

# Hanwha Vision Plug-in User Manual

For Milestone



## About This User Manual

This manual describes how to register a Hanwha Vision's product, how to install the Hanwha Vision Plug-in, and how to use them in Milestone XProtect. Please read this manual carefully before using the product for proper use.

- This document explains how to use the product based on its defaults and default screens.
- The content in this document is subject to change depending on the product software updates and company policies and to partial changes without prior notification to users.

### **Target Audience**

This manual contains information for the operator using the products of **Hanwha Vision** and the **Milestone XProtect** program of **Milestone**.

• Please refer to the official **Milestone** website (<u>www.milestonesys.com</u>) for more information on how to install and set up the **Milestone XProtect** program.

### Product Usage

Users of this product can perform the following functions:

- Search for object (person/face/vehicle/license plate/Wisenet Road Al/user defined/Al pack/ barcode) detection events analyzed via Al cameras and its video playback
- Control for various camera functions
- Linking various events from IP audio devices and Milestone XProtect
- Intercom device control and event management

The Hanwha Vision Plug-in is based on the Hanwha Vision's products and the Milestone XProtect program of Milestone. Please refer to the following sites for details.

- Hanwha Vision: www.HanwhaVision.com
- Milestone: <u>www.milestonesys.com</u>

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# Learn about the Hanwha Vision Plug-in

### What is the Hanwha Vision Plug-in?

The Hanwha Vision Plug-in provides the following functions:

Search for object detection events of AI cameras and playback of videos

The plug-in uses the detailed object conditions to search for object (person/face/vehicle/license plate/Wisenet Road Al/user defined/Al pack/barcode) detection events analyzed by Al cameras in the **Milestone XProtect** program and plays back the desired video.

- Control for various camera functions Various functions supported by the camera can be used in Milestone XProtect.
- Linking various events from IP audio devices and Milestone XProtect By linking events from IP audio devices of Hanwha Vision and Milestone XProtect, the set audio source can be played when an event occurs.
- Intercom device control and event management You can answer any call request from an intercom device and view the call history.

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Note

The Hanwha Vision Plug-in was developed using the Milestone MIP SDK.

### Learn about the Hanwha Vision Plug-in System Configuration

The Hanwha Vision Plug-in consists of the following:



- Al Camera: A camera that supports Al analytics.
- XProtect Recording Server: Videos and data for the Milestone XProtect program are saved and managed.
- Server Plug-in: A plug-in that sends events analyzed by the AI camera to the Milestone Event Server.
- Milestone Event Server: Events of the Milestone XProtect program are managed.
- Client Plug-in: A plug-in that adds an AI event search menu to the XProtect Smart Client program.
- **Operator**: A PC that operates the Milestone XProtect program.

## System Requirements

The following are the system requirements for running the Hanwha Vision Plug-in:

XProtect

OS	XProtect Version	XProtect License
Windows 10 64 bit Windows 11 64 bit	2022 R3 or higher	Expert, Corporate, Express+, Professional+

• .Net Framework 4.8 or later

### **Supported Devices**

The following are the products that support the Hanwha Vision Plug-in:



#### Note

- The devices marked with an asterisk (\*) offer additional support for search.
- The supported AI attributes and detailed functions vary depending on the camera model. Please refer to your camera's specifications for more information.



AIB-800\*

### Intercom

TID-600R

### IP audio

SPA-C100B, SPA-C100W, SPA-C110B, SPA-C110W, SPA-H100B, SPA-H100W, SPA-P100B, SPA-P100W, SPA-W100B, SPA-W100W, SPA-S1000, SPA-S2000

### Audio beacon

SPS-A100M\*

### Network camera

#### • P series

PNB-A6001\*, PNB-A9001\*, PNB-A9001LP\*, PND-A6081RF\*, PND-A6081RV\*, PND-A9081RF\*, PND-A9081RV\*, PND-A9081RVG\*, PNM-C12083RVD\*, PNM-C16013RVQ\*, PNM-C16083RQZ\*, PNM-C16083RVQ\*, PNM-C32083RQZ\*, PNM-C32083RVQ\*, PNM-C34404RQPZ\*, PNM-C7083RVD\*, PNM-C9022RV\*, PNO-A6081R\*, PNO-A9081R\*, PNO-A9081RG\*, PNO-A9081RLP\*, PNO-A9311RL\*, PNO-A9311RLP\*, PNV-A6081R\*, PNV-A9081R\*, PNV-A9081RLP\*

#### • X series

XNP-6400, XNP-6400R, XNP-6400RW, XNP-8250, XNP-8250R, XNP-8300RW, XNP-9250, XNP-9250R, XNP-9300RW, XNB-6003\*, XNB-8003\*, XNB-9003\*, XND-6083RV\*, XND-8083RV\*, XND-8093RV\*, XND-9083RV\*, XND-A8084RV\*, XND-A9084RV\*, XND-C6083RV\*, XND-C7083RV\*, XND-C8083RV\*, XND-C9083RV\*, XND-A9084RV\*, XNO-6083R\*, XNO-6123R\*, XNO-8083R\*, XNO-9083R\*, XNO-A8084R\*, XNO-A9084R\*, XNO-6083R\*, XNO-6123R\*, XNO-8083R\*, XNO-9083R\*, XNO-A8084R\*, XNO-A9084R\*, XNO-C6083R\*, XNO-C7083R\*, XNO-C8083R\*, XNO-C9083R\*, XNO-C9083R\*, XNP-C6403\*, XNP-C6403R\*, XNP-C6403RW\*, XNP-C8253\*, XNP-C8253R\*, XNP-C8303RW\*, XNP-C9253\*, XNP-C9253R\*, XNP-C9303RW\*, XNV-6083R\*, XNV-6083RZ\*, XNV-6083RZ\*, XNV-6083RZ\*, XNV-9083R\*, XNV-9083RZ\*, XNV-6123R\*, XNV-8083R\*, XNV-8083RZ\*, XNV-8083RZ\*, XNV-8093R\*, XNV-2083R\*, XNV-9083RZ\*, XNV-A8084R\*, XNV-C9083R\*, XNV-C9083R

#### • Q series

QNP-6250, QNP-6250H, QNP-6250R, QNP-6320, QNP-6320H, QNP-6320R, QNO-C8083R\*, QNO-C9083R\*, QNV-C8011R\*, QNV-C8012\*, QNV-C8083R\*, QNV-C9011R\*, QNV-C9083R\*, QNO-6082RLP\*, QNV-6082RLP\*

#### • T series

TNO-4030TR, TNO-4040TR, TNO-4050T, TNO-L4030TR, TNO-L4040T, TNO-L4040TR, TNO-L4050T, TNB-9000\*, TNM-C3620TDR\*, TNM-C3622TDR\*, TNM-C4940TD\*, TNM-C4940TDR\*, TNM-C4942TDR\*, TNM-C4950TD\*, TNM-C4960TD\*, TNO-7180RLP\*, TNO-C3010TRA\*, TNO-C3012TRA\*, TNO-C3020TRA\*, TNO-C3022TRA\*, TNO-C3030TRA\*, TNO-C3032TRA\*, TNS-9040IBC\*, TNS-9050IBC\*, TNS-9060IBC\*, TNV-C7013RC\*

# Setting up Camera

Enable AI analytics for the AI camera to run the Hanwha Vision Plug-in.

In order to use the AI analytics function, BestShot or DetectionShot must be enabled.



Note

The setting method for object detection may differ depending on the camera model. Please refer to the camera's User Manual for more information.

## Setting up in the 'Open platform' Menu

- 1. Launch the web browser.
- 2. Enter the IP address of the AI camera. (e.g. http://192.168.9.107)
- 3. Enter ID and Password to log in to the camera web viewer.
- 4. Select 💠 Setup and click Open platform on the left menu.
- 5. Click Open platform and then click Go App.

WISENET							۰.			
ill Basic	<	Open pl	atfo	rm						
😇 Video & Audio	<									
A Network	<			Install						Version : 4.02_220316
Event	<ul> <li>C</li> </ul>									Application manager
Analytics	· ·	No.	0	Application name	0		Status	0	Setup	0
System	~			WiseAl						
Open platform		1		Installed date : 2022-03-29 T 17:28:30		Running				
Open platform				Version : 1.0 Uninstall Go App		Health				
		Total: 1								

6. Check if the application is running on the **Open platform**.

W'ISENET			📃 🖳 📫	*			
I≣ Basic .⊕ PTZ	د د	Open pl	atform				Version : 3.60 210106
圭 Video & Audio 計 Network	<						Application manager
🜲 Event	<	No. 🗘	Application name	÷	Status	¢	Setup $\widehat{\lor}$
Analytics	< <		WisenetRoadAl			Priority  Low	O Medium
System     Open platform	< ~	1	Installed date : 2021-05-07 T 07:07:12 Version : 7.2.0.6 Uninstall Go App	L	Running Stop Health	Auto start	
Open platform						Apply	



Note

Please refer to the device's User Manual for more information on the application settings and operation.

7. Click BestShot on the WiseAI app screen.

VISENET		Analytics Statistics Setup	
	Exclude area		
		IVA (Intelligent Video Analytics) →	$ \begin{array}{c} & \text{Line crossing} \\ \hline \\ \hline \\ \\ \hline \\ \end{array} \end{array} $
	BestShot →	Traffic jam detection →	$\textcircled{B} \xrightarrow{\text{Stopped vehicle detection}} \underbrace{}_{}$

8. Select **On** by clicking the button that enables the function at the top of the screen. On the **BestShot** tab, click the object type you want to detect.



9. Click Camera web viewer > Setup > Basic > Date & Time. Select the Time zone identical with the Milestone XProtect Server and click Apply. Check Synchronize with PC viewer and click Apply.

WISENET				Þ 💠	
i Basic	~	Date & Time			
Video profile User Date & Time		Current system time	Date & Time		2021-03-08 10:47:03
IP & Port		Time zone	Time zone		(GMT+09:00) Seoul 🗸
- <u>+</u> . PTZ	<			Apply	Cancel
至 Video & Audio	د د	Sustan time estur			
🌲 Event	<	system une setup	Manual Y - M - D 202	1 - 03 - 08	h:m:s 10 : 40 : 22
Analytics	<		Synchronize v	with PC viewer	
al Statistics	¢		2021-03-08 1	0:46:19	
<ul> <li>System</li> </ul>	<		<ul> <li>Synchronize with</li> </ul>	th NTP server	
Open platform	<		Address 1		pool.ntp.org
			Address 2		asia.pool.ntp.org
			Address 3		europe.pool.ntp.org
			Address 4		north-america.pool.ntp.org
			Address 5		time.nist.gov
				Apply	Cancel

10. Check the BestShot list on the right to see if AI-analyzed events are detected.



## Setting up in the 'Analytics' Menu

- 1. Launch the web browser.
- 2. Enter the IP address of the AI camera. (e.g. http://192.168.9.107)
- 3. Enter ID and Password to log in to the camera web viewer.
- 4. Select 🛟 Setup and click Analytics on the left menu.
- Click Object detection and check Enable object detection box. On the BestShot or DetectionShot tab, check the Enable box for the object type you want to detect. Click Apply.





#### Note

In order to use AI analytics, you must check the **Enable object detection** and **Enable** boxes for the **BestShot** or **DetectionShot** type you want to detect.

Click Camera web viewer > Setup > Basic > Date & Time.
 Select the Time zone identical with the Milestone XProtect Server and click Apply.
 Check Synchronize with PC viewer and click Apply.

W'ISENET			ļ D	3 ¢	
I Basic Video profile	v	Date & Time			
User Date & Time		Current system time	Date & Time	2021-03-08 10:47:03	
IP & Port		Time zone	Time zone	(GMT+09:00) Seoul	-
.ţ. PTZ	<			Apply Cancel	
🚋 Video & Audio	¢				
# Network	٢	System time setup	Manual		
🌲 Event	<		Y - M - D 2021	- 03 - 08 h:m:s 10 : 40 : 22	
Analytics	¢		Synchronize with	th PC viewer	
<u>al</u> Statistics	¢		2021-03-08 10:40	46:19	
<ul> <li>System</li> </ul>	<		O Synchronize with N	NTP server	
Open platform	<		Address 1	paol.ntp.org	
			Address 2	asia.pool.ntp.org	
			Address 3	europe.pool.ntp.org	
			Address 4	north-america.pool.ntp.org	
			Address 5	time.nist.gov	
				Apply Cancel	

7. To see if Al-analyzed events are detected, select 💻 Live and check the BestShot list on the left.





#### Note

When the camera supports DetectionShot, press the [**Ctrl+Alt+S**] key to check the image of DetectionShot on the live page for the camera web viewer.

# **Registering Camera**

You must register your AI camera to the XProtect Management Client program to use the Hanwha Vision Plug-in.



#### Note

- To play event videos, recording settings must be set for the camera. For more details on recording settings, refer to the user's guide for the Milestone XProtect.
- IPv6 cameras do not support search for AI analytics events.

### **Registering the Camera Automatically**

You can automatically search and register your AI camera in the **XProtect Management Client** program.

- 1. Launch the XProtect Management Client program.
- 2. Select Servers > Recording Servers.

Select Add Hardware from the context menu of the server.



3. Select Express (recommended) or Address range scanning, and click Next.

Add Hardware				×
	Add Hardware			
	This wizard helps you detect and set up hardware,			
	Hardware detection method:			
	<ul> <li>Express (mcommended) Automatically detects hardware on the recording server's local network</li> </ul>			
	Address range scanning     Scans defined network address ranges and detects hardware models			
	Manual     Detects hardware models for manually entered IP addresses and host names			
milestone	Remote connect hardware     Add hardware connected via a remote connect server			
Help	< Back Next >	Can	el	

4. Enter a user name and password, and click Next.

Add Hard	dware					_		×
Opti	onally, specify additio	nal user credentials to connect with if the	hardware is not using th	e factory defaults.		mile	stone	
Include	User name		Password			A	dd	
	(Factory default)		•••••					
	admin					Ren	10 V B	
	admin							
	admin					1		
	Help			< Back	Next >	Car	icel	

5. Check if the camera has been properly registered, and click Next.

Add Hardware					×
Wait while the system connects to each hardware and collects device specif Successfully collected hardware will be added.	ic information.			mileston	e
				Stop	
Collected hardware information:					
Address	Port	Hardware model		Status	
192.168.117.29	80	Hanwha Vision PND-A9081RV		<ul> <li>Success</li> </ul>	
Help		< Back	Next >	Cancel	

6. Select a group which a device or a device group will belong to. Click **Finish** to complete the camera registration.

Add Hardware			— D X
Select a default group for all devices types. Alternatively, select device group individually for each device			milestone
Default camera group:	Devices	Add to Group	
카메라 그룹 1 🛛 🗧	Cameras		
Default microphone group: No group selected	Hanwha Vision PND-A9081RV (192.168.117.29) - Camera 1	Default Group	~
Default speaker group:			
No group selected			
Default metadata group: No group selected			
Default input group:			
No group selected			
Default output group: No group selected			
Help	< Back	Finish	Cancel

### **Registering Camera Manually**

You can manually enter and register your AI camera's IP address in the **XProtect Management Client** program.

- 1. Execute the XProtect Management Client program.
- 2. Select Servers > Recording Servers.

Select Add Hardware from the context menu of the server.



3. Select Manual, and click Next.

Add Hardware	-		×
	Add Hardware		
	This wizard helps you detect and set up hardware,		
	Hardware detection method:		
	<ul> <li>Excess (recommended) Automatically detects hardware on the recording server's local network</li> </ul>		
	Address range scanning     Scans defined network address ranges and detects hardware models		
	<ul> <li>Manual Detects hardware models for manually entered IP addresses and host names</li> </ul>		
milestone	Remote connect hardwae     Add hardware connected wa a remote connect server		
Help	< Back Next > Cance	I	

4. Check Hanwha and click Next.

Add Hardware					×
Select which drivers to use when scanning for hardware. The more drivers selected, the slower the scanning.			miles	tone	
Arecont     AAIS			Select	All	
e Bosch e Canon			Clear	All	
Help	< Back	Next >	Cance	9	

Enter the IP address of the AI camera.
 Select Auto-detect for Hardware model, and click Next.

A	dd Ha	rdware						- U X
	En Op	ter the network address and port of the hardware you wa tionally, select the hardware model to speed up detection	nt to add.					milestone
I٢		Address	Port	Use HTTPS	HTTPS port	Hardware model		Add
	/	192.168.117.29	80		443	(Auto-detect)	~	Remove
		Help				< Back	Next >	Cancel

6. Check the detection status of the hardware model, and click Next.

Add	d Hardware				- 🗆 X
	Wait while your hardware is being detected. Once detection has completed, select which hardware to ad	ld.			milestone
					Stop
Det	tected hardware:				
A	Add Address	Port	Hardware model		Status
	9 192.168.117.29	80	Hanwha Vision PND-A9081RV		✓ Success
	Show hardware running on other recording servers				
C	Help		< Back	Next >	Cancel

7. Check if the camera has been properly registered, and click Next.

Add Hardware			- 0 X
Wait while the system connects to each hardware and collects device speci Successfully collected hardware will be added.	fic information.		milestone
			Stop
Collected hardware information:			
Address	Port	Hardware model	Status
192.168.117.29	80	Hanwha Vision PND-A9081RV	Success
Help		< Back Next >	Cancel

8. Select a group which a device or a device group will belong to. Click **Finish** to complete the camera registration.

dd Hardware		- 0
Select a default group for all devices types. Alternatively, select device group individually for each de	ice.	milestone
Default camera group:	Devices	Add to Group
카메라그룹 1 📔	Cameras	
Default microphone group:	Hanwha Vision PND-A9081RV (192.168.117.29) - Camera 1	Default Group
No group selected		
Default speaker group:		
No group selected		
Default metadata group:		
No group selected		
Default input group:		
No group selected		
Default output group:		
No group selected		
11-12	L Book	Balah Canad

# Installing the Hanwha Vision Plug-in

## Installing Server Plug-in

The **Server Plug-in** needs to be installed on the **Milestone Event Server**. In order for the **Server Plugin** to receive AI metadata, the Event Server computer will need to be able to communicate directly with the cameras.

 Execute the Server Plug-in installation file as administrator. When the installation wizard appears, click Next.



#### 2. Click Install.

The Milestone Event Server service is stopped.



3. After installation, the Milestone Event Server service is automatically started again. Click Finish to end.

### Updating Server Plug-in

 Execute the Server Plug-in installation file as administrator. To start updating, click Next.



#### 2. Click Install.

The Milestone Event Server service is stopped.

💽 HanwhaVisionPluginServer - InstallShie	ld Wizard		×		
Ready to Install the Program			4		
The wizard is ready to begin installation.			C		
Click Install to begin the installation.					
When you click Install, MilestoneEve take some time.	ntServer will autom	atically restart.	This may		
If you want to review or change any of yo the wizard.	ur installation settings,	, click Back. Click C	ancel to exit		
InstallShield					
	< Back	Install	Cancel		

3. After update, the Milestone Event Server service is automatically started again. Click Finish to end.

### **Removing Server Plug-in**

Click **III** Start > 🔯 Setup > Apps > Apps & Features or Installed apps > HanwhaVisionPluginServer > … > Uninstall.

Then, Server Plug-in will be uninstalled.



### Checking Server Plug-in Version

You can check the version information in **III** Start > 🔅 Setup > Apps > Apps & Features or Installed apps > HanwhaVisionPluginServer.

← Settings - □						×
•	Local Account	App 👻	s > Installed apps			
Find a	a setting Q	18	HanwhaVisionPluginClient 1.07.00   Manwha Vision   2025-06-28	427 MB		
	System	19	HanwhaVisionPluginServer 1.07.00   Harwha Vision   2025-06-28	211 MB		
8	Bluetooth & devices Network & internet	-	HID OMNIKEY 5127/5427 CK EEM Driver 1.0.1.0   HID Global Corporation   2024-07-15	1.71 MB		
	Personalization	-	HID OMNIKEY 5127/5427 CK PC/SC Driver 1.0.1.0   HID Global Corporation   2024-07-15	120 KB		
•	Accounts	4	HP Dropbox Plugin 44.5.501.81934   HP   2021-03-04	3.47 MB		

## Installing Client Plug-in

The **Client Plug-in** is installed on any PC where the **XProtect Smart Client** program, and the **XProtect Management Client** is installed, and the plugin will be used.

 Execute the Client Plug-in installation file as administrator. When the installation wizard appears, click Next.



#### 2. Click Install.

The active XProtect Smart Client and XProtect Management Client programs ends automatically.



3. After installation, click Finish to end.

### Updating Client Plug-in

 Execute the Client Plug-in installation file. To start updating, click Next.



#### 2. Click Install.

The active **XProtect Smart Client** and **XProtect Management Client** programs ends automatically.

r						
HanwhaVisionPluginClient - InstallShie	ld Wizard		$\times$			
Ready to Install the Program			-44			
The wizard is ready to begin installation.			C			
Click Install to begin the installation.						
When you click Install, Xprotect Sma close. This may take some time.	When you click Install, Xprotect Smart Client and Xprotect Management Client will close. This may take some time.					
If you want to review or change any of yo the wizard.	our installation settings, di	ck Back. Click (	Cancel to exit			
InstallShield						
	< Back	Install	Cancel			

3. After update, click Finish to end.

### Uninstalling Client Plug-in

- 1. Close the XProtect Smart Client program.
- 2. Click Start > 💮 Setup > Apps > Apps & Features or Installed apps > HanwhaVisionPluginClient > … > Uninstall.

Then, Client Plug-in will be uninstalled.



### **Checking Client Plug-in Version**

You can check the version information in **III** Start > 💮 Setup > Apps > Apps & Features or Installed apps > HanwhaVisionPluginClient.



# Changing the Camera Settings

You can change the Hanwha Vision camera settings in the **XProtect Management Client** program without accessing a separate browser.

- 1. Launch the XProtect Management Client program.
- 2. Select Hanwha Vision Plug-in > Cameras.

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Misestone Aprotect Waragement Clent 2022				0	^
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Eite Navigation 🗸 🖛 🗙	Configuration				+ +
Ecense Information	Cameras				
Sile Illormation	cumerus				
Big Hernota Connect Services	- 0				-
- Sources	B-0 schloskag				
Strender Corner	Hannaha Techwin PND-A6001RF (192.160.201.25)				
Enliver Seters	Character Technic Technic Contents and an and an				
Mobile Servers	- Las Parnina (ROWIT (1907940501D (192.166.123.20)				
Devices	<ul> <li>— Harwha Techwin PNV-A9081RLP (192.168.201.30)</li> </ul>				
The Cameras	Harmba Tarbain TID-6008 (192 165 217 61)				
- P Microphenes					
- 🥐 Speakers					
🐨 Netadata					
de hout					
- V CODER		No device connected			
Sand Holl		No device connected			
21 View Groups					
Smart Client Profiles					
Management Client Profiles					
📮 Matix					
Des Bules and Events					
- 👸 Bales					
Time Profiles					
Notecation Promas					
Analytics Counts					
Benatic Faerts					
e di Secutiv					
R Bales					
Basic Users					
System Dashboard					
- Current Tasks					
<ul> <li>System Monitor</li> </ul>					
System Monitor Thresholds					
Continuation Becosts					
- Server Laps					
🗆 🐨 Metadata Use					
Metadata Search					
- M Access Centrol					
⊖ 🕄 Transact					
Transaction sources					
Interstation definitions					
C Correct Pig-D					
P Autios					
IR Alarma					
< >					
Site Navigation Federated Site Hierarchy					
			_	_	

3. Select a camera to change the settings for.

You can change the settings of the camera on the right screen.

Subjectione Aprotect Waragement Client 2022	(I									0 .
Ste Navisation + + X	Configuration									
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Remote Connect Services										
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# Setting up Al Event Repository

You can change the location for storing AI analytics events. Additionally, you can enable the automatic cleanup feature of the database to set the retention time.

- 1. Launch the XProtect Management Client program.
- 2. Select Hanwha Vision Plug-in > Cameras.
- 3. Select the top node in the tree. The AI database settings screen is displayed.

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#### • Destination

You can change the database storage location. However, the database must be located on the PC where **XProtect Event Server** is installed.

- The default database recording path is C:\ProgramData\HanwhaVisionPlugin.
- To change the location, click the \_\_\_\_ button to select a desired location. When the location is changed, the saved file is moved to the changed location. Settings cannot be changed while moving, and it may take some time.

#### • Maximum size

You can set the maximum storage capacity for a database folder.

- The default is 500 GB, and the maximum value is 1 EB.
- If the storage capacity exceeds the set capacity or the user PC's maximum capacity, data will be deleted in chronological order.

#### • Regular cleanup

You can set the database retention period.

- To set the retention period, check **Regular cleanup** and then set the period.
   The data recorded after the set period will be automatically deleted. Database management files, sound source event files, and blank folders will also be deleted.
- The default of automatic cleanup period is 30 days, and you can set the period up to 9999 days.
- You can set the **Clean each** period by selecting **Day**, **Weekday**, **Weekend day** or **Custom**. To set a desired day, select **Custom** and click on the desired day.

#### Clean now

You can immediately delete the data which are past the set period.

Example) Clicking **Clean now** on the database retention period set to 30 days will delete all data which are past 30 days from the current date.



#### Note

If you create and use multiple **Hanwha Vision Plug-in**s, the same database storage may result in duplicate results after an event search.

# Setting up IP Audios

**The Hanwha Vision Plug-in** can add an IP audio and register devices and sound sources to broadcast. When an event occurs, it can be broadcast using the added IP audio.



Note

If the operating mode is changed in the web viewer, speakers may not function properly with the current plugin settings. To resolve this, delete the device from the plugin and re-register it.

## Adding an IP Audio

- 1. Launch the XProtect Management Client program.
- 2. Select Hanwha Vision Plug-in > IP Audios.

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3. Select IP Audios, then right-click it and select Add New Items.

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• You can delete an unused IP audio by selecting it from the list.



4. Enter the name, IP address, user name, and password of the IP audio you want to add, then click OK.

Add IP Audio		×
Add Device		
IP Audio Name	IP Audio 1	
IP address	192 . 168 . 201 . 90	
User name	admin	
Password	*****	
	OK. Cancel	

5. If the selected device is in **Controller** mode or is an audio server, click the **Add** button to add a preset. Select a source and target of the IP audio you want to add.

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- The presets are predefined actions that respond to device events and can be applied when creating rules.
- If you click **Reload Device Properties**, the settings information of the device is updated with the latest information.

## **Setting Rules**

- 1. Launch the XProtect Management Client program.
- 2. Select Rules and Events > Rules.

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3. Select Rules, then right-click it and select Add Rules.

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#### 4. Enter the name of the rule to add.

Check Play through Hanwha Vision IP Audios under Select action to perform item.

Manage Rule				-		×		
Name:	IP Audio Rule 1							
Description:								
Active:								
		Step 3: Actions						
Start plug-in on <de Stop plug-in on <de Apply new settings Set Matrix to view            Send SNMP trap Retrieve and store n Retrieve and store n Save attached imag Activate archiving o On <site> trigger            Play through Hanwer</site></de </de 	Start plug-in on <devices>         Stop plug-in on <devices>         Apply new settings on <devices>         Set Matrix to view <devices>         Set Matrix to view <devices>         Retrieve and store remote recordings from <devices>         Retrieve and store remote recordings between <start and="" end="" time=""> from <devices>         Save attached images         Activate archiving on <archives>         On <site> trigger <user-defined event="">         Play through Harwha Vision IP Audios</user-defined></site></archives></devices></start></devices></devices></devices></devices></devices></devices>							
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Help	Cancel	< Back	Next >	F	Finish			

#### 5. Click User defined Preset.

Manage Rule				-		×
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Stop plug-in on <de< td="">       Stop plug-in on <de< td="">       Apply new settings       Set Matrix to view        Send SNMP trap       Retrieve and store ra       Retrieve and store ra       Activate archiving or       On <site> trigger <u td="">       Play through Hanwh</u></site></de<></de<>	vices> on <devices> devices&gt; imote recordings from <devices> mote recordings between <start an<br="">as <archives> ser-defined event&gt; a Vision IP Audios</archives></start></devices></devices>	id end time> from <devi< th=""><td>ces&gt;</td><td></td><td></td><td>~</td></devi<>	ces>			~
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Help	Cancel	< Back	Next >	F	Finish	

6. Select a preset to apply to the rule, then click Add. Click OK to close the window.

Select Targets	×
Targets:         ● All Presets         ● Old Presets         ● O	Selected: Add  Remove
	OK Cancel

7. Click **Finish** to complete the rule creation.

You can see detailed information on the rules you have created.

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# Using an Intercom

You can call or open doors through the Hanwha Vision intercom device using the Hanwha Vision Plugin. You can also see call history and export the video you want.

### Setting up an Intercom Device

You can register and activate an intercom device.

- 1. Launch the **XProtect Management Client** program and refer to <u>Registering Camera Manually</u> complete registration of the intercom device.
- 2. Check microphone port 1, speaker port 1, metadata port 1, input port 1, and output port 1 items from the Add Hardware window, then click Next.

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lardware name templat	e:				Device name	template:			
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🖂 Hardware	🗹 Camera	🖓 Microphone		🖂 Speaker		🖂 Metadata	🗌 Input	🗌 Output	
Hardware to Add			Enabled	Name					
Hardware:				Hanwha Te	chwin TID-600R (	192.168.217.61)			
Camera port 1:				Hanwha Te	chwin TID-600R (	192.168.217.61) - Camer	a 1		
Microphone port 1:				Hanwha Te	chwin TID-600R (	192.168.217.61) - Microp	hone 1		
Speaker port 1:				Hanwha Te	chwin TID-600R (	192.168.217.61) - Speak	er 1		
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of Input port 2:				Hanwha Te	chwin TID-600R (	192.168.217.61) - Input 2	2		
Output port 1:				Hanwha Te	chwin TID-600R (	192.168.217.61) - Output	1		
Output port 2:				Hanwha Te	shwin TID-600R (	192.168.217.61) - Output	2		

3. Check the added device.

Click Finish to complete the device registration.

Add Hardware				— 🗆 X
Select a default group for all devices type Alternatively, select device group individ	s. ually for each dev	ice.		milestone
Default camera group:		Devices	Add to Group	
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If an intercom device is already registered, launch the **XProtect Management Client** program to activate the recording server device (microphone 1, speaker 1, metadata 1, input 1, output 1).

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## Setting Call Request Events

You can enable the Milestone system to receive call request events from intercom devices.

- 1. Launch the XProtect Management Client program.
- 2. Select Servers > Recording Servers.
- 3. Select a device to set an event, then click Add.

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Mobile Servers	Harwish Techwin TD-600H (192:168:2116) - Speaker 1	
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4. Select Call Request from the Select Driver Event window, then click OK.



5. Check the added Call Request event in the Configured events list.



## Answering Call Requests

You can accept or decline call requests from intercom devices and open doors.



#### Note

The Hanwha Vision Intercom plug-in can receive call request events from multiple PCs (clients) connected to the same Milestone server and view the call history.

- 1. Launch the XProtect Smart Client program.
- 2. Click the Live tab.
  - To use the plug-in properly, create a view if there is no view in use.



**3.** If a call request event occurs in the intercom device, the call window is displayed. Select the function you want to control.

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• If there is no action for 30 seconds after the call window is displayed, it is treated as a missed call, and the contents are displayed.



4. Select the function you want to control.



- X: Close the call window without interacting with the other party. If you click X when there is no other PC (client) receiving the same call request event, it is treated as a missed call and the details are displayed.
- Accept: Speak to the other party.
- Door: Open the door.
- **Decline**: Decline the call.
- Hold/Resume: Use during a call after clicking Accept, and it can turn on or off the microphone.
- End: End the call.
- If the Auto close call window feature is enabled, the Door, Decline, and End actions occur and the call window closes after three seconds. For more information, please refer to <u>Setting Client</u>. Use.

## Viewing the Call History

You can check the call history for the past one week on the intercom device. You can also play or export the videos that you want.



Note

You can check the call history older than a week under **Settings** > **Alarm Manager**.

- 1. Launch the XProtect Smart Client program.
- 2. Click the Live tab.
- 3. Click Call History.

A list of calls is displayed, and you can view the details of the call history.



4. To playback an event video, click the item you want from the list.

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 If you want to extract an event video as a file, check the item you want from the list. Click Export, then select MKV, AVI, or DB for the file format, and export it.



## Setting Client Use

You can change the ringtone to use and the call window settings for call request events in the intercom device.

- 1. Launch the XProtect Smart Client program.
- 2. Click the Live tab.
- 3. Click More > Settings.

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4. Click Hanwha Vision Intercom and set the function you want.

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Joystick				
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Access control				
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Help			C	ose

#### • Ringtone

- You can change the intercom ringtone. Click the button, then select the sound source file you want.
- Check **Loop** to play the sound source file on repeat.
- Intercom pop up window
  - If you uncheck **Receive calls on this client**, the current PC does not display the call window for the call request.
  - If you check **Auto close call window**, the call window automatically closes when a door is opened, a call is rejected, a call is ended, or a missed call occurs in response to a call request.
- Reset
  - You can initialize all settings.

# Setting up Vehicle Management

The Hanwha Vision Plug-in allows you to add groups for vehicle management and register license plate information. When a license plate included in a group is detected, an analytics event is triggered.



#### Note

- An analytics event is automatically generated using the name of the group added in Vehicle Management.
- To use analytics events, click the Enabled checkbox located under XProtect Management Client > Tools > Option > Analytics events.

## Adding Groups

- 1. Launch the XProtect Management Client program.
- 2. Select Hanwha Vision Plug-in > Vehicle Management.



- Add group: You can add a new group.
- **Group name**: You can rename the group. Group names cannot be duplicated.
- **Register**: You can add license plate information.
- Import: You can import a CSV file containing license plate information.
- Export: You can export the entered license plate information as a CSV file.
- **Delete**: You can delete the selected license plate information.

## **Setting Rules**

- 1. Launch the XProtect Management Client program.
- 2. Select Rules and Events > Rules.

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3. Select Rules, then right-click it and select Add Rule.

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4. Enter the name of the rule to add.

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#### 5. Click event.

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6. Select the generated event, then click **OK**.

Select an Event	×
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OK Cancel	

7. Click devices/recording server/management server.

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8. Select the camera for detecting the event you created, then click Add. Click OK to close the window.

Select devices and groups	×
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9. Select the action to perform when an event is detected by the selected camera, then click Finish.

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## Using the Camera Function

#### The Hanwha Vision Live Plug-in allows you to control various functions of the camera.



#### Note

- The supported functions of the Plug-in are as follows:
  - PTZ and general functions: Zoom, focus, auto focus, focus initialization, dynamic GOV, dynamic FPS, backlight, IR, day/night mode, WiseStream, heater, wiper, and spinning dry
  - Share thermal/true image metadata
  - Spot temperature display
- Camera functions cannot be used on virtual channels.
- Depending on the camera model, supported control functions may vary. For more details, refer to the camera specifications.
- 1. Execute the XProtect Smart Client program.
- 2. Click the Live tab.
- Click icon on the channel where you want to control the camera's functions. The supported functions of the camera display in the Video profile, Camera setup, and Wisestream menu.

Select the function you want to control a camera.





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4. Select a channel to control camera functions.

The supported functions with the camera are activated in the **Hanwha Vision** menu. Select the function you want to control a camera.



### Q

- Note
- Depending on the camera model, supported control functions may vary. The following functions appear on the panel to the right if available.
  - Metadata sharing, spot temperature, wiper, heater, spinning dry

#### • Zoom

You can zoom in or out the video by using the camera's zoom.

#### • Focus

You can manually move the camera's focus closer or further away.

#### Auto focus

You can automatically adjust the focus of your camera.

Adjust the focus manually, as the function may not properly operate in the following cases.

- When the object moves or disappears during focusing
- When there is a sudden change in luminance during focusing
- When the contrast of the video is low
- When there are strong light sources around
- When the focus was not initialized

#### Initialize focus

You can initialize camera focusing to default values. It is recommended to perform a focus initialization when using a camera for the first time.

#### • Dynamic GOV

By applying the optimal GOV value depending on the degree of movement in the video, you can reduce its capacity and view a high-resolution video. In the video with little movement, the GOV length is increased. When any motion is detected, the GOV length is reduced to operate at the optimal GOV value.

#### • Dynamic FPS

By applying the optimal FPS value depending on the degree of movement in the video, you can reduce its capacity and view a high-resolution video. In the video with little movement, the minimum FPS value is applied to reduce the bitrate of the entire video. When any motion is detected, the FPS value is increased to operate at the optimal FPS value.

#### Backlight

The backlight mode can express both bright and dark areas well at the same time in a backlit situation.

In backlight mode, noise may occur between bright and dark areas.

#### • IR

By using the IR uniformly in an environment without light, the dark areas outside the image are minimized so that subjects can be easily identified.

The supported specifications may differ depending on the camera model. Refer to your camera's specifications for more information.

- Off: IR mode is disabled.
- On: IR is enabled.
- Auto: The IR brightness is automatically adjusted according to the brightness of the subject in the center of the screen.
- **Auto 1**: The IR brightness is automatically adjusted according to the brightness of the subject in the center of the screen.
- **Auto 2**: The IR brightness is automatically adjusted according to the brightness of the subject in the center or periphery of the screen.
- Manual: The IR brightness can be adjusted manually.
- Day/Night: The IR turns off if the image is expressed in color. Otherwise, the IR turns on.
- Sensor: The IR mode is changed depending on the amount of light from the optical sensor.
- Schedule: Set the IR On time.

#### Day/Night

You can change the video to color or B/W depending on your camera conditions. By setting the conversion time, the video can be switched to color or B/W upon the schedule. While switching between day and night modes, motion detection events or video analytics events are not detected.

Supported specifications may vary depending on the camera model. For more details, refer to the camera specifications.

- Color: Videos are always output in color.
- **B/W**: Videos are always output in black and white.
- Auto: Videos are switched to color in the daytime and to B/W at night or a low light level.
- **External**: When the alarm input terminal is integrated with an external device, you can switch to the color or black and white.
- Timed: The day and night mode changes according to the schedule set in the Web viewer.

#### WiseStream

You can select a WiseStream mode. Use WiseStream to select the bitrate reduction level to apply: Low, Medium, and High.

If you do not use WiseStream, select Mode off.

Supported specifications may vary depending on the camera model. For more details, refer to the camera specifications.

- WiseStream: It operates based on motion detection. Bitrate is reduced by lowering the image quality in other areas while keeping the image quality in the target area. In the environment with no movement or low complexity, the bitrate reduction effect may be high. However, in the environment with lots of movements or high complexity, the bitrate reduction effect may be low.
- WiseStream III: It operates based on the AI object detection area. As the size of the object detection area becomes smaller, the bit rate decreases, and as the size of the area becomes larger, the bit rate increases.

Metadata sharing

Metadata can be shared between true images and thermal images. When an event (object) occurs on a specific channel, it transmits the analytics information to other channels and displays an object analytics area on the screen based on the transmitted analytics information.

#### • Spot temperature

You can see the temperature by clicking a desired spot on the view of a thermal imaging camera that supports temperature information.

When you click a spot to check the temperature in the video of the active channel, the temperature appears next to the mouse pointer.

The temperature unit of display may differ dependig on the camera setting.



#### • Heater

If there is frost, run the heater to remove the frost. Since the heater is activated automatically based on the ambient temperature, it may operate differently from how the user settings are configured.

#### • Wiper

Run the wiper to clear the lens of rainwater or other foreign substance.

#### • Spinning dry

Spin the camera at high speed to remove rainwater or other foreign substance.



#### Note

You can use the **Hanwha Live Plug-in** function by accessing it with an administrator account. If you are accessing it with a general account, set the **View hardware password** to **Allow**.

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## **Monitoring Events**

You can check the realtime event for the sound source (scream/gunshot/crashing glass) which occur in the registered device.

When a sound event occurs on a camera that supports the Sound Classification feature, the **Sound Event** pop-up window is displayed.

The pop-up window displays the device where the event occurs, time, information on properties, and sound source playback control bar.



# Searching for AI Analytics Events

Al analytics events save only one event per object based on the most accurate time of recognizing an object (Person/Face/Vehicle/License plate/Wisenet Road Al/User defined/Al Pack/barcode) that is being continuously analyzed by the Al camera.

You can search for the saved events by setting the details of each object or camera area.

## Searching for Persons

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- **3.** Select a search start time, end time, and camera, and click the **Search for...** button. Additional search filters will be displayed.



4. Select Person from the search criteria, and click the New search button. Person will be added to the search criteria, and the filter window will appear. Click the checkbox of detailed items to check the search results right away. Click the Clear button to delete the selected item.

From the list, you can select an event and play its video.



- If you select Male only from Gender, women and objects with unrecognized gender are excluded from the search results.
   If you select both Male and Female, objects with unrecognized gender are excluded from the search results.
- If you select **Male** and **Bag**, only objects recognized as male wearing a bag are included in the search results.
- For **Color**, up to two colors can be selected. Searching is valid if any one of the two colors is present.
- 5. Close the filter window by clicking X to complete the setup.



- Click **m** and the filter window will appear again, and the detailed items can be changed.
- Click **X** to remove **Person** from the search criteria.



## Searching for Faces

- 1. Launch the XProtect Smart Client program.
- 2. Click the Search tab.
- **3.** Select a search start time, end time, and camera, and click the **Search for...** button. Additional search filters are displayed.

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4. Select Face from the search criteria, and click the New search button.
Face will be added to the search criteria, and the filter window will appear.
Click the checkbox of detailed items to check the search results right away.
Click the Clear button to delete the selected item.
From the list, you can select an event and play its video.



- If you select Male only from Gender, women and objects with unrecognized gender are excluded from the search results.
   If you select both Male and Female, objects with unrecognized gender are excluded from the search results.
- If you select **Male** and **Glasses**, only objects recognized as males wearing glasses will be included in the search results. Objects not wearing glasses and objects that may not be wearing glasses will be excluded from the search results.
- If you select **Young** only from **Age**, Adult/Middle age/Senior and objects with unrecognized age are excluded from the search results.
- If you select both **Glasses** and **No glasses**, objects with indeterminate results for whether glasses are worn will be excluded from the search results.
- If you select both **Mask** and **No mask**, objects with indeterminate results for whether a mask is worn will be excluded from the search results.



5. Close the filter window by clicking **X** to complete the setup.

- Click **m** and then the filter window appears again, and the detailed items can be changed.
- Click X to remove Face from the search criteria.



## Searching for Vehicles

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- **3.** Select a search start time, end time and camera, click the **Search for...** button. Additional search filters are displayed.

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4. Select Vehicle from the search criteria, and click the New search button. Vehicle will be added to the search options, and the filter window will appear. Click the checkbox of detailed items to check the search results right away. Click the Clear button to delete the selected item. From the list, you can select an event and play its video.



- If you select **Bus** only from **Type**, those objects with unchecked or unrecognized types are excluded from the search results.
- For **Color**, up to two colors can be selected. Searching is valid if any one of the two colors is present.



5. Close the filter window by clicking **X** to complete the setup.

- Click **w** and then the filter window appears again, and the detailed items can be changed.
- Click **X** to remove **Vehicle** from the search criteria.



## Searching for Vehicle License Plates

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- **3.** Select a search start time, end time and camera, click the **Search for...** button. Additional search filters are displayed.

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Select License plate from the search criteria, and click the New search button.
 License plate will be added to the search criteria, and the search results can be checked.
 From the list, you can select an event and play its video.

- License plate searches for a vehicle license plate. If you want to search by manually entering a vehicle license number, see <u>Searching for Wisenet</u>. <u>Road Al</u>.
- 5. Click X to remove License plate from the search criteria.



## Searching for Wisenet Road AI



Note

Wisenet Road AI search is only available on cameras with the WisenetRoadAI or ParkWatch application installed.

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- **3.** Select a search start time, end time and camera, click the **Search for...** button. Additional search filters are displayed.

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4. Select Wisenet Road AI from the search criteria, and click the New search button. Wisenet Road AI will be added to the search criteria, and the filter window will appear. Click the checkbox of detailed items to check the search results right away. Click the Clear button to delete the selected item.

From the list, you can select an event and play its video.



- You can select Country/Region and Color without number limits.
- For some countries, you can search by selecting specific regions.
- You can enter the license plate number of a vehicle that you want to search for in License plate. You can also enter multiple conditions for search, separated by commas. (e.g. 3690, ABC1234, 1ABC234)
- You can select the manufacturer or model name of the vehicle that you want to search by clicking the **Edit filter** button in the **Manufacturer/Model**. Click the **O** button to reset your selection.
- In the search results, the following vehicle information can be found:
  - Country/Region, License plate, Manufacturer/Model, Type, Vehicle color, License plate color
- You can select **Whitelist** (registered vehicle), **Blacklist**, or **Undefined** on the vehicle classification criteria.

Undefined indicates all vehicles, excluding Whitelist and Blacklist.

5. Close the filter window by clicking X to complete the setup.



- Click **m** and then the filter window appears again, and the detailed items can be changed.
- Click X to remove Wisenet Road AI from the search criteria.



## Searching for User defined



Note

User defined search is only available in camera model(P AI series) that support the WiseDetector function.

- 1. Launch the XProtect Smart Client program.
- 2. Click the Search tab.
- 3. Select a search start time, end time, and camera, and click the **Search for...** button. Additional search items are displayed.

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- Select User defined from the search criteria, and click the New search button.
   User defined will be added to the search criteria, and the search results can be checked.
   From the list, you can select an event and play its video.
  - User defined searches the object that is defined through the camera's WiseDetector function. For specific usage methods, refer to How to use WiseDetector on the Device Manager.

5. Click the X to remove User defined from the search criteria.



## Searching for AI Pack

### Q

- Al Pack search is available only in cameras with the Al Pack license applied. For detailed instructions on the usage, refer to the Al Pack specifications.
- The plug-in supports two apps out of the four in the AI Pack: Retail&Business pack and Factory&Safety pack.
- 1. Launch the XProtect Smart Client program.
- 2. Click the Search tab.

Note

**3.** Select a search start time, end time, and camera, and click the **Search for...** button. Additional search items are displayed.



4. Select AI Pack from the search criteria, and click the New search button. AI Pack will be added to the search criteria, and the filter window will appear. Click the checkbox of detailed items to check the search results right away. Click the Clear button to delete the selected item.

From the list, you can select an event and play its video.



- The event search results for the **Sound Classification pack** display the device where the event occurs, time, information on properties, and sound source playback control bar, but no video thumbnails.
- 5. Close the filter window by clicking **X** to complete the setup.



- Click **m** and then the filter window appears again, and the detailed items can be changed.
- Click X to remove AI Pack from the search criteria.


# Searching for Barcodes

### Q

#### Note

To facilitate the use of the plug-in, you should set the second profile resolution of No.2 channel on the BCR camera differently from the profile resolution being used in the Milestone. You can change the resolution of the camera in the camera web viewer. For details, refer to the related items in **Hanwha Vision website** > **QUICK LINKS** > **Technical Support Portal** > **Hardware** > **Cameras**.

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- 3. Select a search start time, end time and camera, click the **Search for...** button. Additional search filters are displayed.



- Select Barcode from the search criteria, and click the New search button.
   Barcode will be added to the search criteria, and the search results can be checked.
  - Even partial input of the barcode will display all search results including the input barcode.
  - The thumbnail images do not appear in the barcode event search results.

5. Click X to remove Barcode from the search criteria.



## Setting up Event Area

- 1. Execute the XProtect Smart Client program.
- 2. Click the Search tab.
- 3. Select a search start time, end time and camera, click the **Search for...** button. Additional search filters are displayed.

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4. Select a search item you want, and click the **New search** button.

The selected item will be added to the search criteria, and the filter window will appear.

• Person, face, vehicle, license plate, user defined, and AI Pack can be searched by setting the area.

Wisenet Road AI and barcode do not support area settings.

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 After setting the details, click the Edit filter button. Then, the Adjust Area setting window will appear.



6. Select the camera for area setting, and set the area you want.



- Add: You can drag the mouse to set the area you want.
- **Delete**: You can drag the mouse to delete a previously set area.
- Delete all: You can delete all areas previously set for the selected camera.



Note

Up to 4 camera areas can be set at the same time.

7. To finish the setup, click **Close**.

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