# **Operating Instructions** i-PRO Active Guard for XProtect

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# **1. INTRODUCTION**

# 1.1. FEATURES

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### 1.1.D Abbreviations

These are descriptions of the basic terms used in these operating instructions.

Microsoft® Windows® are described as Windows. Milestone® XProtect® are described as XProtect.

# 1.1.E Disclaimer of warranty

# This product is designed to search/verify a specified face from a databas

This product is designed to search/verify a specified face from a database that stores face information and thumbnail images created based on faces captured by network cameras and display statistical information by operation using a client terminal or system compatible with this product. This product by itself is not designed for crime prevention. Our company accepts no responsibility for the following under any circumstances.

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# **1.2. PREFACE**

Setup is required before using the plug-in. Please refer to the i-PRO Active Guard Setup Instructions for XProtect.

This operating manual is for the dashboard function of i-PRO Active Guard for XProtect.

Regarding the operation of the dashboard for i-PRO Active Guard server, please refer to i-PRO Active Guard server dashboard Operating Instructions.

# **1.3. SYSTEM OVERVIEW**



The AI application or AI function on i-PRO cameras transmit the video stream to XProtect and separately transmit Best shot images and metadata to the i-PRO Active Guard server.

i-PRO Active Guard server stores this data and generates alarms when a face or a person is matched to a watchlist.

i-PRO Active Guard is the plug-in software for XProtect, this allows an operator to search Best shot images, register watchlist, show live video, recorded video, and alarm.

Bringing the ability to visualise statistics data from the i-PRO Active Guard server for added video management system functionality and business intelligence.

# 2. INSTALL / SETUP OF PLUG-IN FOR XPROTECT

# 2.1. INSTALL OF PLUG-IN FOR XPROTECT

Run the i-PRO Active Guard Plugin for XProtect installer on the Windows machine with the XProtect Event service installed. Install as required on a Windows machine with the XProtect Management Client for i-PRO Active Guard settings or the XProtect Smart Client to access i-PRO Active Guard search. When prompted restart the XProtect Event service when request.

Active Guard Plugin for XProtect vX.X.X.msi			
률 i-PRO Active Guard Plugin for XProtect	- 🗆 X	🛃 i-PRO Active Guard Plugin for XProtect	- 🗆 🗙
Welcome to the i-PRO Active Guard Plugin for XProtect Setup Wizard	ii PRO	Select Installation Folder	∷i∙PRO
The installer will guide you through the steps required to install i-PRO / Plugin for XProtect on your computer.	Active Guard	The installer will install i-PRO Active Guard Plugin for XProtect to To install in this folder, click "Next". To install to a different folder, "Browse". Eolder: C:\Program Files\Milestone\MIPPlugins\i-PRO\Active Guard\	the following folder. enter it below or click Browse Disk Cost
WARNING: This computer program is protected by copyright law and it treaties. Unauthorized duplication or distribution of this program, or any result in severe civil or criminal penalties, and will be prosecuted to the possible under the law.	international portion of it, may maximum extent Cancel	Install i-PRO Active Guard Plugin for XProtect for yourself, or for computer:	anyone who uses this
률 i-PRO Active Guard Plugin for XProtect -	- 🗆 X	i-PRO Active Guard Plugin for XProtect	- 🗆 X
Confirm Installation		Installation Complete	∷i∙PRO
The installer is ready to install i-PRO Active Guard Plugin for XProtect of Click "Next" to start the installation.	on your computer.	i-PRO Active Guard Plugin for XProtect has been successfully in Click "Close" to exit.	stalled.
		Please use Windows Update to check for any critical updates to	the .NET Framework.
< <u>B</u> ack <u>N</u> ext >	Cancel	<back close<="" td=""><td>se Cancel</td></back>	se Cancel

# 2.2. INSTALL WHEN REPLACING OLD PLUG-IN

Before installing it is recommended to stop the XProtect Event service, as files that will be replaced will be in use otherwise.



Run the i-PRO Active Guard Plugin for XProtect installer on the Windows machine with the XProtect Event.

If the XProtect Event service has not been stopped, you will receive this error. In this case press [Continue]. At the end of installation as per steps in section 2.1 you will need to restart the system

🞲 i-PRO Active Guard Plugin for XProtect Files in Use	×						
The following applications are using files which the installer must update. You can either close the applications and click "Try Again", or click "Continue" so that the installer continues the installation, and replaces these files when your system restarts.							
Milestone XProtect Event Server (Process Id: 3412)							
<u>Iry Again</u> <u>Continue</u> E <u>x</u> it Installation							

If the XProtect Event service was stopped, the installation will complete as per the steps in <u>section 2.1</u>. After installation, you will be requested to restart your system.

🞲 i-PRO Active Guard Plugin for XProtect	>	<
You must restart your system for the configuration cha Plugin for XProtect to take effect. Click Yes to restart restart later.	anges made to i-PRO Active Guard now or No if you plan to manually	
Yes	No	

#### Note:

• After updating the plugin, you need to launch the Management client once to use the plugin in SmartClient.

## 2.2.1. CONNECTION TO i-PRO ACTIVE GUARD SERVER

Open the XProtect Management Application.

- 1. Select [i-PRO Plugins], [i-PRO Active Guard Settings]
- 2. Input i-PRO Active Guard server details
- 3. Click [Save] in the top left corner

This updated method of adding i-PRO Active Guard servers now allows for multiple servers, as before only a single server could be added.

G Spearers ∧ Wetadata G Spout G Output G Output G Output	∷i∙Pl	RO				
Smart Wall     View Groups     View Groups     Smart Client Profiles     Maracement Client Profiles     Maric     Marice     Marice     Marice	Active Guard Settings Select a server in the list to ch	ange your settings	Set the IP address or hos	tname of the I-PRO Active	Guard Sever and save the configurat	ion to start the connection.
Rules     Time Profiles	Server Name or Alias	Usernar	ne			
- Notification Profiles - P User-defined Events	IP Address or Hostname	Passwo	rd			
- 💎 Analytics Events - 🍖 Generic Events	a reactor of modulation	. 0.5500		Show		
G 🚭 Security	Port					
Roles	÷ HTTP	2S				
AV2S Optimizer Security	Refresh List	Add Ser	ver Re	move Server		
System Dashboard     Gurrent Tasks     System Monitor	Name i-PRO Active Guard server	Version 1.6.0.14	Server Address 192.168.0.15:8090	HTTP / HTTPS HTTP	Number of cameras 2	
System Monitor Thresholds & Evidence Lock Configuration Reports						
Metadata Use						
Access Control						
Transaction sources						
Add Optimizer      Gerator controls      Operator controls      Optimizer      System overview	Global Log Level Normal V					
B opeaker manager						

#### Note:

If the connection fails, please check if the credentials are correct. Try to access the i-PRO Active Guard web dashboard from the XProtect Management Server.

Use [Add Server] to add additional i-PRO Active Guard servers to the XProtect system.

Refresh List	Add S	Server	Remove Server					
Name	Version	Server Address	HTTP / HTTPS	Number of cameras				
-PRO Active Guard server	1.6.0.14	192.168.0.15:809	0 HTTP	2				
i-PRO Active Guard server 2		:8090	HTTP					

## 2.2.2. ROLES CONFIGURATION (optional)

Manage XProtect Smart Client user access to the i-PRO Active Guard from within XProtect roles. From the XProtect Management Client select Security > Roles then select or create a group.

In Overall Security scroll down to i-PRO Active Guard in the Role Settings.



As default for Administrators and existing Role Groups these options are enabled. For new Roles these options will be disabled.

To enable the plugin in the XProtect Smart Client the below options need to be checked. Alternatively Full Control checked.

Read (required, please check)	✓
Smart Client access	✓
All cameras access	✓

Read – Required for access.

Smart Client access - Provides the tab for i-PRO Active Guard

All cameras access – When ticked provides access to all cameras within the XProtect system. When unticked only cameras with "Read" and "Playback" permission (on Device tab) can be used in i-PRO Active Guard plug-in.

Read and Playback Permission shown on camera device.



[New for v2.0.0]

The following options are the permissions for each watchlist. Face watchlist access

People watchlist access

Vehicle watchlist access

License plate watchlist access

OCR watchlist access.

Container watchlist access

The following options determine whether each attribute will appear in the search filter:

Attributes: People\Gender

Attributes: People\Age

Attributes: People\Hair

Attributes: People\Top

Attributes: People\Bottom

Attributes: People\Sunglasses

Attributes: People\Beard

Attributes: People\Mask

Attributes: People\Bag Attributes: People\Shoes Attributes: People\Moving direction Attributes: Vehicle\Type Attributes: Vehicle\Color Attributes: Vehicle\Moving direction Attributes: Face\Gender Attributes: Face\Age Attributes: License Plate\Vehicle Type Attributes: License Plate\Vehicle Color Attributes: License Plate\Vehicle Brand Attributes: License Plate\Vehicle Model Attributes: License Plate\Vehicle Model Attributes: License Plate\Owner Attributes: License Plate\Owner i-PRO ACTIVE GUARD PLUG-IN

# 2.3. START UP AND TERMINATE PLUG-IN

### 2.3.1. START UP PLUG-IN

To open plug-in, start-up the XProtect Smart Client and first login.

For more detail about the XProtect Smart Client, refer to the XProtect Smart Client user manual.



With the i-PRO Active Guard Plug-in installed on the XProtect Smart Client machine, you can find the application plug-in [i-PRO Active Guard Plugin] by selecting the tab as shown below.



Alternatively, i-PRO Active Guard can be added to a viewing tile from the Live tab. This allows both live camera views and the additional i-PRO Active Guard search functionality within the same window.

While in Setu	p mode, drag	a from i-PRO F	Pluains. [Ac	tive Guard \	√iew item1 i	into an emr	otv tile.

Views Exports Search	Alarm Manager 🔞 Incidents	i-PRO Active Guard System Monitor	🔺 Net secure 10:50:06 AM 🌇 🤧 🗄
XProtect «	New View (1 + 3) 🔹 🖏		Export 👻 Evidence lock 👻 🐚 🐺 Video restrictions 👻 Setup
🖽 Views 🥆	Thumbnail Search 1 🗙 🕂		X
Search views and cameras Q &	Forensic Event		
New View (1 + 3)	Filter		
The Operators     The Drivate     The Effect and the T	G         October 2024         Time range           Su         Mon Tu: We Th: Fr Su         29         30         1         2         3         4         5         Sourtime           6         7         8         9         10         11         12         Toda21 AM		
System overview  Aarms  Active Guard View Item  Control Constraints  Co	13         14         15         16         17         18         19         End time           20         21         22         23         24         25         26         10:48:21 AM           27         28         29         30         31         1         2           3         4         5         6         7         8         9		
<ul> <li>→ Wint-Liso Induited State</li> <li>→ Hotspot</li> <li>↔ Hotspot</li> <li>↔ Hitspot</li> <li>↔ Hitspot</li> <li>↔ Map</li> <li>Ⅲ Matrix</li> </ul>	Search only within Past 34 hours	Please select your filters and click Search to view results. Search	
°∭ Smart map			
=== Smart Wall	People		
Overlay buttons	● Vehicle →		
► A Camera	Eare b		
PTZ			
	Watchlist Upload photo		
Select Camera			

## 2.3.2. TERMINATE PLUG-IN

To terminate the i-PRO Active Guard Plug-in, select another XProtect Smart Client tab (Live, Playback, Exports, Search, Alarm Manager, System Monitor). The last search query and search tabs will remain for when you return to this tab within the same session.

💠 Milestone																													
Views	Ex	ports	:	Search	Al	arm M	lanage	er (8	1	ncidents	i-pro A	Active (	Guard	Syste	em Mo	nitor								0	Not secure	10:48:39 A	м	*	
																												Setup	2
Thumbnail	Search 1 🗙	+																											
	orensic			Event																									
↔		Filto	🕀 Seti																										
		Fille																											
< Su	October 2 Mo Tu We	1024 Th Fr		Time range																									
29				Start time																									
6				10:48:21 AM	1																								
13	14 15 16																												
20	21 22 23	24 25	26	10:48:21 AM																									
3	4 5 6																												
																-													
Search o	nly within 🛛 🛛	ast 24 ho	iurs	-												Ple	ease s	sele ear	lect your filters a rch to view resul	and clic Its.	ĸ								
				_																									
Came	as (5)																	1	Search										
																		÷	Jeuren										
Regio	n of interes	<b>t</b> (0)																											
	People																												
	/ehicle			•																									
	face			′																									
	Watchlist		Upload	photo																									
	•	Save filt	ers	<b>·</b> •																									
	Clear		s	earch																									

# 2.4. SEARCH DETECTED OBJECTS

Using Forensic tab, you can quickly find thumbnails of AI Camera detected objects including persons, vehicles, faces and so on.



### 2.4.1. UI Component

i-PRO Active Guard Search has three main parts,

- 1. Search filter pane,
- 2. Search result pane and
- 3. Thumbnail detail pane, also has search watchlists.

### 2.4.2. Overview

This section describes the elements that compose the recording search.



Search filter	Setup watchlist	Add new search watchlist.						
pane	Date/Time filter	Start time and end time for search objects.						
	Seach only	Select from Past 24 hours/Past week/Past month/None.						
	within	- When select other than None, Date/Time filter are ignored.						
		- When specify Date/Time filter, this setting will automatically become None.						

	Cameras filter	Specify AI Cameras for search objects.							
	Region of	[New for v2.0.0]							
	interest	Specify areas for search object.							
		* Only Faces, People, and Vehicles support combined searches.							
	Face filter	Show face thumbnails.							
	People filter	Specify personal features such as gender, age, hair color, etc.							
	Vehicle filter	Specify vehicle features such as type, color, etc.							
	LPR filter	Specify license plate features.							
	OCR filter	[New for v2.0.0]							
		Specify OCR Code.							
	Container filter	[New for v2.0.0]							
		Specify Container code, Size code and features such as Owner country, etc. of Container.							
	Save filters	Save filter settings with name (up to 12).							
	Clear	Clear filter settings.							
	Search	Start thumbnail search.							
Search	Sort	Sort search results by descending, ascending and analysis score.							
result panes	Zoom in/out	Zoom in and out thumbnail results area.							
	Detected thumbnail	Click and open the thumbnail detail pane. Right-click and save the thumbnail as a picture or video clip.							
	Results count	Show the thumbnail search results count.							
Thumbnail detail pane	Thumbnail detail pane	Video control, information such as camera location, analysis score and camera information. Refer to <u>About thumbnail detail pane</u> for detail.							
Report	Export	Provides a HTML export of the current results.							
Set up	Face watchlist	Setup face watchlist.							
watchlists	People watchlist	Setup a people watchlist.							
	Vehicle watchlist	Setup a vehicle watchlist.							
	LPR watchlist	Setup a LPR watchlist.							
	OCR watchlist	[New for v2.0.0]							
		Setup OCR watchlist.							
	Container	[New for v2.0.0]							
	watchlist	Setup Container watchlist.							

### 2.4.3. About search filters

This section describes search filters that can narrow the search results down.

#### A. Camera filter

Select the cameras to be searched from the available camera list.

Using Find camera by features, you can select only cameras which have specific AI capabilities.

Users can select cameras from multiple servers at the same time.



#### B. Region of interest filter (new for v2.0.0)

With the Region of interest filter enabled, only thumbnails of the specified area will be displayed.

\* Only Faces, People, and Vehicles support combined searches.

Select the camera to search from the list of available cameras and specify the area by mouse drag on the displayed image.

Up to 4 areas can be specified for each camera.

To delete the area, press the "Clear the area" button.



#### Note:

• The thumbnail of the search result is the clearest image of the detection target while he is moving in the view angle. They may not be images within the area specified in this setting.



• If you change resolution of the camera used in this filter, re-set the region of interest.

#### C. Face filter

With the Face filter enabled, only the thumbnails are shown from AI Cameras with the face detection application enabled and where a face is detected.



This option now allows for a picture to be uploaded to find the same or similar faces. When [Upload photo] is selected, a new window is shown to the left.

Drag and drop a photo into this window or select [Upload from file] to navigate and select the photo from the computer. Supported image types are PNG or JPG/JPEG.

With a photo uploaded, if a face is detected it will be shown within a white box. Select the image you wish to use when multiple faces are detected and press [Search].



Search results will be shown, and the face search tile will update with the selected face being used. Adjust the [Accuracy threshold] for more or less results based on the Accuracy score.



#### D. People filter

With the People filter enabled, only the thumbnails are shown from AI Cameras with the people detection application enabled.



Using the filter pane, you can apply additional search conditions.



Features and controls	Description
Detected object	Uploading people picture If picture is uploaded, features are automatically detected.
Gender	Male, Female
Age	Child (0~10), Young Adult (11~20), Adult (21~60), Senior (61+)
Hair type	Long-hair, Short-hair, Hat

Hair color	Black, Gray, White, Brown, Gold
Top type	Short-sleeves, Long-sleeves
Top color	Black, Gray, White, Brown, Orange, Yellow, Green, Blue, Purple, Pink, Red
Bottom type	Long, Short
Bottom color	Black, Gray, White, Brown, Orange, Yellow, Green, Blue, Purple, Pink, Red
Sunglasses	Sunglasses, No Glasses
Beard	Beard, No Beard
Mask	Mask, No Mask
Bag	Bag, No Bag
Bag color	Black, White, Brown, Orange, Yellow, Green Blue, Purple, Pink, Red
Shoes color	Black, White, Brown, Yellow, Green, Blue, Red
Moving Direction	Up, Up right, Right, Down right, Down, Down left, Left, Up left
Others	Recognizable face only
	Color image only
	Note:
	Black & white images may show in the search results even if only Color image only is specified.
Threshold	Low, Medium and High
Exclude selected color	If this is selected, the color will be excluded from the search results.
Include similar color	If this selected, the color similar to the specified color will be automatically selected.

#### Note:

If the specified color does not appear in the search results, it may be displayed in the search results by selecting and searching for the following similar colors together.

Color to be searched	Similar color(The order is similar to the left)
Black	Gray
Brown	Orange, White, Gray
White	Gray, Blue, Brown, Yellow, Orange
Gray	Black, White, Blue
Green	Blue, Black, Yellow
Red	Orange, Pink
Blue	Green, Black, Purple
Yellow	Green, White, Brown, Orange
Orange	Red, Brown, Yellow
Purple	Pink, Blue, Black
Pink	Red, Purple

#### E. Vehicle filter

With the Vehicle filter enabled, only the thumbnails are shown from AI Cameras with the vehicle detection application enabled.



Using the filter pane, you can apply additional search conditions.

Refine filters		×
		Advanced Filters 🖣
Search by photo		
Detect object	ct	
Vehicle type		Threshold
		Low Average High
Vehicle color * *C	olor is ignored for "Two-Wheel"	Threshold
		Low Average High
		Include similar color
Moving Direction		
<u></u> , <b>€</b> <sup>≜</sup> , <b>₹</b> ,		
k <sup>↑</sup> ×		
Additional filters		
Color image only		
		Low Average High
		Apply to all threshold filters
	Clear all filters	

Features and controls	Description
Detected object	Uploading vehicle picture If picture is uploaded, features are automatically detected.
Туре	Sedan, Van, SUV, Truck, Bus, Pickup Truck, Two-Wheel
Color	Black, Grey, White, Brown, Yellow, Green, Blue, Purple, Pink, Red
Moving Direction	Up, Up right, Right, Down right, Down, Down left, Left, Up left
Others	Color image only

	Note)
	Black & white images may show in the search results even if only
	Color image only is specified.
Threshold	Low, Medium, High
Include similar color	If this selected, the color similar to the specified color will be
	automatically selected.

#### Note:

If the specified color does not appear in the search results, it may be displayed in the search results by selecting and searching for the following similar colors together.

Color to be searched	Similar color(The order is similar to the left)
Black	Gray
Brown	White, Gray
White	Gray, Blue, Brown, Yellow
Gray	Black, White, Blue
Green	Blue, Black, Yellow
Red	Pink
Blue	Green, Black, Purple
Yellow	Green, White, Brown
Purple	Pink, Blue, Black
Pink	Red, Purple

#### F. LPR filter

With the LPR filter enabled, only the thumbnails are shown which license plate detection app detected.



Also using filter panel, you can apply the search condition.



Features and controls	Description
License plate	Specify a License plate number.
	Note:
	Use '%' for wild card search
	(example: for plates starting with 'A,' enter 'A%.')
Country	Specify the country
State *1	Specify the state
Moving Direction	Towards/in, Away/out, Stopped
Туре	Car, Van, Truck, Bus, Motorcycle, (New for v2.00)Mini-Van, SUV, Pickup
Color	Black, Gray, White, Beige, Brown, Orange, Golden, Yellow, Green, Blue, Purple, Red
Brand	Specify the brand
Model *2	Specify the model
Additional filters	Color image only
	Note:
	Black & white images may show in the search results even if only Color image only is specified.

\*1 : State is displayed when Country is set to "United States" or "Australia".

\*2 : Model is displayed after setting Brand.

#### G. OCR filter (new for v2.0.0)

With the OCR filter enabled, only the thumbnails are shown which VaxOCR GENESIS app detected.



Also using filter panel, you can apply the search condition.

Refine filters	. ×		
OCR Code 🛈	Enter OCR Code		
Additional filter	5		
Color image only			
	Clear all filters		

Features and controls	Description
OCR Code	Specify OCR Code.
	Note)
	Use '%' for wild card search
	(Example: for OCR Code starting with 'A,' enter 'A%.')
Additional filters	Color image only
	Note)
	Black & white images may show in the search results even if only Color image only is specified.

#### H. Container filter (new for v2.0.0)

With the Container filter enabled, only the thumbnails are shown which VaxOCR CONTAINER app detected.



Also using filter panel, you can apply the search condition.



Features and controls	Description
Container code	Specify Container code.
	Note)
	Use '%' for wild card search
	(Example: for container code starting with 'A,' enter 'A%.')
Size code	Specify the size code.
	Note)
	Use '%' for wild card search
	(Example: for size code starting with 'A,' enter 'A%.')
Owner country	Specify the owner country.
Owner city	Specify the owner city.
Owner company	Specify the owner company.
Additional filters	Color image only
	Note)
	Black & white images may show in the search results even if only Color image only is specified.

### 2.4.4. About thumbnail detail pane

Selecting one of the thumbnails in the search results, you can take various actions such as the playback of video, check detection info and register a thumbnail to a watchlist. For additional information about playback controls, please refer to **2.6. PLAYBACK VIDEO CONTROL**.



#### Information

You can see more detailed information such as detected place, the analysis information, and camera information.

#### A. Selected snapshot

The selected snapshot will be shown on the left-hand side.



#### B. Playback of event

Playback will as default start 5 seconds before the event and will continue to playback for the selected camera.

See i-PRO Active Guard Preferences for additional playback settings.

#### Note:

Right click the camera tile to switch between playback and live for the selected camera.



#### C. Detected info

Analysis score information for each detection type is displayed here.

Detected info	Camera info	
Gender	Male: 97%	
Age	Adult: 80%	
Hair style	Short Hair: 99%, Hat: 80%	
Hair color	N/A	
Top type	Long: 64%, Short: 35%	
Top color	Red: 81%	
Bottom type	Short: 89%	
Bottom color	Brown: 92%	
Sunglasses	None: 81%	
Beard	Yes: 30%, None: 69%	
Mask	None: 99%	
147-1-0-4-	B	

#### D. Camera info

Camera information is displayed here.

Manufacturer	Panasonic	
Model	WV-S2136L	
IP Address	192.168.0.30	
Camera name	S2136L PeopleDemo	
Server	9999	
CameralD	D42DC513803E	
WebAccess	http://192.168.0.30	

#### Action buttons

This allows users quick user operation of tasks. One-click to access, register watchlists, save facial features and search for similar characteristics.



#### A. Search for similar characteristics

Quick search is provided to allow for an instant search using the same detection features with high scores.

- [Search for exactly similar characteristics (less false results)] Similar search with high accuracy
- [Search for similar characteristics (fewer missing results) Similar search with lower accuracy
- [Search for similar face] Face only search results where face is detected in image
- [Search for license plate number] Selectable when license plate number in LPR image is detected.

.

#### [New for v2.0.0]

- [Search for OCR code] Selectable when OCR code in OCR detection image is recognized.
- [Search for Container code] Search for similar images by searching for cameras that OCR detection is installed.

If you want to go back to previous search results and use the Latest search condition in Saved filters.

#### B. Save facial features to Registered facial detection

Register face image to watchlist. There are options to either register a newly detected face or add a detected face thumbnail to an existing face watchlist.



#### Note:

- Face can be registered up to 30,000 (new for v2.0.0). Up to 1,000 faces can be shown at the same time. If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.
- Recommended with of face for registration is more than 75 pixel. When the selected face is under the value, message is shown.

C. Save person's characteristics to Registered Person detection

Register personal features to a watchlist. The high scoring items are registered.

Some basic information can be entered from here.



#### D. Save vehicle's characteristics to Registered Vehicle detection

Register vehicle features to watchlist. High score items are registered.

Some basic information can be entered from here.



#### E. Save license plate number to LPR detection

Register license plate, country, state are registered. Some basic information can be entered from here.



F. Save OCR Code to OCR detection (new for v2.0.0)

Register OCR Code to watchlist.

Some basic information can be entered from here.

	New Registration for OCR Code	×
i-PRO Active Guard server	192.168.0.229	÷
	A8C123	
	Select group	<b>*</b>
Validity period	O	
Remarks	1	
	Cancel Save	

### G. Save container code to Container detection (new for v2.0.0)

Register Container features to watchlist.

Container code, Size code, Owner country, Owner city, Owner company are registered.

Some basic information can be entered from here.

N	ew Registration for Container code	×
i-PRO Active Guard serv	192.168.0.229	
Container code <sup>®</sup> (i)	ABC123	
Size code 🛈		
Owner country	Select owner country	
Owner city	Select owner city	
Онтег сотралу	Select owner company	
Group	Select group	
Validity period		
Remarks		
	Cancel Save	

#### Action buttons can be utilized depending on the type of object.

	Search for similar characteristics	Save facial features to Registered facial detection	Save person's characteristics to Registered Person detection	Save vehicle's characteristics to Registered vehicle detection	
Face filter	Yes	Yes	No	No	
People filter	Yes	Yes	Yes	No	
Vehicle filter	Yes	No	No	Yes	
LPR filter	Yes	No	No	No	
OCR filter	Yes	No	No	No	
Container filter	Yes	No	No	No	

	Save license plate number to LPR detection *1	Save OCR Code to OCR detection	Save Container code to Container detection	
	(2000)	[OCR]		
Face filter	No	No	No	
People filter	No	No	No	
Vehicle filter	No	No	No	
LPR filter	Yes	No	No	
OCR filter	No	Yes	No	
Container filter	No	No	Yes	

\*1 In case of the thumbnail doesn't have license plate number information, button does not display.

Ex) In i-PRO Active Guard Sever settings,

[Configure System] - [Database] – [Storing data] "License plate number" is unchecked case.

## 2.4.5. Thumbnail search

The following steps provide the basic operation of the thumbnail search feature. The search filter can find objects using search filters from the recorded thumbnails. You will be able to follow with actions such as video playback, saving snapshots, registering to a watchlist, etc.

Stop 1	⇔	🕂 Setup watchlis	lists
Step 1	Fi	lter	
	< August 2023	Time rang	nge
	30 31 <b>1 2 3</b>	4 5 Start time	
	6 7 8 9 10	11 12 3:44:46 P	PM
	13 14 15 16 17 20 21 22 23 24	18 19 End time 25 26	
	27 28 29 30 31	1 2	PM
Step 2	3 4 5 6 7		
	Search only within Pas	t 24 hours 💌	•
	Cameras (9)		
Step 3	(0)		_
	People		•
	N-ht-h-		
	Face		•
	Watchlist	Upload photo	
	No watchlist Accu yet	racy threshold 50	
	0	100	00
	🎔 Savi	e filters	•
Step 4	Clear	Search	

#### Step 1

Specify the start time and end time for search objects.

#### Step 2

Select AI Cameras to be used from any i-PRO Active Guard servers connected to XProtect.

#### Step 3

Set up search filters, Face, People or Vehicles. If no filters are selected, all objects detected by AI Cameras will be displayed.

#### Step 4

Click "Search".

Search results will be displayed in the center tile.

Milestone XProtect Smart O	lient	1/20/2023 6/12/28 9/1	×
Live Playback	Exports Search	Alarm Manager 🥐 📑 PRO Active Guard Plugin System Monitor 🗢 🛛 🕈	
		Srhip	
Active Guard Search		4	
Setup watchlists		Descending date 1. 2.	ì
Fine	ers	20/01/2023 19:00-18:00	Π
Date/Time			
Start 19.01.2023 18:08:00			
End 20.01.2023 18:08:00		AND AREA MADE AND	
Cameras (2)	•		
Face	•	AND A COMPANY AND	
Watchlist	Upload photo		
· · · · · · · · · · · · · · · · · · ·		and the second	
No watchlist or Acourse	y threshold 50		
yet			
0	100		
People	<b>X</b>	20(41(202) 1004-17500	
Search only within	Past 24 hours 🔹		
		3. Load More	
Save	filters V		
Clear	Search	100/2447 results from 1 Active Guard Servers.	

- 1. Change the [Sort order], default Descending date (new to old) or Ascending date (old to new).
- 2. Use the [Zoom-out Zoom-in] slider to display more results smaller or less results larger.
- 3. [Load More], selecting this button will load up to another 100 results.
- 4. [Export] See section 3.2.6 Thumbnail Export

When a tile is selected Playback and further capture information is made available in the side panel.



#### Note:

Right click the camera tile to switch between playback and live for the selected camera.

# 2.4.6. Thumbnail export

Select the [Export] button at the top right of the thumbnail result window.



You will be asked to save a web page file. Open this file to view the results from the search window.



#### Note:

• The results shown in the web page export only relate to the results displayed in the search window. Where results are more than 100 only the first 100 will be exported. This can be updated by selecting [Load More] another 100 results will be included in the display window; these will now be included with the export. If there are more than 100 results in your search it may be best to update the search criteria to further limit results before exporting.
# 2.5. PAST EVENT SEARCH (new for v2.0.0)

# 2.5.1. Overview

Using Event tab, you can find past events whatever you want to search





Event list pane

Event filter	Date/Time	Start time and end time for search.
pane	Search only within	Select from Past 24 hours/Past week/Past month/None.
		- When select other than None, Date/Time filter are ignored.
		<ul> <li>When specify Date/Time filter, this setting will automatically become None.</li> </ul>
	Cameras	Specify AI Cameras displaying events.
	Registered Face detection	Show face matching events.
	Registered People detection	Show personal features matching events.
	Registered Vehicle detection	Show vehicle features matching events.
	Sound	Show sound detection events.
	AI-VMD	Show AI VMD detection events.
	AI Scene change	Show AI Scene change detection events.
-	Occupancy	Show Occupancy detection events.
	LPR	Show below events. *1

		- License plate detection events.
		<ul> <li>Registered license plate detection events.</li> </ul>
		<ul> <li>Unregistered license plate detection events.</li> </ul>
		<ul> <li>Registered advanced vehicle detection events.</li> </ul>
	OCR	Show below events. *2
		- Code detection events.
		- Registered code detection events.
		- Unregistered code detection events.
	Container	Show below events. *3
		- Container detection events.
		- Registered container detection events.
		- Unregistered container detection events.
		- Registered advanced container detection events.
	Save filters	Save filter settings with name up to 12.
	Clear	Clear filter settings.
	Apply	Activate filter settings.
Events list	Date/Time column	Detected date and time which is setup at camera.
pane	Camera column	Camera name.
	Event name column	Event type.
	Detected column	Detected thumbnail which is captured by camera.
		Click and open event detail pane. Right click and save the
		thumbnail as picture.
	Registered column	Registered images or names in watchlist.
		Registered column is only for matching event.
	Details column	Object type, detected area, detected score, etc. Displayed information depends on event type.
	Status column	Status for each event. New (Default)/Viewed/Dismissed
		Status can be changed by right click. You can select multiple events using "ctrl" or "shift."
		Up to 50 events can be changed at the same time.
	Comments column	Any comment up to 64 characters can be input.
	Result count	Show the events search results count.
	Load More	Load next 100 events.
Event detail pane		Video control pane, information such as analysis score and camera information.
Export		Export event list as CSV or HTML.
Set up	Faces watchlist	Setup Faces watchlist.
watchlists	People watchlist	Setup People watchlist.
	Vehicles watchlist	Setup Vehicles watchlist.
	LPR watchlist	Setup LPR watchlist.
	OCR watchlist	Setup OCR watchlist.
	Container watchlist	Setup Container watchlist.

### \*<u>1 LPR events summary</u>

- License plate detection
  - Notifies all detected license plates received by the i-PRO Active Guard server.
  - Set "Notify all detected objects License plates" on "Register VMS" in WEB setting is required.
- Registered license plate detection

Notification when the license plate number registered in the LPR watch list matches.

- The following settings are required on "LPR watchlist setup."
  - · Set "Detect by vehicle appearance only" to "Off."
  - · Set "Trigger" to "When license plates in the selected group was detected".
- Unregistered license plate detection

Notification when the license plate number unregistered in the LPR watchlist detected.

The following settings are required on "LPR watchlist setup."

- · Set "Detect by vehicle appearance only" to "Off."
- · Set "Trigger" is set to "When other than license plates in the selected group was detected".
- Registered advanced vehicle detection

Notification when the vehicle appearance in the LPR watch list matches.

The following settings are required on "LPR watchlist setup."

• Set "Detect by vehicle appearance only" to "On."

### \*2 OCR events summary

- Code detection

Notifies all detected code received by the i-PRO Active Guard server.

Set "Notify all detected objects - Code" on "Register VMS" in WEB setting is required.

- Registered code detection

You will be notified when you set OCR watchlist to below settings on i-PRO Active Guard plug-in.

Set "Trigger" to "When OCR Code in the selected group was detected."

- Unregistered code detection

You will be notified when you set OCR watchlist to below settings on i-PRO Active Guard plug-in. Set "Trigger" to "When other OCR Code which is not in the selected group was detected."

### \*3 Container events summary

- Container detection

Notifies all detected container received by the i-PRO Active Guard server.

Set "Notify all detected objects - Container" on "Register VMS" in WEB setting is required.

- Registered container detection

Notification when the container registered in the Container watchlist matches.

The following settings are required on "Container watchlist setup."

- Set "Detect by container details" to "Off."
- · Set "Trigger" to "When Container in the selected group was detected".
- Unregistered container detection

Notification when the container unregistered in the Container watchlist detected.

The following settings are required on "Container watchlist setup."

• Set "Detect by container details" to "Off."

• Set "Trigger" is set to "When other container which is not in the selected group was detected".

- Registered advanced container detection

Notification when the container details in the Container watchlist matches.

The following settings are required on "Container watchlist setup."

· Set "Detect by container details" to "On."

# 2.5.2. About Event filter

### A. Registered Face detection

Being this filter enabled, the matching faces with Face watchlist are shown.



If you want to display a specific face, you can use Watchlist filter. Search registered faces by specifying seach conditions then select one of results.

If you want to clear after setting, right click on the face image in the left panel then select Clear.



It is also possible to display by category registered in Watchlist.

# B. Registered People detection

With this filter enabled, all the matching people with People watchlist are shown.

Also using filter panel, you can select specific registered items from people watchlist.

C. Registered Vehicle detection

With this filter enabled, all the matching vehicle with vehicle watchlist are shown.







Registered people detection



.

fine watchlist filters

Also using filter panel, you can select specific registered items from vehicle watchlist.

D. Sound

With this filter enabled, all the detected sound events are shown.

Also using filter panel, you can select specific sound events to show.

# E. AI-VMD

With this filter enabled, all the detected AI-VMD events are shown.

Also using filter panel, you can select specific Detected type and Object type to show.

By using On-site Learning application, you can increase any Object type. Please refer to the manual for details about On-site Learning application.



**Refine filters** 

Detected type





Sound



### F. Occupancy

With this filter enabled, all the detected occupancy detection events are shown.

#### G. Al Scene change

With this filter enabled, all the detected scenes change detection events are shown.

#### H. LPR

With this filter enabled, all the matching License plate with LPR watchlist and all detected license plates are shown.

i-PRO Active Guard Server configuration is required to display all detected license plates

see "i-PRO Active Guard Setup Instructions"

- 4.3.6 Notification to VMS Server(optional)

Also using filter panel, you can select specific registered items from LPR watchlist

#### I. OCR

With this filter enabled, all the matching code with OCR watchlist and all detected code are shown.

i-PRO Active Guard Server configuration is required to display all detected codes

see "i-PRO Active Guard Setup Instructions"

- 4.3.6 Notification to VMS Server(optional)

Also using filter panel, you can select specific registered items from OCR watchlist



Al Scene change

Occupancy detection

Off







### J. Container

With this filter enabled, all the matching container code with Container watchlist and all detected containers are shown.



i-PRO Active Guard Server configuration is required to display all detected containers.

see "i-PRO Active Guard Setup Instructions"

- 4.3.6 Notification to VMS Server(optional)

Also using filter panel, you can select specific registered items from Container watchlist



# 2.5.3. About event detail pane

By selecting one of the events from the list, you can take various actions such as playback video, open live camera, and register the thumbnail to watchlist and so on. Please refer to the section of 2.4.4 About thumbnail detail pane regarding of each function.

Details for playback control, please refer to 2.6 PLAYBACK VIDEO CONTROL.

Action buttons can be utilized depending on type of events.

	Search for similar characteristics	Save facial features to Registered facial detection	Save person's characteristics to Registered Person detection	Save vehicle's characteristics to Registered vehicle detection
	Q	6	•	
Registered face detection filter	Yes	Yes	No	No
Registered people detection filter	Yes	No	No	No
Registered vehicle detection filter	Yes	No	No	No
AI-VMD	No	No	No	No
Sound	No	No	No	No
LPR	Yes	No	No	No
OCR	Yes	No	No	No
Container	Yes	No	No	No
AI Scene change	No	No	No	No

	Save license plate number to LPR detection *1	Save OCR Code to OCR detection	Save Container code to Container detection	
	(1111)	[DCR]		
Registered face detection filter	No	No	No	
Registered people detection filter	No	No	No	
Registered vehicle detection filter	No	No	No	
AI-VMD	No	No	No	
Sound	No	No	No	
LPR	Yes	No	No	
OCR	No	Yes	No	
Container	No	No	Yes	
Al Scene change	No	No	No	

\*1 In case of the thumbnail doesn't have license plate number information, button does not display.

Ex) In i-PRO Active Guard Sever settings,

[Configure System] - [Database] – [Storing data] "License plate number" is unchecked case.

# 2.6. PLAYBACK VIDEO CONTROL

When viewing a video from a thumbnail in the event detail pane, the following XProtect video controls appear.



The video operation controls are described below.

◄ ►	In pause mode, forward and backward navigation through each frame on the timeline.
$\triangleleft$	Play, forward and backward navigation through related footage.
11	Pause mode
	Add to Export list (new for v2.0.0)

Right-click the middle of the camera tile to access Live video from the selected camera. Right click again to return to the recording playback.

Additional controls of the timeline can be found by right clicking the playback timeline.





Additional controls can be found by right-clicking a search thumbnail.

Save snapshot
Popup Live
Popup Playback
Open camera in Playback tab (Add in new 1x1 layout)
Open camera in Playback tab (Add in new 2x2 layout)
Open camera in Playback tab (Add in new 3x3 layout)
Open camera in Playback tab (Add in new 4x4 layout)
Add to export list

[Popup Live] automatically sends the camera device related to the thumbnail to a single tile popup Live view.

[Popup Playback] automatically sends the camera device related to the thumbnail to a single tile popup Playback view. This option provides access to XProtect export features at the playback time of the event.



From here you gain access to XProtect features [Snapshot], [Print], [Bookmarks], [Export] ect...

Standard Snapshots are sent to the default directory or user defined location (C:\Snapshots).

These images show the complete image from the selected camera.



When selecting [Save Snapshot] you will be asked where to save the image.

This snapshot is taken directly from the i-PRO Active Guard server, provided as the Best Shot image. This image is cropped based on the capture object.



When selecting [Open camera in Playback (Add in new {n} x {n} layout)] you will be presented with four layout options. This way you can define additional cameras to be included manually in your Playback/Export selection.

### [New for v2.0.0]

[Add to export list] Add the camera, time information of selected image into Exports tab.

START TIME and END TIME depends on the 2.8 plug-in configuration, *Start playback* and *End playback*.

You can also adjust the time on Exports tab.



# 2.7. SETUP WATCHLISTS

This section describes how to manage the watchlists and preferences. To open these settings, click [Setup watchlists] button for Face watchlists or People watchlists.

Active Guard Search	× +
🛨 Setup watchlists	•
Fi	lters
Date/Time	

# 2.7.1. Face Watchlist

This section describes the operation of add, edit and delete.

If you don't have permission to access the watchlist or if your camera configuration has no AI-Cameras with an installed face detection application, then this function is not available.

### Add Registration

### Step 1

From the Search pane, select the relevant face to be added. From the playback window, click the Save person's characteristics action button.



### Step 2

In the window that follows, click the New Registration button.



### Step 3

One face image must be added to complete the registration.

Input other information then click Save. The <u>First Name</u> and <u>Last Name</u> fields are required.

Add new face registration	-	×
Information		
Representative face image		
Server	i-PRO Active Guard server 🔹	1
First Name	John	
Last Name	Smith	
Age	4	
Gender	O Male ● Fernale ● Arbitrary	
Remarks		
Matching	O on Off	
Category	Visito	
Alarm threshold	50 🔣 Low High	
Validity period		
	Cancel Save	

### Note:

- When Matching is enabled [On], this starts the matching process. See <u>Watchlist Matching</u> for more details.
- When the Alarm threshold is low, face detection will be missed less, but false alarms may increase. If the Alarm threshold is raised too high, face detection is likely to be missed more frequently, but false alarms may be reduced. This can be set for each individual face watchlist profile. Please adjust according to your environment and registered face image.
- In the Validity Period, two expiration dates can be set.
   <u>Disable matching</u>: After the expiration date, this person's face will not be detected.
   <u>Delete registration</u>: After the expiration date, we will delete the registration itself of this face watchlist.

# • Edit Registration

# Step 1

First click Setup watchlists from the main window and click Face watchlist.

Find the registered face you want to edit; these can be searched with filtered results.

	People watchlists		Face watchlists
First Name	T		
Last Name			
Age range	0	~	
Gender	🗢 Male 🔎 Femal	e O Arbitrary	
Comments			
Matching	On ● Off		
Category		~	
Clea	r	Search watchlist	
			Number of registered face images: 0
			Change

### Step 2

Select one of the faces from search results, then click the <u>Change</u> button.



### Step 3

Edit any information then click Save.

Add new face registration			-		×
Information					
Representative face image					
		2			
First Name					
Last Name					
Age					
Gender	Male	Female	O Arbitrary		
Remarks					
Matching	• On	O Off			
Category				)	
Alarm threshold	50	Low	•	- 3	ligh
Validity period					
Canc	el	S	ave		

### Note:

- When Matching is enabled [On], this starts the matching process. See <u>Watchlist Matching</u> for more details.
- When the Alarm threshold is low, face detection will be missed less, but false alarms may increase. If the Alarm threshold is raised too high, face detection is likely to be missed more frequently, but false alarms may be reduced. This can be set for each individual face watchlist profile. Please adjust according to your environment and registered face image.
- In the Validity Period, two expiration dates can be set.
   <u>Disable matching</u>: After the expiration date, this person's face will not be detected.
   <u>Delete registration</u>: After the expiration date, we will delete the registration itself of this face watchlist.

# Delete Registration

To delete a registered face, right-click registered face then click Delete. Other controls are available here Enable Matching and Disable Matching.

•				-		×
	People watchlists		Face watch	lists		
First Name						
Last Name						
Age range	0		tes	Disable Matching	g Ig	
Gender	🔵 Male 🌘	Female O Arbitrary		Delete negisirat		
Comments						
Matching	🔍 On 🌑 C	ff				
Category		-				
Clear		Search watchlist				
			Number of re	gistered face	e image	es: 2
				Cha	nge	

# 2.7.2. People Watchlist

This section describes the operations of a People watchlist and how to add, edit, and delete.

If you don't have permission to access the watchlist or if your camera configuration has no AI-Cameras with an installed people detection application, then this function is not available.

### Add Registration

To register a person's appearance to the watchlist, navigate to Set up watchlists button > People tab.



Registered items are listed on the left side, or it uploads the people picture.

To add new item, click "+ Create a new watchlist" button then select appearance items.

Watchilsts Setup					
	People				
Saved watchlists Search by F-PRO Active Guard 5	Watchlist name	Suspicieus people 03			
192.166.0.227	Carnera	Cameran (1)			
Suspicious people D1 Suspicious people D2					
Suspecces people (0) +	Search by photo	[See April]			
	Арремансе				
	Gender	🗌 Male 🔲 Fenale			
	Apr	🗌 Child 🔹 Young Adult 🛄 Adult	Serier		
	Hair type	9.9.9			
	Hair color		Exclude selected color		
	Top type				
+ New watchist	Clear all filters	Enable motifications	Cancel Sant watching		

### • Add Registration (To select attributes from an image)

This procedure automatically selects and registers attributes from an image.

Watchlists Setup People | Saved watchlists Suspicious people 11 Search by i-PRO Active G ard S... ive Guard 150 + le 01 \* ple 02 \* le 03 le 06 e 06 1 Male Female ple 08 Child Young Adult Adult Senior la 09 -Exclude selected color

To select attributes from a people image, select the image to be registered from **b** icon.

Select the people you want to register from the detected list.



Make sure the attribute is automatically selected, and then click "Save".

		Watchlists Setup
	People	Faces   Vehicles   LPR
Saved watchlists	Watchlist name	Suspicious people 10
Search by i-PRO Active Guard S	Camera	Cameras (4) 🕨
Suspicious people 01 Suspicious people 02 Suspicious people 03 Suspicious people 05	Search by photo	
Suspicious people 06	Appearance	
Suspicious people 07	Gender	Male 🗹 Female
Suspicious people 08	Age	
Suspicious people 09 Suspicious people 10 +	Hair type	
	Hair color	Exclude selected color
	Top type	
+ New watchlist	Clear all filte	ters Enable notifications Cancel Save watchlist

### Note:

- Basically, only one item can be selected from each category. This is because many items register would affect false positives.
- **[New for v1.8.1]** Color specification except for bag color allows specifying multiple items. When <u>Validity Period</u> is selected, two expiration dates can be set.

Disable matching: After the expiration date, this person will not be detected.

Delete registration: After the expiration date, we will delete the registration itself of this person.

### • Edit Registration

To edit a registered person's appearance, select one of the listed registered items then change the selected appearance for this item.

Saved watchlists				
Search by i-PRO Active Guard S				
i-PRO Active Guard 150				
Suspicious people 01 *				
Suspicious people 02				
Suspicious people 03				
Suspicious people 04				
Suspicious people 05				
Suspicious people 06				

### • Delete Registration

To delete a registered person's appearance, right click one of registered item.



# 2.7.3. Vehicle Watchlist

This section describes the operation of add, edit, and delete.

If you don't have a permission to access the watchlist or your camera configuration has no Al-Camera which installed vehicle detection application, then this function is not available.

### • Add Registration (To manually select attributes)

To register a vehicle's appearance to the watchlist, navigate to Set up watchlists button > Vehicle tab.

Watchlists Setup				
	People   Faces   <u>Vehicles</u>   LPR			
Saved watchlists				
Search by i-PRO Active Guard S				
192.168.0.227 👻				
Suspicious vehicle 01				
Suspicious vehicle 02				
	+ Create a new watchlist			

Registered items are listed on the left side, or it uploads the vehicle's picture.

To add new item, click "+ Create a new watchlist" button then select appearance items.

		Watchlists Setup	×
		Faces   <u>Vehicles</u>   LPR	
Saved watchlists	Watchlist name	Suspicious vehicle 03	
192.168.0.227	Camera	Cameras (4)	
Suspicious vehicle 02 Suspicious vehicle 03 +	Search by photo	<b>Descatijet</b>	
	Appearance		
	Vehicle type		
		*Color is ignored for "Two-Wheel"	
	Vehicle color*		
	Color image o	nly	
	Alarm sensitivity	Low Average High	
	Validity period		
+ New watchlist	Clear all filters	Enable notifications     Cancel     Save watchist	

• Add Registration (To select attributes from an image) This procedure automatically selects and registers attributes from an image.

To select attributes from a vehicle image, select the image to be registered from icon.

	Watchlists Setup	×
	People   Faces   <u>Vehicles</u>   LPR	
Saved watchlists	Watchlist name Suspicious vehicle 03	
Search by i-PRO Active Guard S 192.168.0.227	Camera Cameras (4)	
Suspicious vehicle 01 Suspicious vehicle 02 Suspicious vehicle 03 +	Search by photo Desc object	
	Appearance	
	Vehicle type	
	Véhicle color*	
	Color image only	
	Alarm sensitivity Low Average High	
	Validity period	
+ New watchlist	Clear all filters Enable notifications Cancel Saw	watchlist

The following procedure is the same as when registering people watchlists.

### Note:

- Up to 12 vehicle watchlist can be registered.
- Only one item can be selected from each category. This is because many items register would affect false positives.
- In Validity Period, two expiration dates can be set.
   Disable matching: After the expiration date, this person's face will not be detected.
   Delete registration: After the expiration date, we will delete the registration itself of this vehicle.
- It is impossible to register to multiple i-PRO Active Guard server at the same time.

### • Edit Registration

To edit a registered vehicle appearance, select one of registered item then change selected appearance item.

Saved watchlists			
Search by i-PRO Active Guard S			
i-PRO Active Guard 150			
Suspicious vehicle 01			
Suspicious vehicle 02 *			
Suspicious vehicle 03			

### Delete Registration

To delete a registered vehicle appearance, right click one of registered item.

Saved watchlists					
Search by i-PRO Active Guard S					
i-PRO Active Guard 150					
Suspicious vehicle 01					
Suspicious vehi	Delete				
Suspicious vehi	Сору				

# 2.7.4. LPR Watchlist

This section describes the operation of add, edit, and delete.

If you don't have a permission to access the watchlist or your camera configuration has no Al-Camera which installed VaxALPR application, then this function is not available.

### Add Registration

To register a vehicle's appearance or License plate to the watchlist, navigate to

Set up watchlists button > LPR tab.



Registered items are listed on the left side, or it uploads the vehicle's picture.

To add new item, click "+ Create a new watchlist" button.

### • Add Registration (vehicle appearance)

Set "Detect by vehicle appearance only" to "On," then select appearance items.



### Add Registration (License Plate Group)

Set "Detect by vehicle appearance only" to "Off," then select license plate group and Trigger.

### Note:

License plate numbers cannot be set directly in the watchlist. Please register the license plate to license plate group. About license plate group, please see 2.6.4.1. About license plate, please see 2.6.4.2.

	١	Watchlists Setup	×
		ices   Vehicles   <u>LPR</u>	
Saved watchlists			+ Manage license plate
Search by i-PRO Active Guard S	Watchlist name	Suspicious LPR 03	
192.168.0.227	Camera	Cameras (2)	
Suspicious LPR 01			
Suspicious LPR 02	Detect by vehicle a	ppearance only	
Suspicious LPR 03 +	Group	Select group	
	ingger	When license plates in the selected group was detected When other than license plates in the selected group was detected	ted
		_	
	Validity period		
	Remarks		
+ New watchlist	Clear all filters	Enable notifications Cancel	Save watchlist

The following procedure is the same as when registering people watchlists.

### Note:

- There is no limitation to the number of license plates and license plate group (\*depending on the system design).
- Up to 12 LPR watchlists can be registered.
- Only one item can be selected from each category. This is because many items register would affect false positives.
- In Validity Period, two expiration dates can be set.
   Disable matching: After the expiration date, this person's face will not be detected.
   Delete registration: After the expiration date, we will delete the registration itself of this vehicle.
- It is impossible to register to multiple i-PRO Active Guard server at the same time.

### • Edit Registration

To edit a registered watchlist, select one of registered item then change selected item.



### Delete Registration

To delete a registered vehicle appearance, right click one of registered item.

Saved watchlists				
Search b	y i-PRO Active Gu	ard S		
192.168	.0.227			
Suspicious LPR 01				
Suspiciou	ne I PR 02 * Delete			
Suspiciou	Сору			

# 2.7.4.1. Manage License plate group

### Add Registration

### Step 1

In LPR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "(+) Manage license plate."

	w	/atchlists Setup	>
		es   Vehicles	
Saved watchlists		+ Manage license plate	
Search by i-PRO Active Guard S	Watchlist name	Suspicious LPR 03	
192.168.0.227 Suspicious LPR 01	Camera	Cameras (2)	
Suspicious LPR 02	Detect by vehicle ap	pearance only	
Suspicious LPR 03 +	Group *	Select group	
	Trigger	When license plates in the selected group was detected	
		When other license plate which is not in the selected group was detected	
	Validity period		
	Remarks		
+ New watchlist	Clear all filters	Enable notifications     Cancel     Save watchlist	

# Step 2

Click "Manage groups"

	w	atchlists Setup			
			LPR		
					×
▼ Filter watchlists	Registered license pla	tes	Manage groups	+ New license plate	
-PRO Active Guard Server	License plate First name	e Last name Owner photo	Group Country	State Validity period	
192.168.0.227	Delete selection	s			
icense plate ①					
Owner's first name					
unar'r last name					
Group					
Select group 👻					
Country					
Select country					
Validity period					
Clear all Search	* If the number of search r	esults exceed 1 000 the lat	est 1 000 items are shown		ead: 0 / (
	in the Halliber of Search in	cours exceed 1,000, the lat	est 1,000 items are shown.	Registered license pla	te result

# Step 3

Input group name, and "+ Add" button.

М	lanage groups	×
0	+ Add Update Remove	
	Name	
9	group1	
9	group2	

# Step 4

Click Save group button.

Manage groups			×
	+ Add	Update	Remove
Name			
group3 +			
group1			
group2			
		Cancel	Save group

After setting, please close from the top right "X".

### • Edit Registration

### Step 1

Select one of group name from list, then edit group name and click Update button.

### Step 2

Click Save group button.

### Delete Registration

### Step 1

Select one of group name from list, then click Remove button.

### Step 2

Click Save group button.

### Note

If delete or edit a group is fail, make sure the target group is not in your LPR watchlists.



# 2.7.4.2. Manage License plate

# Get registered list

### Step 1

In LPR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage license plate."

	١	Natchlists Setup	×
		ces   Vehicles  PR	
Saved watchlists		+ Manage license pla	e
Search by i-PRO Active Guard S	Watchlist name	Suspicious LPR 03	
192.168.0.227 Suspicious LPR 01		Cameras (2)	
Suspicious LPR 02	Detect by vehicle a	ppearance only	
Suspicious LPR 03 +		Select group	
	Trigger	When license plates in the selected group was detected	
		When other than license plates in the selected group was detected	
	Validity period		
	Kemarks		
L NeuwetchEst	Clear all filters		
T new watchilst		Enable notifications Calicel Save watchilst	

### Step 2

Click "Search" button by using filter.

Watchlists Setup					
People   Faces   Vehicles  PR					
	×				
Registered license plates Manage groups + New license plate	<b>¢</b>				
License plate First name Last name Owner photo Group Country State Validity period					
Pelete selections					
* If the number of search results exceed 1,000, the latest 1,000 items are shown. Read Registered license plate r	: 0 / 0 esults				
	People       Faces       Vehicles       LPR         Registered license plates       Manage groups       • New license plate       •         Unewe plate       Text name       Owner plate 0 Group       County       State       Vehicles       2         Unewe plate       Text name       Owner plate 0 Group       County       State       Vehicles       2         Unewe plate       Text name       Owner plate 0 Group       County       State       Vehicles       2				

Note:

• Up to 1,000 License plates can be shown at the same time.

If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

### Add Registration

### Step 1

In LPR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage license plate."

	w	/atchlists Setup	×
		es   Vehicles	
Saved watchlists		+ Manage license plate	
Search by i-PRO Active Guard S	Watchlist name	Suspicious LPR 03	
192.168.0.227 Suspicious LPR 01	Camera	Cameras (2)	
Suspicious LPR 02	Detect by vehicle ap	pearance only	
Suspicious LPR 03 +		Select group	
	Trigger	When license plates in the selected group was detected	
		When other than license plates in the selected group was detected	
	Validity period		
	Remarks		
+ New watchlist	Clear all filters	Enable notifications     Cancel     Save watchlist	

### Step 2

Click "+ New License plate."





# Step 4

Input information then click Save. "License plate" is required.

Watchlis	ts Setup	×
	Vehicles   LPR	
Owner photo	>	<
	i-PRO Active Guard server 192.168.0.227	
ïç	License plate	
	Owner's first name	
	Owner's last name	
	Group Select group	
Upload from file	Country Select country	
	Validity period	
	Remarks	
		4
	Cancel Save	

### Note:

- In Validity Period, two expiration dates can be set.
- Disable matching: After the expiration date, this person's face will not be detected.
- Delete registration: After the expiration date, we will delete the registration itself of this person.

### Step 1

First, find registered license plate you want to edit the information.

Registered license plate can be searched by using filter.

#### Note:

- Up to 1,000 License plates can be shown at the same time.
- If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

### Step 2

Select one of license plate from search results, then click Z button.

Watchlists Setup						×		
				LPR				×
▼ Filter watchlists	Registered lice	ense plates			Manage groups	+ New li	cense plate	<b>¢</b>
i-PRO Active Guard Server	License plate	First name La	ist name Owner phot	o Group	Country	State	Validity period	-11
192.168.0.227	Delet	e selections						- 1
License plate 🛈	ABC220			group1	United States	Texas		/
Owner's first name								
Owner's last name								
Group Select group								
Country								
Select country								
Validity period								
9/24/2023 8:59:31 PM 🕓 🛱								
Clear all Search	* If the number of s	earch results e	ceed 1,000, the late:	st 1,000 items a	are shown.	Register	Rea ed license plate	d: 2 / 2 results
						Register	ed license plate	results

#### **Step 3** Edit any information then click Save.

# Delete Registration

### Step 1

Select check box of license plate from list, then click Delete selections button.


## 2.7.4.3. Export CSV of License plate

Registered License plate can be exported to CSV.

Export the following items:

- License plate
- Country
- State
- First name
- Last name

#### Step 1

Search "Registered license plate" you want to export by using Filter watchlists.

#### Step 2

Click 🔯 , then click Export CSV.

Watchlists Setup							
People   Faces   Vehicles   <b>LPR</b>   OCR   Container							
▼ Filter watchlists	Registered license plates	Manage groups	+ New license plate				
i-PRO Active Guard Server	License plate First name Last name Owner p	hoto Group Country	State Import 251				
192.168.0.229	Delete selections		Export CSV				
License plate ③	BFP1234 Hiro Kitaoka	VIP United States	9/26/2024 Texas 2:41:00 PM				
Owner's first name			9/26/2024 2:41:00 PM				
Owner's last name Group VP Country Select owner country							
Clear all Search	* If the number of search results exceed 1,000, the late	est 1,000 items are shown.	Read: 2 / 2 Registered license plate results				

#### Note:

- Up to 1,000 items can be exported to a CSV file. If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.
- Export all search results to CSV, regardless of the checkboxes for each item.

#### Step 3

Specify the output destination for the CSV file and save it.

### 2.7.4.4. Import CSV of License plate

Register using Import the CSV file export by this Plug-in or VI LPR plug-in.

For CSV exported by VI LPR plug-in,

License Plate, First Name and Last Name are registered.

For CSV exported by this plugin,

License Plate, Country, State, First Name and Last Name are registered.

### Step 1 Click 🔯 , then click Import CSV.

	Watchlists Setup		×
P	eople   Faces   Vehicles   <b>LPR</b>		
▼ Filter watchlists	Registered license plates	Manage groups + New license plate	
i-PRO Active Guard Server	License plate First name Last name Owner photo Group	Country State Import CSV Export CSV	
License plate ③			
Owner's first name			
Owner's last name			
Group Select group			
Country Select owner country			
□ Validity period           8/31/2024 09:19 AM         ○ 台			
Clear all Search	* If the number of search results exceed 1,000, the latest 1,000 items a	re shown. Read: 0 / 0 Registered license plate results	

#### Step 2

Select the CSV file, then click Open.

- CSV format of i-PRO Active Guard Plug-in is as follows.

License_plate_number	country	issuing_entity	owner_first_name	owner_last_name
Max.32 characters	(ISO 3166 two- letter code (alpha- 2)) *1	(Copy the string from plug-in's setting screen) *1 *2	Max.256 characters	- Max.256 characters

\*1 : If the value is invalid, it will be registered as blank when imported.

\*2 : If the string contains commas, enclose it in double quotes.

#### - CSV format of VI LPR plug-in is as follows.

License Plate	Country /State	Year	Make	Model	Color	First Name	Last Name	Threat Level
Max.32 characters	-	-	-	-	-	Max.32 characters	Max.32 characters	-

\*When VI LPR plug-in, only License Plate, First Name and Last Name are registered for i-PRO Active Guard Server.

#### Example)

License Plate,Country/State,Year,Make,Model,Color,First Name,Last Name,Threat Level BFP8526,USA-TX,2020,Honda,Accord,Blue,Hiro,Kitaoka,None123 ABC1234,,,,,,John,Smith,

#### Note:

• Up to 1,000 items can be imported from a CSV file.

## 2.7.5. OCR Watchlist (new for v2.0.0)

This section describes the operation of add, edit, and delete.

If you don't have a permission to access the watchlist or your camera configuration has no Al-Camera which installed VaxOCR GENESIS application, then this function is not available.

#### Add Registration

To register OCR code to the watchlist, navigate to Set up watchlists button > OCR tab.



Registered items are listed on the left side.

To add new item, click "+ Create a new watchlist" button.

#### (Note)

OCR Code cannot be set directly in the watchlist. Please register the OCR Code to OCR Code group. About OCR Code group, please see 2.5.5.1. About OCR Code, please see 2.5.5.2.

		Watchlists Setup	×
		Vehicles   LPR   <u>OCR</u>   Container	
Saved watchlists		+ Manage OCR Co	
Search by i-PRO Active Guard Se	Watchlist name	Suspicious OCR 03	
192.168.0.229 Suspicious OCR 01		Cameras (1)	
Suspicious OCR 02		Select group	
Suspicious OCR 03 +	Trigger	When OCR Code in the selected group was detected     When other OCR Code which is not in the selected group was detected	
	Validity period		
	Remarks		
+ New watchlist	Clear all filters	Enable notifications Cancel Save watchlist	

The following procedure is the same as when registering people watchlists, see 2.5.2.

#### Note:

- There is no limitation to the number of OCR and group (\*depending on the system design).
   Up to 12 OCR watchlist can be registered.
- Only one item can be selected from each category. This is because many items register would affect false positives.
- In Validity Period, two expiration dates can be set.
   Disable matching: After the expiration date, this OCR watchlist will not be detected.
   Delete registration: After the expiration date, this OCR watchlist will be deleted.
- It is impossible to register to multiple i-PRO Active Guard server at the same time.

#### Edit Registration

To edit a registered watchlist, select one of registered item then change selected item.



#### • Delete Registration

To delete a registered watchlist, right click one of registered item.

Saved watchlists
Search by i-PRO Active Guard Se
192.168.0.229
Suspicious OCR 01
Suspicious OCR 02
Delete
Сору

## 2.7.5.1. Manage OCR Code group

### Add Registration

#### Step 1

In OCR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage OCR Code."

		Watchlists Setup	
		Vehicles   LPR   <b>OCR</b>   Container	
Saved watchlists		+ Manage OCR Code	
Search by i-PRO Active Guard Se	Watchlist name	Suspicious OCR 03	T
192.168.0.229 Suspicious OCR 01		Cameras (1)	
Suspicious OCR 02		Select group	
Suspicious OCR 03 +	Trigger	When OCR Code in the selected group was detected     When other OCR Code which is not in the selected group was detected	
	Validity period		
	Remarks		
+ New watchlist	Clear all filters	Enable notifications     Cancel     Save watchist	

#### Step 2

Click "Manage groups."

	Watchlis	ts Setup		;
		es   LPR   oc	R Container	
▼ Filter watchlists	Registered OCR Code	Mana	age groups + New OCR Code	* \$
i-PRO Active Guard Server	OCR Code	Group	Validity period	-1
OCR Code ①				
Group				
□ Validity period 8/31/2024 07:53 AM 〇 〇 〇				
	* If the number of search results avoor	I 1 000 the latest 1 000 items are shown	Pa	ad-0/0
Clear all Search	n the number of search results exceed	r 1,000, the latest 1,000 items are snown	Registered OCR Code	e results

**Step 3** Input group name, and "+ Add" button.

	Manage groups	×
1		
	+ Add Update Kemove	
	Name	
	group1	
	group2	

Step 4 Click Save group button.

After setting, please close with "X".

Manage groups			×
	+ Add	Update	Remove
Name			
group3 +			
group1			
group2			
		Cancel	Save group

#### • Edit Registration

#### Step 1

Select one of group name from list, then edit group name and click Update button.

#### Step 2

Click Save group button.

#### Delete Registration

#### Step 1

Select one of group name from list, then click Remove button.

#### Step 2

Click Save group button.

#### Note)

If delete or edit a group is fail, make sure the target group is not in your OCR watchlists.



## 2.7.5.2. Manage OCR Code

#### Get registered list

#### Step 1

In OCR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage OCR Code."

		Watchlists Setup	×
		Vehicles   LPR   OCR   Container	
Saved watchlists		Hanage OCR Code	1
Search by i-PRO Active Guard Se		Suspicious OCR 03	
192.168.0.229 Suspicious OCR 01		Cameras (1) 🕨	
Suspicious OCR 02		Select group	
Suspicious OCR 03 +	Trigger	When OCR Code in the selected group was detected     When other OCR Code which is not in the selected group was detected	
+ New watchlist	Clear all filters	Enable notifications     Cancel     Save watchlist	

#### Step 2

Click "Search" button by using filter.



Note:

Up to 1,000 OCR Code can be shown at the same time.
 If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

#### Add Registration

OCR code can be registered via the Action button or the Watchlist Setup screen.

For Action button, see 2.2.1.3.

#### Step 1

In OCR Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage OCR Code."



### Step 2

Click "+ New OCR Code".

	Watch	nlists Setup		×
			OCR Conta	
▼ Filter watchlists	Registered OCR Code		Manage groups +	New OCR Code
i-PRO Active Guard Server		Group	Validity period	_
192.168.0.229				
Group				
Select group				
8/31/2024 07:53 AM ③ 🗎				
Clear all Search	* If the number of search results exc	eed 1,000, the latest 1,000 items a	are shown.	Read: 0 / 0 Registered OCR Code results

### Step 3

Input information then click Save. "OCR Code" is required.

	Watchlists Setup	×
	Faces Vehicles LPR <b>OCR</b> Container	
		×
i-PRO Active Guard server	192.168.0.229	
OCR Code*		
Group	Select group	
Validity period		
Remarks		
	Cancel Save	

Note:

- In Validity Period, two expiration dates can be set.
- Disable matching: After the expiration date, this OCR Code will not be detected.
- Delete registration: After the expiration date, this OCR Code will be deleted.

#### • Edit Registration

#### Step 1

First, find registered OCR Code you want to edit the information.

Registered OCX Code can be searched by using filter.

#### Note:

• Up to 1,000 OCR Code can be shown at the same time. If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

#### Step 2

Select one of license plate from search results, then click Z button.

	w	atchlists Setup		
			OCR Container	
▼ Filter watchlists	Registered OCR Code		Manage groups + New OCR Code	<b>*</b>
i-PRO Active Guard Server	OCR Code	Group	Validity period	-1
OCR Code ③	FF000	group2		
Group Select group				
Uslidity period				
Clear all Search	* If the number of search result	ts exceed 1,000, the latest 1,000 items	are shown. Registered OCR (	Read: 2 / 2 Code results

#### Step 3

Edit any information then click Save.

#### **Delete Registration** •

**Step 1** Select check box of OCR Code from list, then click Delete selections button.

	Wat	chlists Setup		
Per			<b>OCR</b> Container	
▼ Filter watchlists	Registered OCR Code		Manage groups + New OCR Code	<b>*</b>
i-PRO Active Guard Server 192.168.0.229	OCR Code	Group	Validity period	-
OCR Code ①	FF000	group2		/
Group Select group				
Validity period 9/1/2024 07:09 AM O 🛱				
Clear all Search	* If the number of search results e	exceed 1,000, the latest 1,000 item	ns are shown. Registered OCR	Read: 2 / 2 Code results

## 2.7.5.3. Export CSV of OCR code

Registered OCR codes can be exported to CSV.

Export the following items:

- OCR code

#### Step 1

Search "Registered OCR Code" you want to export by using Filter watchlists.

### Step 2

Click 🔯 , then click Export CSV.

	W	atchlists Setup			×
			Contain		
▼ Filter watchlists	Registered OCR Code		Manage groups + N	lew OCR Code	
i-PRO Active Guard Server	OCR Code	Group	Validity period	Import CSV	
192.168.0.229	Delete selections			Export CSV	
OCR Code 🛈	ABC1234		9/26/2024 3:01:00 PM	• •	
Group VIP					
Uslidity period 9/26/2024 0235 PM O					
Clear all Search	* If the number of search result	ts exceed 1,000, the latest 1,000 items a	are shown. R	Read: 2 / 2 egistered OCR Code results	

Note:

- Up to 1,000 items can be exported to a CSV file. If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.
- Export all search results to CSV, regardless of the checkboxes for each item.

#### Step 3

Specify the output destination for the CSV file and save it.

## 2.7.5.4. Import CSV of OCR code

Register OCR code using Import the CSV file export by this plug-in. OCR code of CSV information is registered.

#### Step 1

Click 🔹 , then click Import CSV.

	Wat	tchlists Setup			×
			OCR Contain		
▼ Filter watchlists	Registered OCR Code		Manage groups + N	New OCR Code	
i-PRO Active Guard Server 192.168.0.229	OCR Code	Group	Validity period	Import CSV Export CSV	
OCR Code 🛈	ABC1234		9/26/2024 3:01:00 PM		
Group VIP					
Uslidity period 9/26/2024 02:35 PM					
Clear all Search	* If the number of search results (	exceed 1,000, the latest 1,000 items are	: shown. R	Read: 2 / 2 egistered OCR Code results	

#### Step 2

Select the CSV file, then click Open.

#### Note)

The CSV format that can be imported is as follows.



Note:

• Up to 1,000 items can be imported from a CSV file.

### 2.7.6. Container Watchlist (new for v2.0.0)

This section describes the operation of add, edit, and delete.

If you don't have a permission to access the watchlist or your camera configuration has no AI-Camera which installed VaxOCR CONTAINER application, then this function is not available.

#### Add Registration

To register a container's details or container code to the watchlist, navigate to set up watchlists button > Container tab.



Registered items are listed on the left side.

To add new item, click "+ Create a new watchlist" button.

#### Add Registration (Detect by container details )

Set "Detect by container details" to "On," then select items.



#### • Add Registration (Container Group)

Set "Detect by container details" to "Off," then select container group and Trigger.

Note)

Container code cannot be set directly in the watchlist.

Please register the container code to container group.

About container group, please see 2.5.6.1.

About container code, please see 2.5.6.2.



The following procedure is the same as when registering people watchlists, see 2.5.2.

Note:

- There is no limitation to the number of container code and container group (\*depending on the system design).
  - Up to 12 Container watchlist can be registered.
- Only one item can be selected from each category. This is because many items register would affect false positives.
- In Validity Period, two expiration dates can be set.
   Disable matching: After the expiration date, this container watchlist will not be detected.
   Delete registration: After the expiration date, this container watchlist will be deleted.
- It is impossible to register to multiple i-PRO Active Guard server at the same time.

#### • Edit Registration

To edit a registered watchlist, select one of registered item then change selected item.



#### • Delete Registration

To delete a registered vehicle appearance, right click one of registered item.

Saved watchlists	
Search by i-PR	O Active Guard Se
192.168.0.229	
Suspicious con	tainer 01
Suspicious con	Delete
Suspicious co	Сору

### 2.7.6.1. Manage Container group

#### Add Registration

#### Step 1

In Container Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage container code."



### Step 2

Click "Manage groups."



**Step 3** Input group name, and "+ Add" button.

I	Manage groups		×
	+ Add Update	Remove	
	Name		
	group1		
	group2		

Step 4 Click Save group button.

After setting, please close with "X".

Manage groups			×
	+ Add	Update	Remove
Name			
group3 +			
group1			
group2			
		Cancel	Save group

#### • Edit Registration

#### Step 1

Select one of group name from list, then edit group name and click Update button.

#### Step 2

Click Save group button.

#### Delete Registration

#### Step 1

Select one of group name from list, then click Remove button.

#### Step 2

Click Save group button.

#### Note)

If delete or edit a group is fail, make sure the target group is not in your Container watchlists.



### 2.7.6.2. Manage Container code

#### Get registered list

#### Step 1

In Container Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage container code."

	,	Watchlists Setup	×
			Container
Saved watchlists			+ Manage container code
Search by i-PRO Active Guard Se.	. Watchlist name	Suspicious container 03	
192.168.0.229 Suspicious container 01	Camera	Cameras (1)	
Suspicious container 02 Suspicious container 03 +	Detect by contained	er details	
		Enter size code	
		Select owner country	
		Select owner city	
		Select owner company	
		0	
+ New watchlist	Clear all filters	Enable notifications	Cancel Save watchlist

#### Step 2 Click "Search"



Note:

- Up to 1,000 container code can be shown at the same time.
- If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

#### Add Registration

Container code can be registered via the Action button or the Watchlist Setup screen.

For Action button, see 2.2.1.3.

#### Step 1

In Container Watchlist Setup screen, select server from "Search by i-PRO Active Guard Server." Click "+ Manage container code."



#### Step 2

Click "+ New container code."

		Watchlists Setup					
					Container		
					A November	×	
▼ Filter watchlists	Registered conta	ainer code		lanage groups	+ New Containte		
i-PRO Active Guard Server	Container code	Size code Owner countr	y Owner city	Owner company	Group Validit	y period	
192.168.0.229	🖃 🔹 🖻 Delete s	elections					
Container code ①							
Size code 🛈							
Owner country							
Select owner country							
Owner city							
Select owner city 💌							
Owner company							
Select owner company							
Group							
Select group							
Validity period							
9/1/2024 06:29 AM 🕓 🛱							

#### Step 3

Input information then click Save. "Container code" is required.

	Watchlists Setup	×
	Vehicles   LPR   OCR   <u>Container</u>	
		×
i-PRO Active Guard server	192.168.0.229	
Container code ①		
Size code 🛈		
Owner country	Select owner country	
Owner city	Select owner city	
Owner company	Select owner company	
Group	Select group	
Validity period		
Remarks		
	Cancel Save	

#### Note:

- In Validity Period, two expiration dates can be set.
- Disable matching: After the expiration date, this container code will not be detected.
- Delete registration: After the expiration date, this container code will be deleted.

#### • Edit Registration

#### Step 1

First, find registered container code you want to edit the information.

Registered container code can be searched by using filter.

#### Note:

• Up to 1,000 container code can be shown at the same time.

If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.

#### Step 2

Select one of license plate from search results, then click Zelbutton.



#### Step 3

Edit any information then click Save.

#### **Delete Registration** ullet

**Step 1** Select check box of license plate from list, then click Delete selections button.

		Watch	nlists Setup					;
						Contain	er	
▼ Filter watchlists	Registered conta	iner code			Manage groups	+ New o	ontainter code	* \$
i-PRO Active Guard Server	Container code	Size code	Owner country	Owner city	Owner company	Group	Validity period	
192.168.0.229	🖃 🔹 🕅 Delete si	elections						
Container code ①	ABC123		United States	Denver			9/1/2024 7:38:00 AM	
Size code 🛈								
Owner country								
Select owner country 💌								
Owner city								
Select owner city 💌								
Owner company								
Select owner company 👻								
Group								
Select group								
Validity period								
9/1/2024 06:29 AM 🔇 🛱								
Clear all Search	* If the number of sear	ch results exc	eed 1,000, the lat	test 1,000 items a	re shown.	Regist	Re ered container cod	ad: 2 / 2 le results

### 2.7.6.3. Export CSV of Container code

Registered container code can be exported to CSV.

Export the following items:

- Container code
- Size code
- Owner country
- Owner company

#### Step 1

Search "Registered container code" you want to export by using Filter watchlists.

#### Step 2 Click 🔯 , then click Export CSV. Watchlists Setup People Faces Vehicles LPR OCR Container ¢ ▼ Filter watchlists Registered container code Import CSV er code Size i-PRO Active Guard Serv Export CSV 9/26/2024 3:59: PM AA11 tx 77064 Size code 🛈 \_ Select owner country Select owner city. npany Select owner company... --Select group... Read: 2 / 2 red container code results Clear all

Note:

- Up to 1,000 items can be exported to a CSV file. If your search results exceed 1000 results, please set the search filter so that the search results are less than 1000 results.
- Export all search results to CSV, regardless of the checkboxes for each item.

#### Step 3

Specify the output destination for the CSV file and save it.

## 2.7.6.4. Import CSV of Container code

Register Container code using Import the CSV file export by this plug-in.

Container code, Size code, Owner country and Owner company of CSV information are registered.

#### Step 1

Click 🔯 , then click Import CSV.					
	Watchlists Setup				
			Container		
▼ Filter watchlists	Registered container code	Manage groups	+ New containter code		
i-PRO Active Guard Server	Container code Size code Owner country Owner	city Owner company	Group Import CSV		
192.168.0.229	Delete selections		Export CSV		
Container code 🛈					
Size code 🛈					
Owner country					
Select owner country 🔻					
Owner city					
Select owner city					
Select owner company					
Group					
Select group					
Validity period					
9/1/2024 06:29 AM O 🛱					
Clear all Search	* If the number of search results exceed 1,000, the latest 1,000 i	items are shown.	Read: 0 / 0 Registered container code results		

#### Step 2

Select the CSV file, then click Open.

#### Note)

The CSV format that can be imported is as follows.

container_code	size_code	country	owner_city	owner_company
Max.11 characters	Max.4 characters	(ISO 3166 two-letter code (alpha-2)) *1	(Copy the string from plug-in's setting screen) *1 *2	(Copy the string from plug-in's setting screen) *1 *2

\*1 : If the value is invalid, it will be registered as blank when imported.

\*2 : If the string contains commas, enclose it in double quotes.

#### Note:

• Up to 1,000 items can be imported from a CSV file.

## 2.7.7. Watchlist Matching

This section describes how alerts are generated within XProtect for watchlists.



- Matching set to on enables the matching process.
- Alarm threshold can be set between Low and High
- (This can be set for each individual face or person watchlist profile. Please adjust according to your environment)
- When Validity Period is selected, two expiration dates can be set. Disable matching: After the expiration date, this person's face will not be detected.

Delete registration: After the expiration date, we will delete the registration itself of this person.

Within the XProtect Management Client generate a new Rule or Alarm definition with one of the below triggers.



#### Note:

- This system requires the XProtect API Gateway to trigger this event. Older versions of XProtect do not support the API so this function may not work for all systems.
- Currently this is a generic event that will only trigger an event within XProtect to confirm a hit on the watchlist. The event will need to be manually verified within the i-PRO Active Guard XProtect plugin.

## 2.8. PLUGIN CONFIGURATION

Settings in XProtect Smart Client – [i-PRO Active Guard Settings Panel]

Settings		- • ×		
Application		Guard Sattings		
Panes	I-FRO Active (			
Functions	Playback			
Timeline	Playback mode	Continue to playback for the selected camera 💌		
Export	Start playback	5 seconds before the event		
Smart map	End playback	5 seconds after the event		
	License Plate Rec	License Plate Recognition		
Search	Thumbnail content	Vehicle body		
Joystick		License plate		
Keyboard	OCR Code Recog	OCR Code Recognition		
Access control	Filter name	OCR		
Alarm Manager	Code name	OCR code		
i-PRO Active Guard	Thumbnail content	Thumbnail content <ul> <li>Entire image</li> </ul>		
Advanced		Code		
1	Container Code R	Container Code Recognition		
Language	Thumbnail content	Entire image		
		O Container code		
Help		Close		

[Playback]

Playback mode - [Continue to playback for the selected camera], [Repeat playback for the selected camera]

Start playback - seconds after event (5s default)

End playback - seconds after event (5s default)

#### [License Plate Recognition]

Thumbnail content - You can set whether to show the entire vehicle including the license plate or only the license plate in the search results.

[OCR Code Recognition] (new for v2.0.0)

Filter name - You can change the display name of OCR filter.

Code name - You can change the display name of OCR Code.

Thumbnail content - You can set whether to show the entire including the OCR Code or only the OCR Code in the search results.

[Container Code Recognition] (new for v2.0.0)

Thumbnail content - You can set whether to show the entire including the Container Code or only the Container Code in the search results.

# 3. DOWNLOAD LINKS

Please update other related software to the latest version.

i-PRO Active Guard Plug-in v2.0.0 (DIRECT DOWNLOAD) i-PRO Active Guard Plug-in for XProtect (orbnetsys.com)

<u>i-PRO Active Guard Plug-in v2.0.0 (Milestone Technology Partner Finder)</u> <u>i-PRO Active Guard Plug-in for XProtect (milestonesys.com)</u>

i-PRO Active Guard server software and related software

https://i-pro.com/products\_and\_solutions/en/surveillance/learning-and-support/knowledge-base/producttips/active-guard-links

## **3.1. CHANGE LOG**

https://github.com/ORBNETSYS/i-PRO-Active-Guard-Public

# 4. TROUBLESHOOTING

Before requesting additional support, please check for symptoms in the following table.

Contact your dealer first if a problem cannot be solved, after checking and trying the solution in the table or if the problem is not described below.

Symptom	Cause/solution
Face, People or Vehicle images cannot be searched (The number of search results is 0).	<ul> <li>Check if a schedule is applied in the setting of the camera and that the extension software is enabled.</li> <li>Receiving status from each camera can be confirmed from the i-PRO Active Guard configuration (see camera Setup instruction manual).</li> <li>Lower accuracy threshold</li> </ul>
False detection (Non-face, people or vehicle object is shown in searched items)	<ul> <li>To avoid false detection, configure the mask area using iCT (i-PRO Configuration Tool).</li> </ul>
Playback time is incorrect	<ul> <li>Check if the PC time of the i-PRO Active Guard server and VMS server are synchronized.</li> <li>The i-PRO Active Guard server may be installed on a dedicated server. Check that the time zone setting of the VMS server and VMS client software is the same.</li> </ul>
Plug-in does not work after upgrading	<ul> <li>If XProtect Event Server service is stopped after updating, start manually from Windows Task bar.</li> <li>Please try to uninstall and install again.</li> </ul>