Manuals+ — User Manuals Simplified.

i-PRO X Series Camera Extension Software

i-PRO X Series Camera Extension Software User Guide

Contents

i-PRO X Series Camera Extension Software

Introduction

This document describes how to install the AI Process Relay Application (hereinafter referred to as "the Product"), a function extension software, on the new X series cameras and the settings required before starting operation. Since this product is intended to be installed and used with a camera, please be sure to read the instruction manual of your camera as well before use. The setting screens described in this manual may differ from some of the screens depending on the camera model, i-PRO Configuration Tool (iCT: i-PRO Configuration Tool) or i-PRO Active Guard version used.

Product Overview
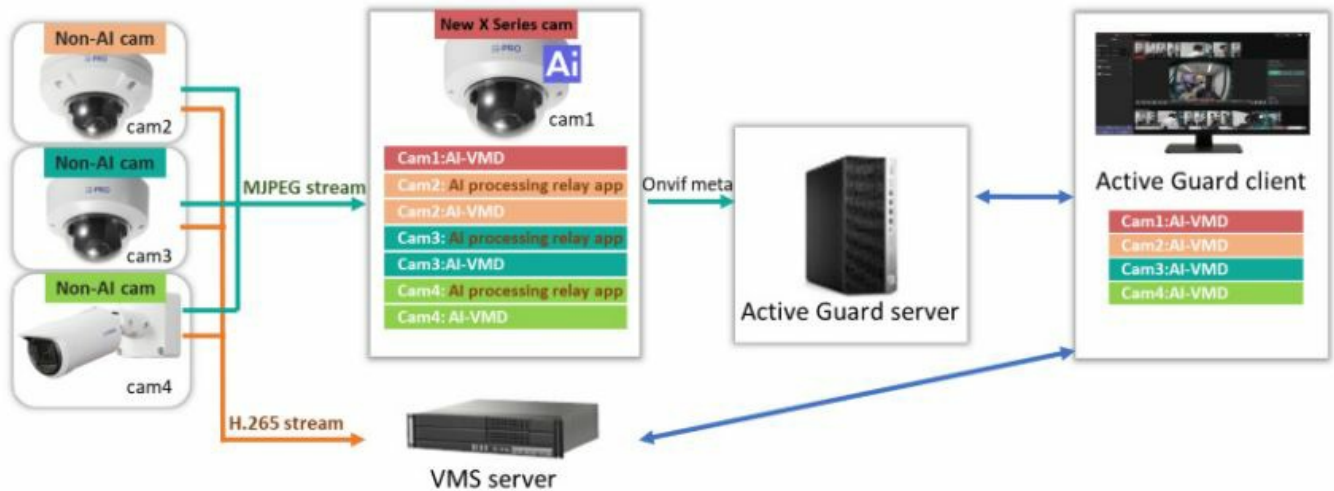
This product is software for more convenient use of AI network cameras (sold separately). By installing this product on a camera, configuring non-AI camera settings, and configuring the extension software, AI processing can be performed on video from cameras that do not have AI functions. This product is guaranteed to work with the new X series cameras. If a non-AI camera supports MJPEG data (stream) transmission via HTTP or HTTPS, it can import images to this product for AI processing. AI processing is handled by the extension software installed in the new X series camera. The extension software is required separately. This product can be used in combination with the following extension software.

- AI-VMD (AI Video Motion Detection)
- AI People detection
- AI Vehicle Detection
- AI Occupancy detection

The extension software outputs the Onvif Event Stream as AI processing results. i-PRO Active Guard is required to operate this product.

- Please refer to the following web page for information on compatible models and software versions of this product.
- Technical Information [Control number: C0103]
- Up to three non-AI cameras can be connected to a single new X-Series camera.
- The AI On-site learning applications cannot be used for non-AI camera video received using this product.

Features

This product is software for the new X series cameras that can receive MJPEG data from other cameras and perform AI processing using the function extension software; AI processing results can be used with "i-PRO Active Guard" to receive alarms and perform image search. It can also be used to add AI functions to cameras that are

already installed.

Installation conditions of the product

This product receives MJPEG data from non-AI cameras and performs AI processing using the extension software installed in the new X series cameras. Installation conditions for non-AI cameras, such as angle of view, are in accordance with the installation conditions of the respective extension software. Detection performance depends on the image quality of the non-AI camera. Please confirm the operation with the actual camera before use.

Precautions

1. This product must be used with the latest firmware for the new X series cameras.
2. When this product is installed on a new X series camera, there is a limit to the number of installations of the extension software. Please refer to Section 2.1 Confirm the operating conditions of the product for the limitation.
3. A command to acquire MJPEG data from non-AI cameras is required. The video resolution and frame rate that can be processed by this product is 1920×1080@5fps or 1280×720@5fps.
4. When this product is installed on a new X series camera, the processing of the function extension software installed on the new X series camera may stop until the settings of this product are properly configured. Once the settings of this product are completed and MJPEG data is received from the non-AI camera, the extension software will operate correctly.
5. Reboot the new X series camera after uninstalling this product. Rebooting the new X series camera will allow the extension software installed on the new X series camera to operate correctly.
6. Set the "Image capture mode" to "16:9 mode(30fps mode)" or "16:9 mode(25fps mode)".
7. For image rotation of the new X series cameras and non-AI cameras, set "0 degrees" or "180 degrees".
8. It is recommended that the "Alarm" > "Camera action on alarm" items in the camera's setup screen be set to Off. Alarms from Camera 2 to Camera 4 will operate as alarms for Camera 1.

Preparation

The flow up to the operation is as follows. This chapter describes 1), 2) and 3).

1. Confirm the operating conditions of the product
    - Confirm the operating conditions of the product
2. Install this product and extension software
    - Install this product and extension software
3. Configure settings for non-AI cameras
    - 2.3 Configure settings for non-AI cameras
4. Start operation

Confirm the operating conditions of the product

When using this product, there are the following limitations on the number of extension software that can run simultaneously.
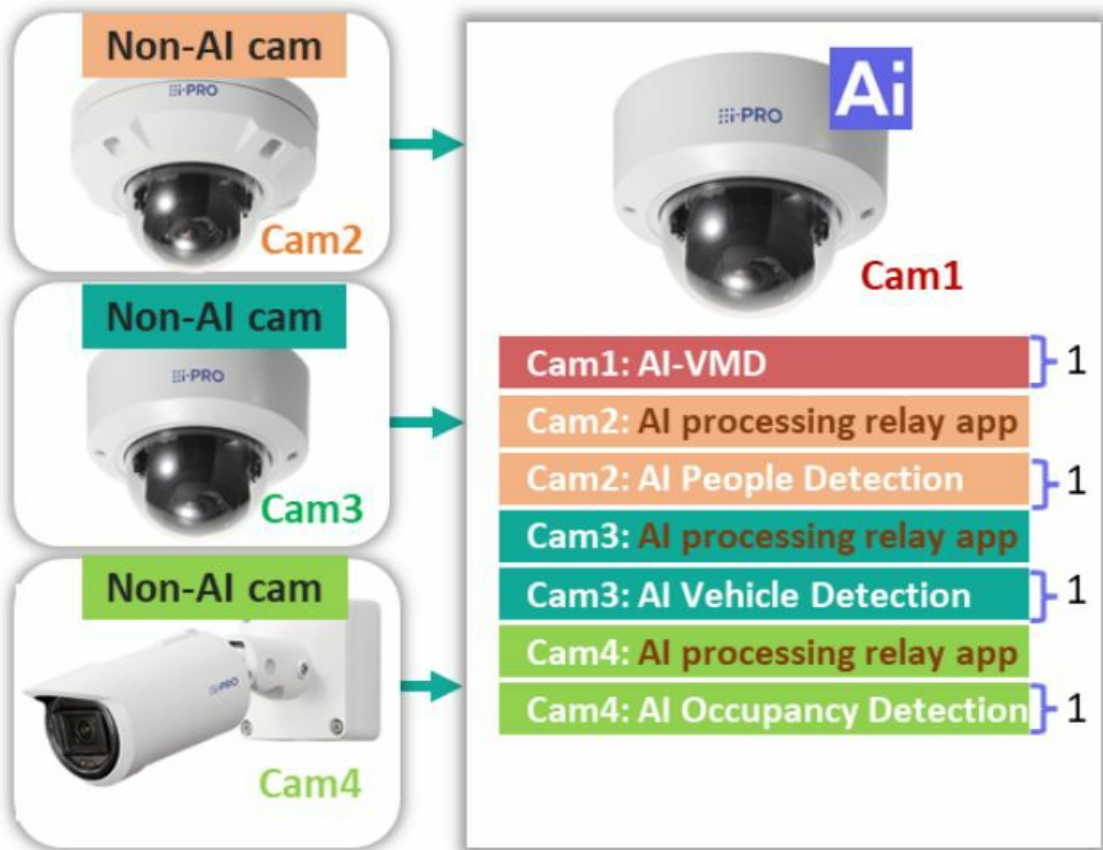
- When adding non-AI cameras, pay attention to the number of extension software installed. To ensure that the maximum number of simultaneous operations of the extension software is not exceeded, uninstall the extension software before adding non-AI cameras.

Conditions for using three non-AI cameras

Operating conditions when three non-AI cameras are used are shown below. The maximum number of extension software that can run simultaneously for each camera is one.

Confirm the operating conditions of the product

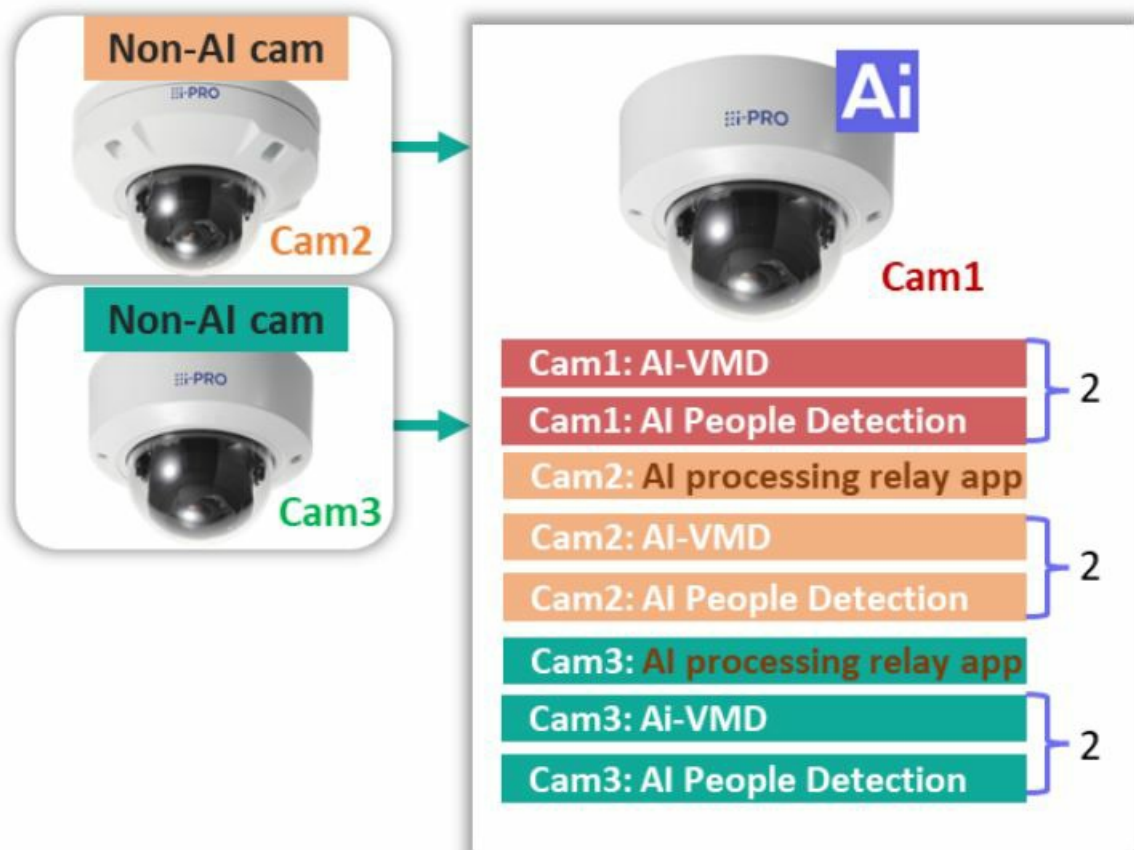|	Camera Type	Maximum number of extension software running at the same time	Extension software
Camera1	New X Series Camera	1	– AI-VMD – AI People detection – AI Vehicle detection – AI Occupancy detection
Camera2	Non-AI camera	1	
Camera3	Non-AI camera	1	
Camera4	Non-AI camera	1	

Conditions for using two non-AI cameras

Operating conditions when two non-AI cameras are used are shown below. The maximum number of extension software that can run simultaneously for each camera is two.

	Camera Type	Maximum number of extension software running at the same time	Extension software
Camera1	New X Series Camera	2 (2MP, 5MP model) 1 (6MP, 8MP model)	– AI-VMD – AI People detection
Camera2	Non-AI camera	2	– AI Vehicle detection
Camera3	Non-AI camera	2	– AI Occupancy detection

## Example configuration of the new 5MP X-Series camera

Conditions for using a single non-AI camera

Operating conditions when using a single non-AI camera are shown below. The maximum number of extension software that can run simultaneously for each camera is 3.

	Camera Type	Maximum number of extension software running at the same time	Extension software
Camera1	New X Series Camera	3 (2MP, 5MP model) 2 (6MP, 8MP model)	– AI-VMD – AI People detection – AI Vehicle detection – AI Occupancy detection
Camera2	Non-AI camera	3	

Example configuration of the new 5MP X-Series camera
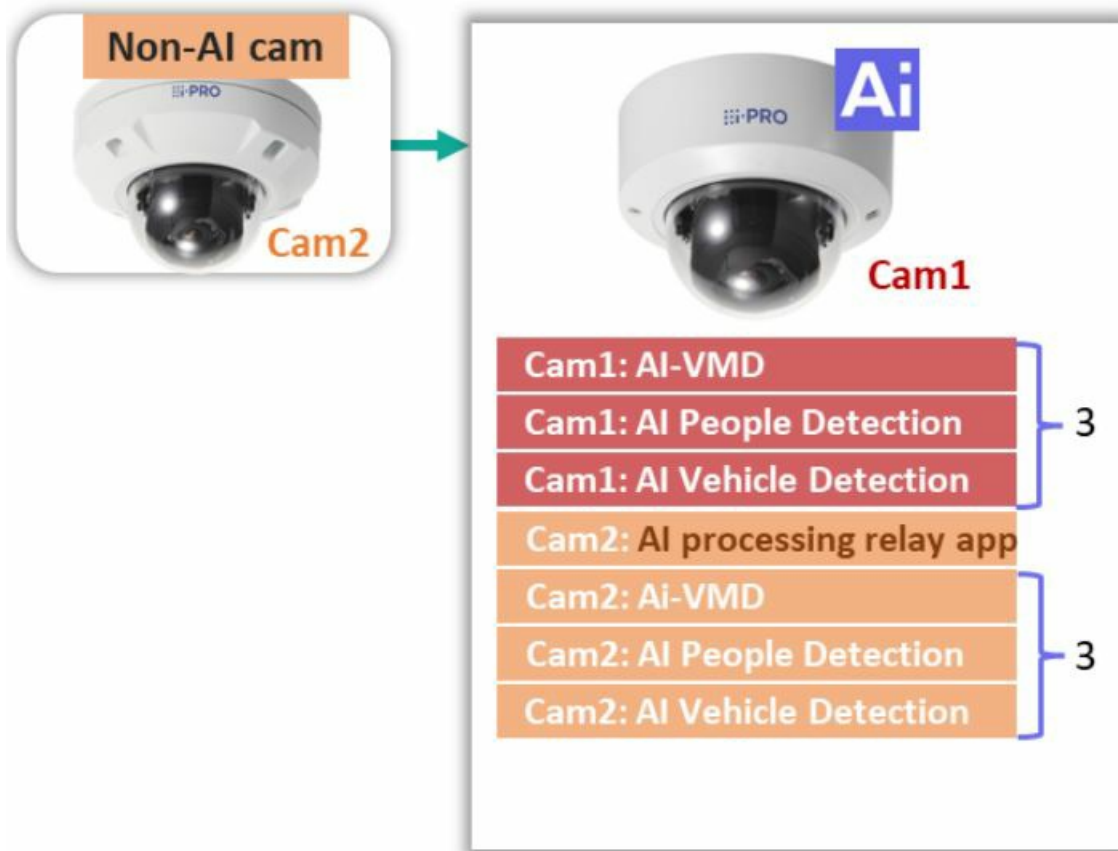
- The new X series cameras can also be used with software other than the software that is linked to this product. Please refer to the website below for software combinations that can be used at the same time.
- Technical Information [Control number: C0103]

Install this product and extension software

Uninstall pre-installed extension software

1. Open the browser settings screen of the new X series camera and select "Setup" > "Detailed setting" > "Ext. software" > "Software mng.".

2. Click "Uninstall" to uninstall the software. Repeat this procedure to uninstall each software.

AI-VMD	**Uninstall**
Software version	
Status	Operable
Setup menu	**Setup >>**

Download this product

Access the product's download site, download the "AI Processing Relay Application", and unzip the zip file. The zip file contains the following software.

Extension software for video processing of the new X-Series cameras

- XAE200_vXXXX.ext
- AIPeopleDetection_vXXXX.ext
- AIVehicleDetection_vXXXX.ext
- XAE207_vXXXX.ext

AI Processing relay application

- AIProcessingRelay-Cam2_vXXX.ext
- AIProcessingRelay-Cam3_vXXX.ext
- AIProcessingRelay-Cam4_vXXX.ext

Extension software for non-AI camera video processing

Software to work with AIProcessingRelay-Cam2_vXXX.ext

- XAE200-Cam2_vXXXX.ext
- AIPeopleDetection-Cam2_vXXXX.ext
- AIVehicleDetection-Cam2_vXXXX.ext
- XAE207-Cam2_vXXXX.ext

Software to work with AIProcessingRelay-Cam3_vXXX.ext

- XAE200-Cam3_vXXXX.ext
- AIPeopleDetection-Cam3_vXXXX.ext
- AIVehicleDetection-Cam3_vXXXX.ext
- XAE207-Cam3_vXXXX.ext

Software to work with AIProcessingRelay-Cam4_vXXX.ext

- XAE200-Cam4_vXXXX.ext
- AIPeopleDetection-Cam4_vXXXX.ext

- AIVehicleDetection-Cam4_vXXXX.ext
- XAE207-Cam4_vXXXX.ext
    - For the download site of this product, please refer to the following:
        - AI Processing Relay
    - XAE200_vXXX.ext, XAE200-Cam2_vXXX.ext,
        - XAE200-Cam3_vXXX.ext and XAE200-Cam4_vXXX.ext are files of "AI-VMD".
    - XAE207_vXXX.ext, XAE207-Cam2_vXXX.ext,
        - XAE207-Cam3_vXXX.ext and XAE207-Cam4_vXXX.ext are files of "AI Occupancy Detection".

Do not use spaces or multi-byte characters in the destination directory name.

In the following sections, we will explain the procedure for installing three non-AI cameras and the extension software shown in Table 1. Installation Example, using the configuration shown in the section "Conditions for using three non-AI cameras" as an example.

	Camera type	AI Processing relay application file name	Extension software file name
Camera 1	New X series camera	—	XAE200_vXXX.ext
Camera 2	Non-AI camera	AIProcessingRelay-Cam2_vXXX.ext	AIPeopleDetection-Cam2_vXXX.ext
Camera 3	Non-AI camera	AIProcessingRelay-Cam3_vXXX.ext	AIVehicleDetection-Cam3_vXXX.ext
Camera 4	Non-AI camera	AIProcessingRelay-Cam4_vXXX.ext	XAE207-Cam4_vXXX.ext

When using the AI processing relay application, please use the files included in the zip file of this product, which also contains the extension software for the new X series cameras.

- Refer to 4.1.3 Combination of this product and compatible software for the combination of the Product and extension software files.
- There are no restrictions on the order of software installation. Install all of the extension software files you will be using.

Install AI processing relay application

1. Select "Setup" > "Detailed setting" > "Ext. software" > "Software mng." on the new X series camera.
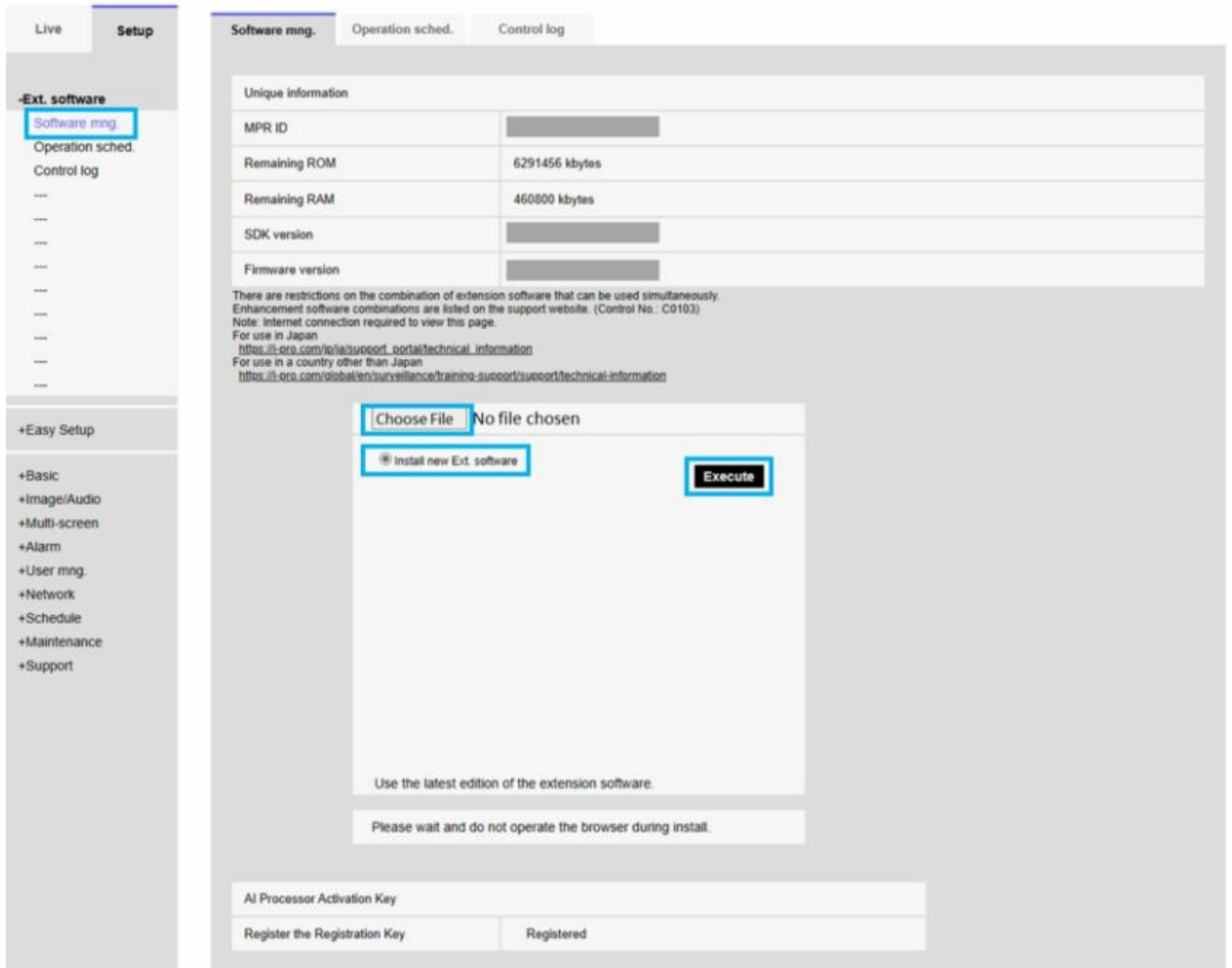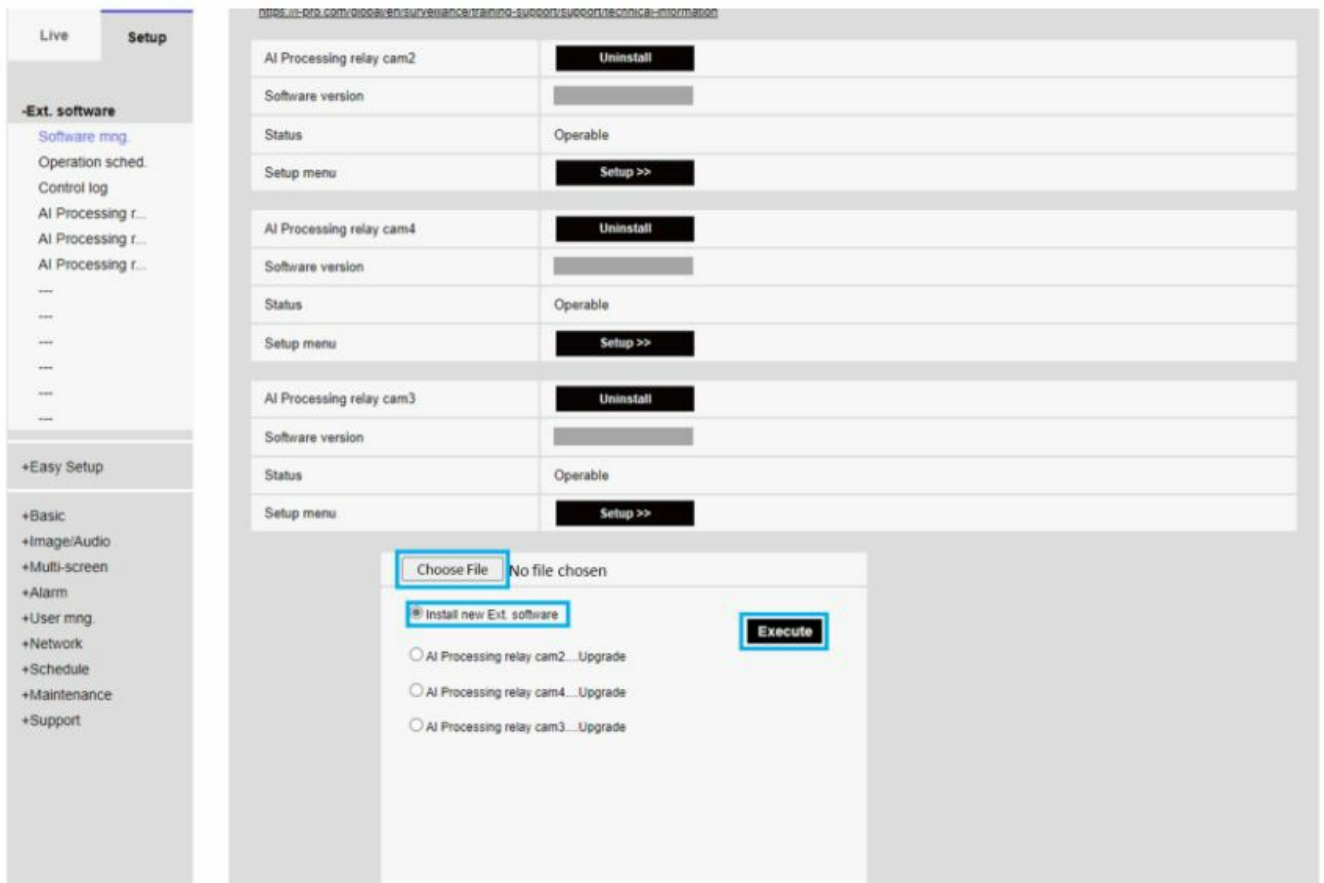

2. Click the "Choose File" button and select the downloaded "AIProcessingRelay-Cam2_vXXX. ext".
3. Confirm that "Install new Ext. software" is selected and click "Execute". Installation of the software starts. When the installation is complete, AI Processing Relay Cam2 is added to the Extension software list and the Ext. software screen.
   - Do not turn off the camera during installation.
   - Do not perform any operation during installation until the installation is completed.
4. Follow the same procedure to install AIProcessingRelay-Cam3_vXXX.ext and AIProcessingRelay-Cam4_vXXX.ext.

Install Extension software

Install all of the extension software listed in Table 1. Installation Example. There is no installation order. The order in which the extension software is displayed may differ from that shown in the figure below.

1. Select "Setup" > "Detailed setting" > "Ext. software" > "Software mng." on the new X series camera.

2. Click the "Choose File" button and select the downloaded "XAE200_vXXX.ext".

3. Confirm that "Install new Ext. software" is selected and click "Execute". Installation of the software starts. When the installation is complete, "AI-VMD" is added to the Extension software list and the Ext. software screen.

4. Follow the same procedure to install "AIPeopleDetection-Cam2_vXXX.ext", "AIVehicleDetection-Cam3_vXXX.ext" and "AIOccupancyDetection-Cam4_vXXX.ext". When the installation is complete, "AI People detection Cam2", "AI Vihecle detection Cam3" and "AI Occupancy detection Cam4" are added to the Extension software list and the Ext. software screen.

   - Do not turn off the camera during installation.
   - Do not perform any operation during installation until the installation is completed.
   - Extension software is included in the zip file from which you downloaded this product; please use the software in the zip file.
   - Please unzip the zip file and use it.
   - "Detailed setting" > "AI-VMD Information addition" in the AI-VMD application is set to Off.

Configure settings for non-AI cameras

Configure the settings for the non-AI camera to be linked to this product. Please refer to the manual of the camera for the setting method. Set the following items.

- Set the stream to output MJPEG data.
- Set the resolution of the MJPEG data to 1920×1080 or 1280×720.
- Set the frame rate of the MJPEG data to 5fps
- Set the image rotation to "0 degrees" or "180 degrees".

Basic settings

Configure this product

This section describes the procedure for setting up an AI processing relay application from the state of 2 Preparation.

1. After installing the "AI Processing Relay Camera2", an entry for "AI Processing Relay Cam2" will be added to the "Ext. software" tab of the "Setup" > "Detailed setting" page of the new X series camera. The order in which the extension software is displayed may differ from that shown in the figure below.
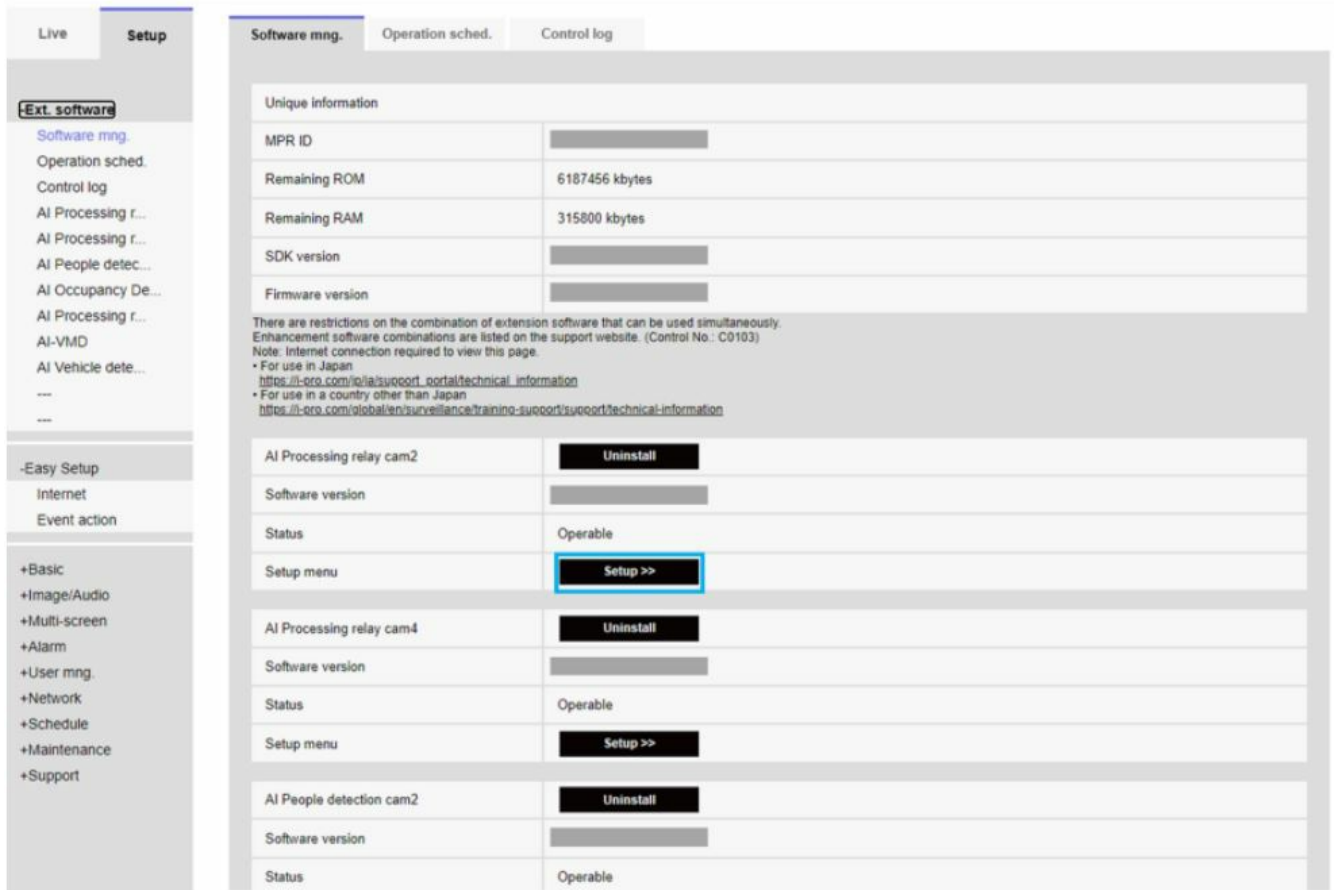
2. Click the "Setup" button to open the setting screen.

Non-AI camera information Cam2	
Non-AI camera user name	xxxxxx
Non-AI camera password	••••••••
Protocol	○ HTTPS ⦿ HTTP
Non-AI camera IP Address	192.168.0.11
Non-AI camera port number	80
HTTP JPEG stream URL	cgi-bin/mjpang?stream=1&framerate=5
Multi-directional cameras No. [i]	1

When you press the "Set" button, you may be asked to authenticate. When an alert is displayed, enter the "Non-AI camera user name" and "Non-AI camera password" for the Non-AI camera and sign in.

Set

Result	
HTTP JPEG stream full URL	-
Received Image	No image
Resolution	-
Framerate	-

3. Enter information for a non-AI camera.

- **Non-AI camera username**

  Enter the username that has been set for the non-AI camera.

  - Default setting: blank

- **Non-AI camera password**

  Enter the camera password that has been set for the non-AI camera. Default setting: blank

- **Protocol**

  Select the protocol used to access the non-AI camera from this product. Default setting: HTTP

- **Non-AI camera IP address**

  Enter the IP address assigned to the non-AI camera.

  - Default setting: blank

- **Non-AI camera port number**

  Enter the port number of the protocol to be used for the non-AI camera. Default setting: blank

- **HTTP JPEG stream URL**

  Enter the command to receive the MJPEG data from the non-AI camera. Enter the command after the IP address of the camera.

- Do not enter a leading "/". The leading "/" will be automatically completed by this product. In the case of a multi-sensor camera, please include the channel specification in the command.

  - Default setting: blank
  - **Example:** i-PRO camera (single-lens camera)
  - CGI-bin/mjpeg?stream=1&framerate=5

- **Multi-directional cameras No.**

  If the non-AI camera is a multi-sensor camera, enter the camera number of the multi-sensor camera, specified as a number from 1~4. If the non-AI camera is a monocular camera, enter

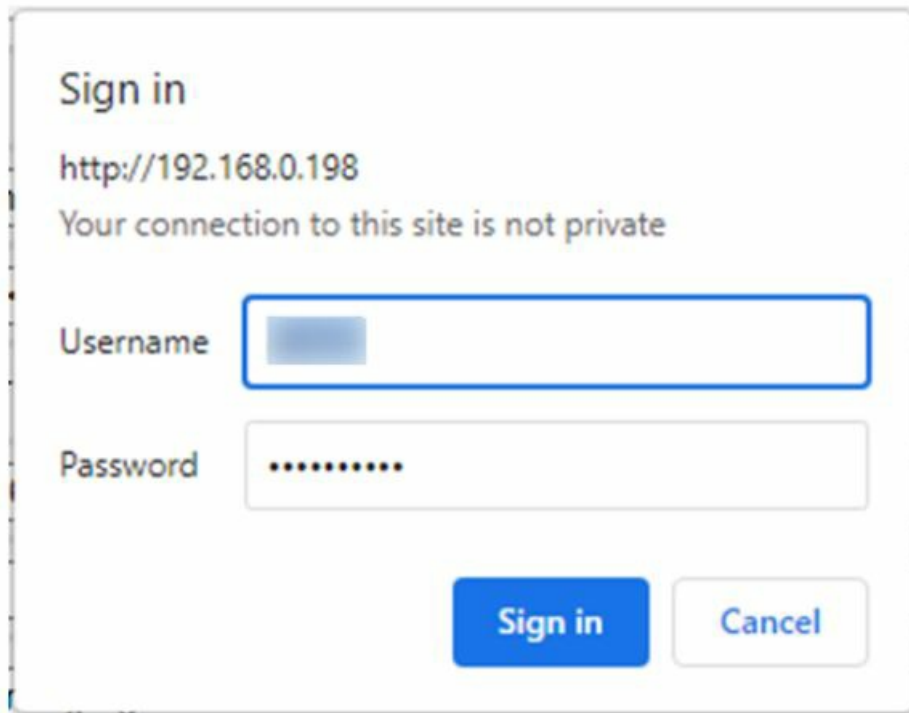- The information entered in this field is used when connecting to the i-PRO Active Guard.

  Default setting: 1
- Enter the information for a non-AI camera, not the information for the new X series cameras, in the settings section of this product.

4. Press the "Set" button
5. Enter username and password

   An alert will appear asking you to enter a username and password. Enter the username and password for a non-AI camera and press the "Sign in" button.

Sign in

http://192.168.0.198

Your connection to this site is not private

Username

Password ••••••••••

Sign in   Cancel

6. Confirm that the non-AI camera video is displayed in Result > Received Image. The resolution and frame rate of the video actually received will be displayed in the "Resolution" and "Framerate" fields. resolution and frame rate of the video actually received will be displayed in the "Resolution" and "Framerate" fields.

Non-AI camera information Cam2	
Non-AI camera user name	xxxxxx
Non-AI camera password	••••••••••••••
Protocol	○ HTTPS ● HTTP
Non-AI camera IP Address	192.168.0.11
Non-AI camera port number	80
HTTP JPEG stream URL	cgi-bin/mjpang?stream=1&framerate=5
Multi-directional cameras No. ℹ	1

When you press the "Set" button, you may be asked to authenticate. When an alert is displayed, enter the "Non-AI camera user name" and "Non-AI camera password" for the Non-AI camera and sign in.

Set

Result	
HTTP JPEG stream full URL	http://192.168.0.11:80/cgi-bin/mjpang?stream=1&framerate=5
Received Image	
Resolution	1920x1080
Framerate	5.0

Configure extension software that work with this product

Please refer to the manual of each extension software to set up the software. An alert may appear when opening the extension software screen. Enter the username and password of the camera to be linked to the alert. The live image of the linked camera will be displayed on the configuration screen of the extension software.

- The username and password for the alert must be the username and password of the camera to be linked, not the username and password of the new X series camera.
- AI-VMD Mode selection should be set to "Normal angle mode".

- iCT does not display the live image of the linked camera. Please set the area settings, etc. from the link displayed in iCT.
- When the extension software is used with an AI processing relay application, the frame information of the detection results will not be displayed on the camera's live screen or in the iCT.
- The schedule settings for Camera 1 to Camera 4 of the AI Processing relay application and the linked extension software should always be set to On.
- It is recommended that the "Alarm" > "Camera action on alarm" setting item in the new X series cameras be set to Off.

Configure i-PRO Active Guard

Refer to the i-PRO Active Guard manual for i-PRO Active Guard settings. Below we describe how to register the extension software that works with the AI processing relay application to the
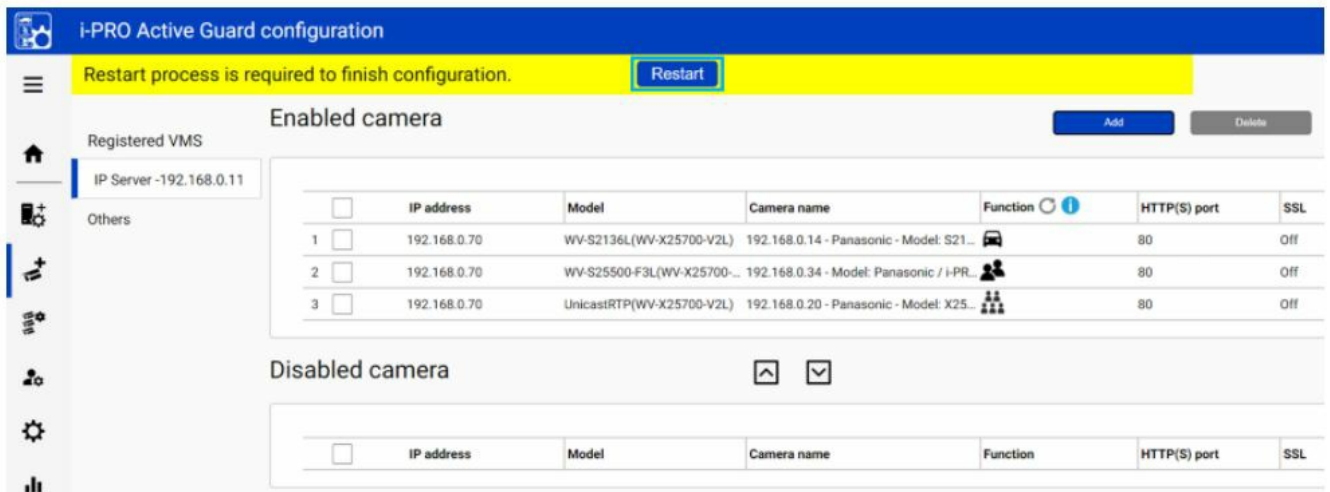
- i-PRO Active Guard.

1. Click "Camera Registration".
2. Select "Add" – "AI Processing Relay App".

3. Enter the IP address and authentication information for the new X series camera, and click "Check". Confirm that the non-AI camera appears in the list and click "Save".

4. Click "Restart" to restart the i-PRO Active Guard server.

5. The following settings must be made in advance.

- 3.1 Configure this product
- Register non-AI cameras to video surveillance software

Configure i-PRO Active Guard for VMS to receive AI-**VMD and AI Occupancy Detection alarms**

If you use Genetec / Milestone VMS, you need to configure the following settings to notify alarms. i-PRO Active Guard will notify Genetec / Milestone VMS of the AI-VMD and AI Occupancy Detection alarms by making the following settings. If you use Video Insight VMS, you do not need the following settings.

- Open i-PRO Active Guard's VMS server screen and press the "Add" button.
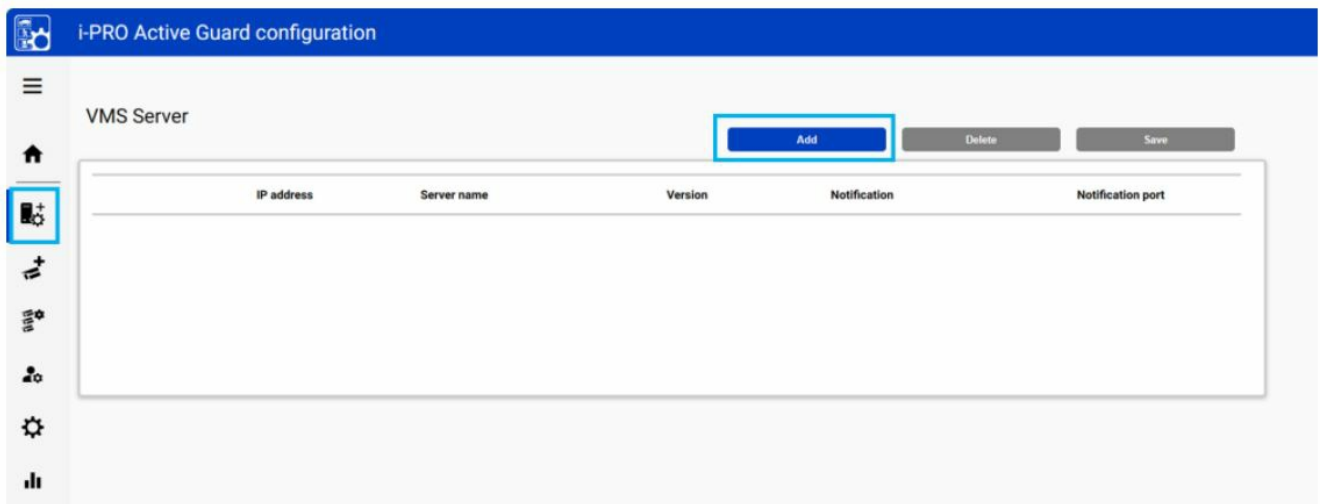
- Press the "Test" button after entering the VMS information. When "Success" is displayed, press the "Save" button.

- **Type**
  - Select Genetec Security Center or Milestone XProtect.
- **IP address**
  - Enter the IP address of Genetec Security Center or Milestone XProtect.
- **WEB API Port**
  - Enter the port number of the Genetec Security Center or Milestone XProtect.
- **Notification Port (Milestone XProtect only)**
  - Enter the Milestone XProtect notification port number.
- **SSL**
  - Select On to enable SSL connection or Off to disable SSL connection.
- **User Name**
  - Enter the User Name for Genetec Security Center or Milestone XProtect.
- **Password**
  - Enter your Genetec Security Center or Milestone XProtect password.

1. The configured VMS appears on the VMS Server screen.
2. Check the Alarm of AI Processing relay app in the Notification column. i-PRO Active Guard will notify VMS of AI-VMD and AI Occupancy Detection alarms.
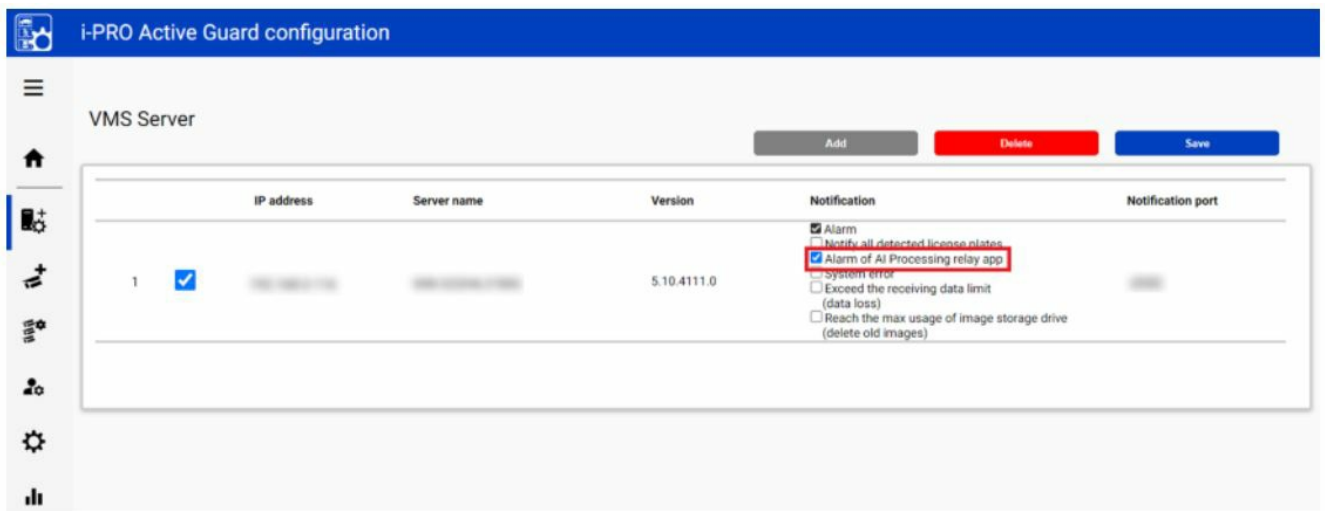
Other

Specifications

Required environment and PC specifications

We recommend using a display capable of 1920×1080 resolution as the environment for setting up this product.Please read the manuals for the new X series cameras and non-AI cameras for the specifications of the PC used for camera setup.

About this product

Items	Contents
Input	Non-AI camera video: max. 3 channels
Input format from non-AI cameras	MJPEG 1920×1080@5fps or MJPEG 1280×720@5fps
Non-AI cameras	– i-PRO H.265 camera – Other Company Camera
Supported systems	Video Insight / Genetec / Milestone / WV-ASM300UX with i-PRO Active Guard

Number of non-AI cameras	Number of workable app for new X series camera (*)	AI-VMD	AI People Detection	AI Vehicle Detection	AI Occupancy Detection
3	1 (1)	Up to 1 app per each non-AI camera			
2	2 (1)	Up to 2 app per each non-AI camera			
1	3 (2)	Up to 3 app per each non-AI camera			

(*): Figures in parentheses indicate the number of extension software when using the 6MP model or 8MP model of the new X series camera.

- Please refer to the following web page for information on compatible models and software versions of this product.
    - Technical Information [Control number: C0103]
- For "Video Insight with i-PRO Active Guard", AI Occupancy Detection alarms are not supported because they do not go through i-PRO Active Guard.
  For "ASM300 with i-PRO Active Guard" supports only i-PRO cameras.

Supported functions with AI Processing Relay for each system

Video Insight with i-PRO Active Guard

	AI-VMD	AI People Detection	AI Vehicle Detection	AI Occupancy Detection
Alarm Management	✓	✓	✓	N/A
Similarity Search	–	✓	✓	–
Statistics dashboard	✓	✓	✓	✓

Genetec / Milestone with i-PRO Active Guard

	AI-VMD	AI People Detection	AI Vehicle Detection	AI Occupancy Detection
Alarm Management	✓	✓	✓	✓
Similarity Search	–	✓	✓	–
Statistics dashboard	✓	✓	✓	✓

WV-ASM300 with i-PRO Active Guard (only i-PRO Camera is supportted)

	AI-VMD	AI People Detection	AI Vehicle Detection	AI Occupancy Detection
Alarm Management	✓	✓	✓	✓
Similarity Search	–	✓	✓	–
Statistics dashboard	✓	✓	✓	✓

Combination of this product and compatible software

This product must be used in combination with the corresponding AI software.

Camera	AI Processing Relay software file name	Supported extension software file name
New X Series camera: camera1		XAE200_vXXX.ext AIPeopleDetection_vXXX.ext AIVehicleDetection_vXXX.ext XAE207_vXXX.ext Other extension software for the new X series cameras
Non-AI camera: camera2	AIProcessingRelay-Cam2_ vXXX.ext	XAE200-Cam2_vXXX.ext AIPeople Detection-Cam2_ vXXX.ext AIVehicleDetection-Cam2_ vXXX.ext XAE207-Cam2_vXXX.ext
Non-AI camera: camera3	AIProcessingRelay-Cam3_ vXXX.ext	XAE200-Cam3_vXXX.ext AIPeople Detection-Cam3_ vXXX.ext AIVehicleDetection-Cam3_ vXXX.ext XAE207-Cam3_vXXX.ext
Non-AI camera: camera4	AIProcessingRelay-Cam4_ vXXX.ext	XAE200-Cam4_vXXX.ext AIPeople Detection-Cam4_ vXXX.ext AIVehicleDetection-Cam4_ vXXX.ext XAE207-Cam4_vXXX.ext

Camera to install this product

The camera this product works with is the new X series camera. Please install and use this product on the new X series cameras.

Non-AI cameras

Non-AI cameras must support MJPEG 1920×1080@5fps or MJPEG 1280×720@5fps output. In addition, a command to receive MJPEG data is required. Examples of MJPEG commands from various companies are

shown below. The following commands are not guaranteed to work with all cameras. Please check the operation of your camera before use.

Manufacturer	MJPEG command example (Http Jpeg stream URL)	Full URL (Http jpeg stream full URL)	Camera setting
i-PRO	cgi-bin/mjpeg? stream=1&framerate=5	http://<camera IP> /cgi-bin/mjpeg? stream=1&framerate=5 or https://<camera IP> /cgi-bin/mjpeg? stream=1&framerate=5	Open the Image/Audio > Image settings screen of the i-PRO camera and make the following settings: – Refresh interval (JPEG): 5fps – JPEG(1) > Image capture size: 1920×1080 or 1280×720
Advidia	video/mjpeg/stream1	http://<camera IP> /video/mjpeg/stream1	This command is for an advidia camera with stream1 set to MJPEG.The Advidia camera settings should be set to "No Authentication" and the connection from AI Processing Relay should be HTTP. Example: Setup > Security > NetworkSecurity > Authentication > HTTP Authentication = None
AXIS	axis-cgi/mjpg/video.cgi? resolution=1920×1080&fps=5	http://<camera IP> /axis-cgi/mjpg/video.cgi? resolution=1920×1080&fps=5 or https://<camera IP> /axis-cgi/mjpg/video.cgi? resolution=1920×1080&fps=5	

Manufacturer	MJPEG command example (Http Jpeg stream URL)	Full URL (Http jpeg stream full URL)	Camera setting
Hanwha	stw-cgi/video.cgi? msubmenu=stream&action= view&Profile=1&CodecType =MJPEG&Resolution=1920 x1080&FrameRate=5	http://<camera IP> /stw-cgi/video.cgi? msubmenu= stream&action= view&Profile=1 &CodecType =MJPEG&Resolution=1920 x1080&FrameRate=5 or https://<camera IP> /stw-cgi/video.cgi? msubmenu= stream&action= view&Profile=1 &CodecType =MJPEG&Resolution=1920 x1080&FrameRate=5	This command is used when MJPEG is set as Profile 1 on a Hanwha camera.
VIVOTEK	video1s1.mjpg	http://<camera IP> /video1s1.mjpg or https://<camera IP> /video1s1.mjpg	

Trademarks and Registered Commercial Code

- Internet Explorer and Microsoft Edge are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
- Google Chrome is a trademark of Google LLC.
- Firefox is a trademark of the Mozilla Foundation in the United States and other countries.
- ONVIF is a trademark of ONVIF Inc.

Open Source Software

This product uses the following open source software. See "Open Source Software" for the corresponding license statement.

Software name	License Name
libjpeg- turbo	The IJG (Independent JPEG Group) License, which is listed in README.ijg The Modified 3-clause BSD License The zlib License

Open Source Software

libjpeg-turbo Licenses libjpeg-turbo is covered by three compatible BSD-style open source licenses: The IJG (Independent JPEG Group) License, which is listed in README.ijg This license applies to the libjpeg API library and associated programs (any code inherited from libjpeg, and any modifications to that code.) The Modified (3-clause) BSD License, which is listed below This license covers the TurboJPEG API library and associated programs, as well as the build system. The zlib License This license is a subset of the other two, and it covers the libjpeg-turbo SIMD extensions. The Modified (3-clause) BSD License Copyright (C)2009-2023 D. R. Commander. All Rights Reserved. Copyright (C)2015 Viktor Szathmáry. All Rights Reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

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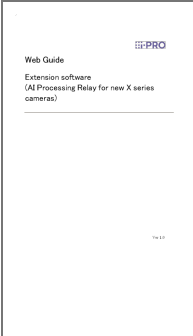
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Documents / Resources

i-PRO Web Guide Extension software (AI Processing Relay for new X series cameras)	**i-PRO X Series Camera Extension Software** [pdf] User Guide X Series Camera Extension Software, X Series, Camera Extension Software, Extension Software, Software

References

- **libjpeg-turbo/README.ijg at main · libjpeg-turbo/libjpeg-turbo · GitHub**
- **Technical Information | i-PRO Products**
- **AI Processing Relay | i-PRO Products**
- **The zlib/libpng License – Open Source Initiative**
- **User Manual**