

Al Plugin for Wisenet WAVE VMS

User Manual: Installation, Activation, Configuration, Update



Publishing Date: September 24, 2024 WAVE AI Plugin version: 2024.2.3

AI Plugin for Wisenet WAVE VMS

User Manual: Installation, Activation, Configuration, Update

Plugin Overview

The AI Plugin for Wisenet WAVE VMS is a solution developed in a partnership with CVEDIA to provide AI analytics on cameras without embedded analytics capabilities.

Integration Details

- The Plugin can be installed on the following servers alongside the Wisenet WAVE application: WRR-P-S202(X), WRR-P-S204(X), WRR-P-S206S, WRR-P-S206S1, WRR-Q-A200W, WRR-Q-A201W.
- This integration enables users to run ± 16 Al channels utilizing the Nvidia T400 GPU and up to ± 12 Al streams with Nvidia P400 GPU (on WRR-Q-A200W, WRR-Q-A201W) models.
- On a single AI channel, users can enable multiple analytics at the same time. This will not impact the performance of the system.

Key Features

Key features of this integration include the detection of people, vehicles, and animals with a variety of associated analytics:

- Intrusion detection
- Area enter/exit
- Loitering
- Object guarding
- Object left behind
- Crowding
- Tailgating
- Line crossing

Surveillance operators can configure the analytics and create custom rules for triggering events within the Wisenet WAVE VMS to leverage these alerts and make informed decisions in real-world situations.

This guide will walk you through the installation, setup, and usage of this integration.



Specifications and Requirements

AI Analytics Plugin

- Version 2024.2.3 or higher
- Appropriate licensing

Wisenet WAVE VMS

• WAVE AI Plugin is compatible with Wisenet WAVE v5.1.4 or higher and Wisenet WAVE v6.x.x

Supported Decoders

- "video/h264" for H264 streams
- "video/hevc" for H265/HEVC streams

Supported Hardware Series

- WRR-P-S202W, WRR-P-S202S, WRR-P-S202L
- WRR-P-S204W, WRR-P-S204S, WRR-P-S204L
- WRR-P-S-206S
- WRR-P-S206S1
- WRR-Q-A200W
- WRR-Q-A201W

System Requirements

Windows:

- Windows 10 Professional; Windows Server 2016 Standard; Windows 10 IoT Enterprise LTSC 2021; Windows Server 2019/22 Standard; Windows 10 IoT Enterprise
- 7GB disk space

Linux:

- Ubuntu 22 or higher; Debian 11
- 5GB disk space



Table of Contents

Section 1: Installation and Activation	5
Installation: Windows	5
Installation: Linux	7
Enabling the Plugin	8
Applying a License to Activate the Plugin	. 11
Section 2: Analytics Configuration	12
Intrusion Detection	13
Area Enter/Exit	14
Loitering	15
Object Guarding	16
Object Left Behind	17
Crowding	18
Tailgating	19
Line Crossing	20
Creating Rules	21
Section 3: Plugin Settings	23
Camera Settings	24
Camera Orientation	24
Al Tracking Speed	24
Excluded Areas	25
Section 4: System Administration	26
Operating Modes	26
Automatic Stream Selection	28
Video Streams Configuration	29
Settings	30
Overlay Statistics	30
Enable Expert Mode	31
Max AI Resolution	32
Detection Sensitivity	32
Movement Sensitivity	32
Section 5: Updating the Plugin	33
Update: Windows	33
Update: Linux	33
Section 6: Uninstalling the Plugin	34
Uninstall: Windows	34
Uninstall: Linux	34



Section 1: Installation and Activation

Installation: Windows

- 1 Ensure you have Wisenet WAVE Server installed on your machine.
- 2 Download the Al plugin installer from the official website:

https://hanwhavisionamerica.com/product/wisenet-wave-ai-plugin/

8 Run the AI plugin installer on the machine where the Wisenet WAVE Server is installed.



Ouring installation, activate a trial license, or activate it later in the Plugin Settings after installation is complete.





5 Once installation is complete, restart (stop and start again) the Wisenet WAVE Server. This action is necessary for the plugin to be detected by Wisenet WAVE VMS.

G Setup - AI Plugin for Wisenet WAVE VMS version 2024.2.3 -			×	
🚱 Hanwha Vision	Completing the AI Plugi WAVE VMS Setup Wizard	n for d	Wise	net
WAVE	Setup has finished installing AI Plugin for Wiser computer. Click Finish to exit Setup.	Net WAVE	VMS on yo	ur
	C	Einish]	

6 Verify the Installation

- Open the WAVE Client
- Open the System Administration settings from the hamburger icon in the top left corner (or by pressing Ctrl+Alt+A)
- Select the Plugins tab
- Confirm that the WAVE AI plugin is listed on the left menu

E newsared x +	av.		6 X
Connect to Acother Server.	COMMENT		🥔 🗧 🖡 🔺 💥 Goorg
Unconsent from Server	10Hontell		Said Abanda
how			
figer		😨 System Administration - Warrent WAVE Client T 🛛 🛪	Stilleren mikest #
Dari Schwir Recording	2010	General Lowers Haddings Comment Titler Jacobies HARD Series Theoremain Products Antonion	
Dyslers Abravalueter.	and an		
User Management Local Settings Audo Trail Backman Loo	1948	Week W KARA KARA KARA KARA KARA KARA KARA KA	
AddDever Mege Dystem		Operating mode inquire service restar()	
About Uper Manual	т	No.1. (Standard) U	
Seve Witshow Configuration			
Let .	40149-6	Settings	
		te di overvinient ⊡ tinde seertinee	
		Di Atti	



Installation: Linux

To install the AI plugin for Wisenet WAVE VMS on a Linux platform, please follow these steps:

- 1 Ensure you have Wisenet Wave Server installed on your machine.
- 2 Access your terminal application. This can typically be found in your system's applications menu.
- **3** Run the automated installation script.

curl -sqko - https://get.cvedia.com/wave | sudo bash

Press "Enter" to execute the command. This script will automatically download and install the AI plugin for Wisenet WAVE VMS.

Notes Follow on-screen prompts: During the installation process, you may be prompted to enter your system password to grant the necessary permissions. Enter your password and press "Enter". The script will handle the download and installation of all required components. Please wait until the installation is complete.

4 Verify installation.

Once the installation is finished, you can verify the plugin installation by opening the Wisenet WAVE VMS application and checking the plugin section in the settings.



Enabling the Plugin



1 Open the Wisenet WAVE VMS Client and connect to the server where you installed the AI plugin.

2 Right-click on a connected camera or a video stream and select "Camera Settings."



3 Navigate to the Plugins section of the Camera Settings window and enable the plugin. Click the "Apply" button before proceeding with any further configuration.





🔚 Notes

- Analytics work only when the camera is being viewed or recording is enabled.
- If you don't see the toggle to enable the plugin right away, please click on the WAVE AI title on the left sidebar first.

Apply a license to activate the plugin, and <u>configure the analytics</u> from the left sidebar menu.

5 Click "OK" to save the settings.





6 Go to the "OBJECTS" tab on the top right to preview the detected objects.



7 To generate events, <u>define the camera rules</u> in WAVE:

- Right-click on the camera and select "Camera Rules."
- Add a new rule based on Analytic Events.

8 Monitor the events in the "EVENTS" tab.

• The image of the event may not represent the exact moment when the event was triggered. The system shows the best available crop based on the object size and detection confidence level, to prevent showing occluded or partially cut objects.



Eearn More

- Visit <u>Section 2: Analytics Configuration</u> of this manual for additional configuration guidance on Al plugin.
- Visit the official WAVE VMS guide: <u>https://wavevms.com/data/help/index.html</u> to learn more about creating rules and monitoring events.



Applying a License to Activate the Plugin

- 1 Navigate to Camera Settings and open the Plugins tab.
- 2 Select Licenses on the left side menu panel.
- 3 Activate a trial license or apply a purchased key (keys) in the designated field.
- **4** Click "Assign key" and **apply the settings before closing the window.**

w Camera Settings - Came	tra 1 - Wisenet WAVE Client	?	x
General Recording Methon	been Bight Econt		
WAVEAI	License keys		
Andrifsten Intituukon detaction Area enter/reatt Lohennig Ötgeret gundling Ötgeret gundling Ötgeret gundling Ütgering Tallgeming Line onsesting Excluded ansat	C Science - scie		
Comera ansistics will work only	Activate Yale Romes		
Contena analysica wai work only	vnietiča na a razna venes črasle izovojný su nake ti kolik ali vie vnie.		
	ОК: Аррђу	Cane	sel

Notes

- Once activated, the license is bound to the device (the WAVE server).
- The number of streams indicates a maximum number of concurrent cameras running analytics. To increase this limit, obtain a new license with additional streams and activate it.
- To use the same license key on a different device, deactivate it by clicking the "Revoke Key" button in the Licenses window.



Section 2: Analytics Configuration

Different types of analytics allow you to configure one or more detection areas or lines, choose the types of objects to detect, and select additional related parameters.

Analytics are active only if at least one area or one line is defined.

Please note that you can enable multiple analytics at the same time. This will not impact the performance of the system.

Best Practice Guide

Users can optimize the performance of the AI Analytics Plugin for Wisenet WAVE VMS with our best practice configuration advice. You can download the PDF file from the product page on the official website:

https://hanwhavisionamerica.com/product/wisenet-wave-ai-plugin/

This document covers how to define detection areas and lines, enhance accuracy, minimize false positives, and offers practical insights and instructions to ensure your surveillance system is fine-tuned for maximum efficiency and reliability.



Intrusion Detection

Definition

Detects objects that move inside a defined intrusion area. The event is triggered for any new target object (person, vehicle, animal) entering the area.



- Navigate to Camera Settings > Plugins > WAVE AI > Intrusion Detection.
- Click directly on the image under "Intrusion area 1" to define the intrusion detection zone.
 Draw a custom polygon to encompass the area for intrusion detection.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Select the different Object Types (person, vehicle, animal, unknown) that you would like to detect within each defined area.
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Intrusion area 2" if necessary.



Area Enter/Exit

Definition

Detects objects that enter/exit a defined area. This analytic can be employed to monitor objects detected in the area without triggering an intrusion event.



- Navigate to Camera Settings > Plugins > WAVE AI > Area Enter/Exit.
- Click directly on the image under "Area 1" to define the zone. Draw a custom polygon to encompass the area for object detection.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Select the different Object Types (person, vehicle, animal, unknown) that you would like to detect within each defined area.
- Select which event to trigger Enter & Exit, Enter Only & Exit Only
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Area 2" if necessary.



Loitering

Definition

Detects objects that stay in the defined area longer than a specified time. By default, an event will be triggered when a target object remains in the area for a duration of 10 seconds.



- Navigate to Camera Settings > Plugins > WAVE AI > Loitering.
- Click directly on the image under "Area 1" to define the zone. Draw a custom polygon to encompass the area for object detection.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Select the different Object Types (person, vehicle, animal, unknown) that you would like to detect within each defined area.
- Set the duration threshold for triggering events.
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Area 2" if necessary.

Object Guarding

Definition

省

Detection of objects being removed from a specified area, indicating potential theft.

🐨 Camera Settings - Camera 1 - V	Visenet WAVE Client	?	×
General Recording Motion Dewa	arping <mark>Plugins</mark> Expert		
General Recording Motion Deway WAVE AI ^ Analytics ^ Analytics ^ Intrusion detection ^ Area enter/exit - Loitering - Object guarding - Object left behind - Crowding - Tailgating - Line crossing - Excluded areas - Licenses -	Area 1 Object Guarding		
Camera analytics will work only when ca	amera is being viewed. Enable recording to make it work all the time.		
	ОК. Арріу	Canc	el

- Navigate to Camera Settings > Plugins > WAVE AI > Object guarding.
- Click directly on the image under "Area 1" to define the zone. Draw a custom polygon to encompass the area for object guarding.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Set the duration threshold for triggering events.
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Area 2" if necessary.

Object Left Behind

Definition

 \equiv

Detection of objects being left in a specified area, indicating potential delivery or object abandonment.

- Navigate to Camera Settings > Plugins > WAVE AI > Object left behind.
- Click directly on the image under "Area 1" to define the zone. Draw a custom polygon to encompass the area to detect objects left behind.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Set the duration threshold for triggering events.
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Area 2" if necessary.

Crowding

E

Definition

Detects when the number of objects within a defined area at any given time reaches a set threshold. For instance, it could be a useful feature to detect a sudden increase of people in a queue in front of an ATM or in a commercial environment.

- Navigate to Camera Settings > Plugins > WAVE AI > Crowding.
- Click directly on the image under "Area 1" to define the zone. Draw a custom polygon to encompass the area for object detection.
- Tick the "Display on Video" box to visualize the defined area on the live video stream.
- Select the different Object Types (person, vehicle, animal, unknown) that you would like to detect within each defined area.
- Specify the minimum number of objects required to trigger an event.
- Additional zones can be defined by clicking "+ Add". Draw a different polygon under "Area 2" if necessary.

Tailgating

Definition

The tailgating feature detects if more than one object crosses a virtual line during a predefined time interval. This feature could be useful for detection of multiple individuals or vehicles following each other in close proximity to gain access to a secured area.

- Navigate to Camera Settings > Plugins > WAVE AI > Tailgating.
- Click directly on the image to create a virtual line.
 - Click once to create new points of the line, then click on the last point to end it.
 - Define the direction of movement for object tracking. Click on the Arrows to choose which direction you would like to use to trigger events.
- Tick "Display on Video" to visualize the configured virtual lines.
- Additional lines can be defined by clicking "+ Add". Draw a different line under "Line 2" if necessary.

Line Crossing

Definition

E

Detects objects that cross a defined line. You have the option to create a multi-segment virtual line. This feature allows you to select the direction in which you intend to monitor the movement of objects.

- Navigate to Camera Settings > Plugins > WAVE AI > Line Crossing.
- Click directly on the image to create a virtual line.
 - Click once to create new points of the line, then click on the last point to end it.
 - Define the direction of movement for object tracking. Click on the Arrows to choose which direction you would like to use to trigger events.
- Tick "Display on Video" to visualize the configured virtual lines.
- Select the different Object Types (person, vehicle, animal, unknown) that you would like to detect over line crossing.
- Additional lines can be defined by clicking "+ Add". Draw a different line under "Line 2" if necessary.

Creating Rules

2 Click in on the "+Add" button at the top right corner.

Output: Comparison of the second s

b At: select the relevant camera(s)

G Event Type: the event type to be triggered

d Do: specify actions such as desktop notification, email, sound, or bookmark creation.

Bookmarks allow you to navigate the recording back in time to the exact moment when the event occurred (the video recording function should be enabled)

When Analytics Even		Do Sendemail	
At 😈 Camera I		to 🔒 All Administrators	
	Entering the area		Ç min 🖌
	Keywords separated by space		Global Email Settings
	Reywords separated by space		
📅 Schodulo			
Restore All Rules to Defeu			OK Apply Cancel

Rotes

For event types "Intrusion" and "Loitering", there will be an additional setting (Starts or Stops) so you can choose whether an event gets triggered when intrusion starts or stops (when you only want to know when a person or a vehicle leaves the area).

When Analytics Event	í ý	Starts ^	Do Sendemail	
Al 😈 Gamera 1		Starte	to 🛃 All Administrators	
	Intrusion detection	sups	🖻 Interval of action : No more than once per 1. 🗘 min 👻	
	Keywords separated by space		Additional Regiments Global Email Setting	s
	Keywords separated by space			
🔟 Schedule				
Restore All Rules to Defau	t.		ОК Аррћу С	ancel

Section 3: Plugin Settings

Plugin Settings allow users to optimize analytics performance for their specific use case.

To navigate to the Plugin Settings:

Right-click on the video stream and select "Camera Settings."

2 Click on the Plugins tab and select WAVE AI on the left menu panel.

Camera Settings

Camera Orientation

If the camera is mounted in a rotated position and you've changed the "Default Orientation" in the General tab of the Camera Settings, make sure to update the "Camera Orientation" in the Plugin Settings to match.

AI Tracking speed

The AI Tracking speed feature enables users to adjust the frame rate at which the AI processes data.

Modifying this from the default setting may impact server performance and reduce the number of AI streams that can run simultaneously on the same device.

Default:	5 FPS	Optimized for most of the security surveillance use cases.
Fast:	10 FPS	Optimized for tracking faster moving targets (e.g. cyclists).
Very Fast:	15 FPS	Optimized for capturing targets that move very fast
		(e.g. electric scooters).

Excluded Areas

Objects in excluded areas would not trigger any events from the configured analytics.

To navigate to Excluded Areas settings:

- Right-click on the video stream and select "Camera Settings."
- Click on the plugin tab and select WAVE AI on the left menu panel.
- Click on Excluded areas on the left side menu panel.

Apply Excluded Area settings to reduce recurring False Positives and enhance detection precision in the area of interest, especially when there is persistent movement in adjacent areas (e.g., a busy road near a sidewalk).

🗐 Notes

Applying Excluded Area settings does not impact recordings on disc. This feature is not a replacement for privacy masks and should be used to focus detection on specific parts of the scene.

Section 4: System Administration

The plugin includes system-wide settings that apply to all cameras connected to the server. Please note that some settings will only take effect after restarting the media server.

To navigate to System Administration:

- 1 Click on the "hamburger icon" in the top left corner of the WAVE Client and select "System Administration..." or press the Ctrl+Alt+A key combination.
- 2 Navigate to the "Plugins" tab and click on the plugin name on the left menu panel.

Operating Modes

Important

Changing these settings requires restarting the media server

Operating modes settings allow users to optimize the computational load based on specific surveillance use cases.

C2 - Basch	A A A A A
Solution caraotic sector and sect	erch Advanced
 	7 Camaran on Navid (10)
s CO Web Pages E bernen Laures laphelles Laphene Final lacute WHEEbyc Timelyna Busing Pages Annanuel E berneffen	i Soluti era
WAYE AI III Program the Manager Status (Sections) Version 2004 23 Version 2004 200 Versi	For characteristic distribution of the constant of the constan

Standard Mode

Standard mode is the default suggested profile, offering optimal performance while maintaining high precision for common security analytics. **This mode uses the secondary camera stream**. This configuration ensures a balance between system performance and detection accuracy.

Hi-res Mode

Hi-res mode utilizes a larger AI model and the primary camera stream, enhancing the detection of smaller targets at a distance or in more crowded environments. Enable this mode only if the Standard mode proves insufficient.

Automatic Stream Selection

New Lascust X +			? - 8 ×
Donnact to Another Server	Carrietted		🧟 🕺 R 🗛 🕺 🛣 ouices)
The contract from Balance	mire men		Learnit Atternet
New .	×		El Anotana
Open	8	Varians Advanceduations - Wasser WAVF Claure 2 x	Set Convintion Inputer 14
Start Screen Recording	6216	design and an and a second secon	12 Salari ave
Bystem Administration	CORP.444	market these theorem is the second market with the second second second	
User Malagement. Local Settings. Audi Trel. Bookmark Log.	0148	WARK AL WAAVE AL Af Phage In the American Warks Public Vorsion 2024-22 Voelab Hermitel Vision	
Abd Device Morge systems		Operating mode (require service restart)	21000
About. Usur Marcial	21	Public Bundland 😀	
Save Attodows Configuration	NI I	(Participant)	Mandperty
ind .	Atres	acting a	The charge in the block of midgane shared
		Convert	

When enabled, Automatic Stream Selection configures the streams as follows:

- Standard mode: Uses the secondary stream.
- Hi-res mode: Uses the primary stream.

When disabled, you can override the stream selection for running analytics. Disabling this feature allows you to select either the Primary or Secondary stream for running analytics on each camera.

To navigate to the Camera Stream selection:

- Right-click on the video stream and select "Camera Settings."
- Click on the plugin tab and select WAVE AI on the left menu panel.

Notes

• The "Camera Stream" selection becomes available only when the "Automatic Stream Selection" is disabled in the Plugin tab of the System Administration settings.

Important

• Starting from version 6 of the Media Server, if you plan to activate the plugin on an RTSP stream, you must disable the automatic stream selection, or use the Hi-res profile.

Video Streams Configuration

To navigate to Video Streams Configuration:

- Right-click on the video stream and select "Camera Settings."
- Click on the Advanced tab.
- Click on Video Streams Configuration on the left side menu panel.

Secondary Stream (recommended parameters)

- **Resolution:** 640x480
- Bitrate: 1 Mbps or higher
- FPS (Frames Per Second): 5 FPS or higher

Se Notes

- **Resolution:** A low resolution can hinder the detection of smaller targets.
- **Bitrate:** A low bitrate leads to strong compression, reducing the quality of the video feed and making it difficult to detect smaller targets.
- **FPS:** A low frame rate may cause loss of detections, while a high FPS will increase the system's computational load.

Settings

Overlay statistics

The Statistics panel can be useful for debugging, providing insights into system health and hardware utilization.

Important

Don't keep the statistics panel open. When the panel is visualized, it could prevent the Media Server from recording correctly.

In order to visualize the statistics panel, tick the "Overlay statistics" box in the System Administration Settings. Click "OK" to save the settings, and go to the "OBJECTS" tab. You may need to wait a few seconds for the panel to appear.

New Lawrent 🗙 🕂				2 ? - & ×
Donract to Another Server				🧟 🛠 🖡 🛕 💥 Subers
This creation of them. Subserv				Learch Advanced
New .				
Upen				Contraction on treatment of
Start Screen Recordina		 System Administration - Weins 	at wave client in X	Til fielent aver
International Action of the Action	2010000	fangent framme fordallen i framme	n Front facurte wayFfare TimeSon Booting Amaryon	a des se trees as
Bystum Administration	CREATER	MART A		
Local Sections		100 P20 (2)	WAYE AI	
Aurist Treet			A PERSON NEW THE WAY CARD	
Bookmark Loo			Vorum 202423	
			VOTITIR - PREMIETE VISION	
Add Device			A A AR A A A A	
Thomas and a second			Operating mode (require service restart)	2000
Abeut.			Willie Bandard -	
User Manjal			🕕 🛃 Automatic steam adection	=
Save Windows Configuration				Manufactor
100			Settings	I THE REPORT OF STREET, ST
	-		R Dentay statutica	autochan (ichiscannara (na)) (aithia)
			ALC PHACE BALER LINKS	
			Apphy Apphy Cantel	
			and shield and	

Statistics Info Includes:

- Engine version
- Plugin version
- Solution version
- NX SDK (Client / Server) Version
- Plugin run time
- Mode
- Camera input

- Al input
- Codec
- Frame rate
- Input queue
- Dropped frames
- Instance run time
- # frames processed
- Active licenses

Enable expert mode

Expert mode includes additional features for fine tuning the plugin performance.

To enable Expert mode:

- Navigate to System Administration -> Plugins -> WAVE AI
- Locate "Settings" block
- Tick the box next to "Enable expert mode"
- Navigate to Expert mode within Plugin settings

Converte la Antificia Server Constantino Constantin Constantin Constantin	Image: Section of the sectio
Boosyleider Rain Booser Executive Control Have 1 Opport Annum Statustion - Wheneye WARK Client Stat Scream Neocering Annu Boosyleider Rain Executive Client Boosyleider Rain Executive Client	Search advanced.
Hann freinin Sterner Machaeler Markel M Markel Markel Mark	Clary brie To Dennin provid (K) To Dennin
Dprov) 7 Sparent Administration's Wavered WAVE Cleant 2	The Demonstration of the Demonstration
Interfaceur Notices Annu Database Links Links Links Links Links Links Links Links Links	The beautions
Annalisi Units (1987) Units Landour 2018 Landour 2018 Landour 1970 Line Harty (1992)	
Service Adversariation Colorida	
Teen Meriogenerat. WAVE A	
Lood Ratings. Av Proge the Warrer Wolf, Will	
Autora Stars	
Repetitel Logic Strink Under Halwha Vision	
ia35 Device	
Marga Systema. Operating model (require service restant)	
And II In Inc. Inc. Statut	
User Manual	
Sou Weber Colorador	
Settings-	
Appiy Carcel	

To navigate to Expert mode:

- Ensure Expert mode is enabled in "System Administration" settings.
- Right-click on the video stream and select "Camera Settings."
- Click on the plugin tab and select WAVE AI on the left menu panel.
- Click on Expert mode on the left side menu panel.

🐨 Camera Settings - Camera 1 - Wisenet WAVE Client				?	×
General Recording Motion Dewaping mights Expert					
		Max Al resolution	Default		*
Analytics					
			Normai		*
		Movement sensitivity 🔞	Normal		*
Excluded areas					
Expert mode					
Camera analytics will work only when camera is being viewed. Enable recording to make it work all the time.					
			OK	ply Can	icel

Max AI Resolution

Max AI Resolution settings allow you to adjust the maximum resolution that the AI will process. By default, the maximum resolution is defined by the Operating mode specified in the System Administration Settings. However, you can modify this to suit specific needs.

- If you set a value higher than the camera's resolution, the plugin will automatically revert to the camera's native resolution.
- Increasing the maximum resolution can enhance detection of very small targets.

Important

Only increase the resolution if required, as it may negatively impact system performance.

Detection Sensitivity

Increasing detection sensitivity improves the ability to detect challenging targets (e.g., smaller, occluded, or affected by lens noise) but may lead to more False Positives. Change "Detection Sensitivity" settings to "High" if the system misses events involving small objects or in busy scenes.

Movement Sensitivity

Movement sensitivity controls how the system determines whether motion is occurring. Environmental factors such as rain, snow, camera noise, and light reflections, can cause false motion detection. Lowering motion sensitivity can minimize these false detections, but it increases the risk of missing fast-moving objects or objects visible for a very short time.

Section 5: Updating the Plugin

Update: Windows

- Check for new plugin versions on the official website: <u>https://hanwhavisionamerica.com/product/wisenet-wave-ai-plugin/</u>
- Download the new version. Stop the Wisenet WAVE Server and run the installer. Start the Server once the installation is complete.
- All configured settings and applied licenses will be preserved.

Update: Linux

- Check for new plugin versions on the official website: <u>https://hanwhavisionamerica.com/product/wisenet-wave-ai-plugin/</u>
- Access your terminal application. This can typically be found in your system's applications menu.
- Run the automated installation script:

- Press "Enter" to execute the command. This script will automatically detect a new version.
- All configured settings and applied licenses will be preserved

Section 6: Uninstalling the Plugin

Uninstall: Windows

- Open Settings: press Windows key + I or click the Start menu, then select Settings.
- Go to Apps: click on Installed Apps and find AI Plugin for Wisenet WAVE VMS in the list.
- Uninstall the Plugin: select AI Plugin for Wisenet WAVE VMS and click Uninstall. Confirm if prompted.
- If prompted, restart your computer to complete the process.

Done! The WAVE AI Plugin is now uninstalled.

Uninstall: Linux

- Open Terminal: Press Ctrl + Alt + T or search for Terminal in your applications menu.
- In the terminal, type the following command and press Enter:

- If prompted, enter your administrator password and press Enter.
- The system will automatically remove the plugin. Once done, close the terminal.

Done! The WAVE AI Plugin is now uninstalled.

For more information visit us at

HanwhaVisionAmerica.com

Hanwha Vision America 500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666 Toll Free : +1.877.213.1222 Direct: +1.201.325.6920 Fax: +1.201.373.0124 www.HanwhaVisionAmerica.com

© 2024 Hanwha Vision Co., Ltd. All rights reserved.

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE Under no circumstances, this document shall be reproduced, distributed or changed, partially or wholly, without formal authorization of Hanwha Vision Co., Ltd. * Wisenet is the proprietary brand of Hanwha Vision, formerly known as Hanwha Techwin.