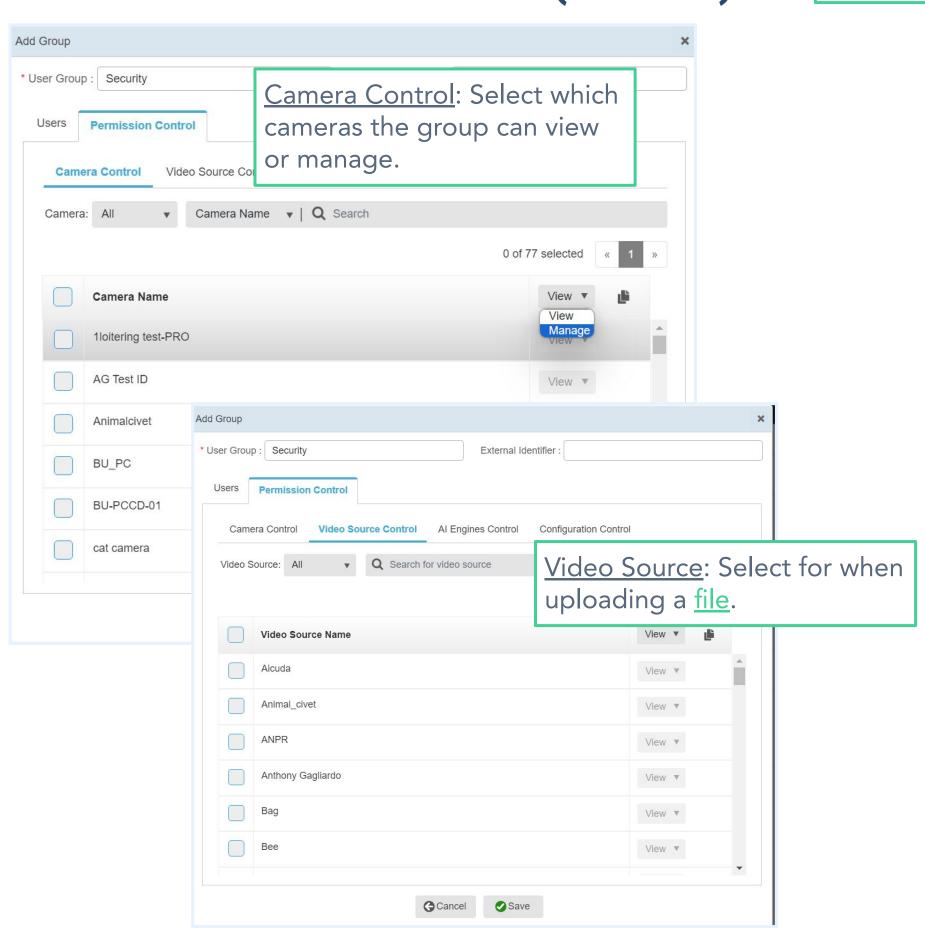
- Camera Control: Select the cameras that the user group can access
- Video Source Control: Select the video source from which the user group can upload videos
- Al Engine Control: Select what engines (analytics) the group can view or manage.
- Configuration Control: Select whether the user group can add new cameras, manage alerts, and/or unblur faces/people if Privacy Protection is enabled.

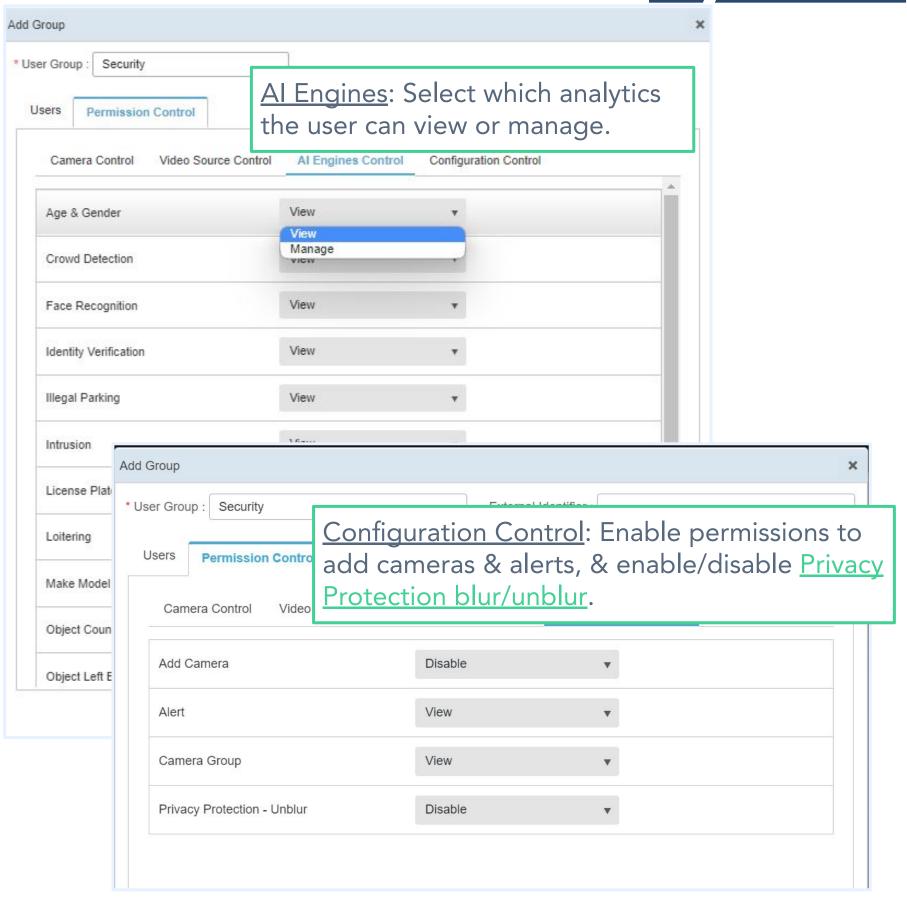


PERMISSION CONTROL (CONT.)

Admin or co-admin users can grant the following permissions:







Return to User Management

SUPPORT



For technical support, please go to the Support Portal to fill out a ticket.

For additional guides and training, please visit the Vaidio Partner Portal.

Request access at <u>vaidio.ai/support</u> to register for an account.





THANK YOU

For more information, visit <u>Vaidio</u> <u>Support Page</u> on the Partner Portal