

White Paper

# Device Manager

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# 1. Overview

Hanwha Vision's Device Manager is a convenient and practical solution that streamlines the management of video surveillance devices, empowering users to control them with comprehensive management and monitoring capabilities for a wide range of equipment.

Through Device Manager, users can view all connected devices at a glance through a centralized interface, allowing real-time monitoring of device status, operational status, sensor data, and more. Moreover, users can efficiently configure basic functionalities for multiple devices connected to the network all at once. They can effortlessly check the firmware version of each device and conduct remote updates to ensure they are running on the latest version. In addition, the solution facilitates security management by supporting features for certificate registration and management.

Device Manager offers the following features:

- · Discover devices installed on the same network automatically.
- · Categorize and manage devices by product groups.
- · Register devices manually if the device is not discovered automatically.
- · Manage devices by projects based on their intended use, with the option to set passwords for each project to enhance security.
- · Configure basic functionalities for multiple devices discovered on the same network.
- · Check and update firmware versions for registered devices.
- · Manage credentials/certificates for registered devices.
- · Import/export configurations for registered devices
- · View system logs for registered devices.

Hanwha Vision's Device Manager combines a user-friendly interface with powerful functionalities to efficiently support users in managing equipment. This white paper explains how to configure and use Hanwha Vision's Device Manager. For more information, please refer to the Device Manager User Manual.

# 2. System Requirements

To install and use Device Manager, the following environment is required:

- Operating System: Windows 7, 10, 11 (64-bit)
- Application: Microsoft .NET Framework 4.7.2 Client Profile,

Microsoft Visual C++ 2010 Redistributable Package (x86)

(Included in the Device Manager installation package.)

- CPU: Intel CPU i5 8<sup>th</sup> generation or higher
- Graphics: Video graphics card
- RAM: DDR4 8G or higher
- Resolution: 1366x768 (Scaling options are not officially supported.)
- Network Port
  - IP/TCP Based

HTTP: 80

**HTTPS: 443** 

RTSP: 554

- UDP Based

Discovery, IP setting, Initial PW: 7701, 7711

#### Note

System requirements may vary when using WiseDetector from the Device Manager. (For example, Microsoft Visual C++ 2015~2022 versions are required when using WiseDetector) The Device Manager sends camera information discovered on the network to WiseDetector, allowing the camera's live video feed to be connected. With WiseDetector, users can generate training data from video footage collected from the connected cameras and send the training data to designated cameras for object detection. WiseDetector is available only on cameras compatible with WiseDetector (such as P Al Series). For more information, please refer to the online help documentation provided by Device Manager.

# 3. Installation

### 3.1. Download and Installation Guide

#### 3.1.1. Download Path

You can download the Wisenet Device Manager installation program from the Hanwha Vision website. Visit the Hanwha Vision website (https://www.hanwhavision.com) and click on [Support] > [Online Tool] > [PC Installation Tool] > [Wisenet Device Manager] > [Download].

Alternatively, you can download the installation program from the following links.

- English: https://www.hanwhavision.com/en/support/online-tool
- Korean: https://www.hanwhavision.com/ko/support/online-tool

#### 3.1.2. Installation Guide

- 1) Double-click the downloaded Wisenet Device Manager installation program.
- 2) From the [Installer Language] window, select the desired language. (Choose either English or Korean.)
- 3) From the [Wisenet Device Manager Setup] window, review and accept the terms of the license agreement, choose the destination folder, and press [Install] to proceed with the installation.
- 4) After the installation is complete, click [Finish] and close the [Wisenet Device Manager Setup] window. If you put a checkmark on the [Run Wisenet Device Manager] checkbox before pressing the [Finish] button, the program will launch immediately upon closing the window.

### 3.1.3. Run Device Manager

- 1) Run Device Manager installed on your PC.
- 2) You can create a new project or select an existing one.
  - New Project: When the [New Project] window appears, set the project name and path.
  - Add Project: Go to the project folder path where you want to add a project, then add the project file (\*.xml) to include it in the project list.
  - Select Project: Choose the project you want to run from the project list, then click [Open].

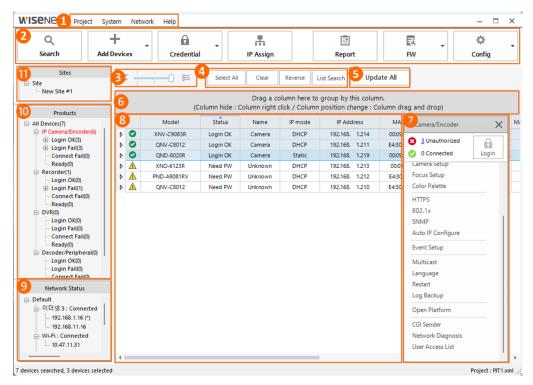
#### Note

If you select [Auto-run the last imported project], the next time you launch Device Manager, the [Open Project] window will not appear, and the previously loaded project will run automatically.

# 4. User Guide

### 4.1. Screen Layout

Shown below is the Device Manager screen layout.



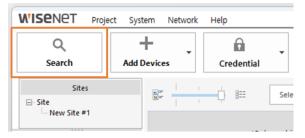
Category		Description
1	Menu Bar	Access to functions to interact with the program.
2	Toolbar	Device control settings.
3	Layout	Choose the layout of the registered device list.
	Selection Bar	(From left to right: SnapShot view/Show all information/Display profile by
		channel)
4	Device	Select registered devices.
	Selection	
	Tool	
(5)	Update All	Update the status of all registered devices.

6	Group	Group the list of devices and display.
	Device List	
7	Device Setup	Configure the functions of the selected device.
	Menu	
8	Device List	Display the list of registered devices.
9	Network	Display the PC's current network status and IP address.
	Status	
10	Products	Classify and display searched devices by product category.
(11)	Sites	Organize and manage devices grouped by sites.

#### 4.2. Search Camera

Search for Hanwha Vision devices that are connected to the same network.

1) Click [Search] in the toolbar to search for devices.



2) After the search is complete, a list of devices connected to the network will be displayed.

#### Note

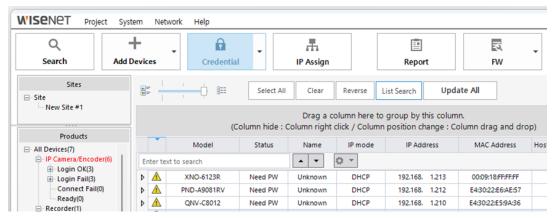
The device search time can be adjusted from [System]>[Device Search Time Setting]. (The search time duration is set to 5 seconds by default. The search time duration can be set up to 60 seconds in increments of 5 seconds.) NVR devices may not be found due to IP conflicts. In this case, check the network settings of the NVR device. Refer to the product manual for more information. If the device is not found, check the connection status of the router or hub connected to the device. If there are two or more routers connected, it is recommended to set one router to hub mode to prevent IP conflicts.

#### 4.3. Camera Device List

### 4.3.1. Search and Configure Device List

You can search for the desired device within the device list.

1) Click [List Search] or press Ctrl + F to open the search bar.



- 2) Enter text to search in the search bar.
- 3) Click the arrow ( next to the search bar to quickly search for items that contain the entered value.
- 4) Click the search options icon ( ) to configure search options.
- 5) You can choose to show or hide specific columns in the device list.
- Right-click on any column.
- Check the checkbox for the columns you want to display in the device list.

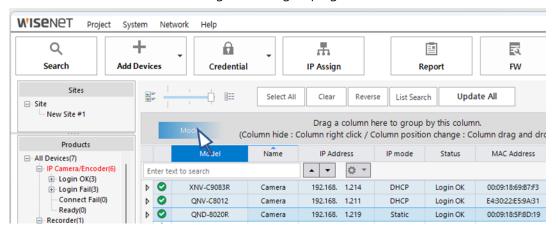


To change the column order, click and drag the desired column to the desired position while holding the mouse.

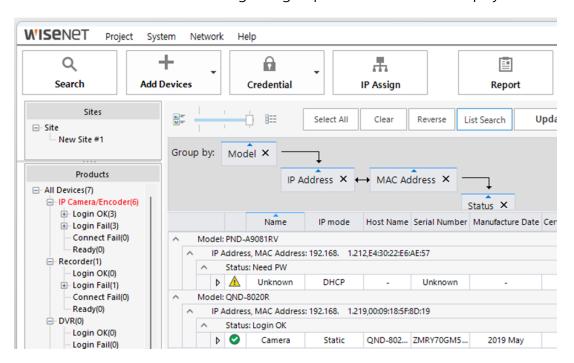
### 4.3.2. Group Device List

You can group the device list into desired groups for display.

1) Select the desired column and drag it to the grouping area.



2) The device list based on the configured groups and levels will be displayed.



### 4.4. Login and IP Configuration

The Device Manager uses SUNAPI (HTTP(s) common protocol) for login and IP configuration.

During the device search process, if a device without a password is detected, a prompt will appear, allowing the user to set an initial password for the device.

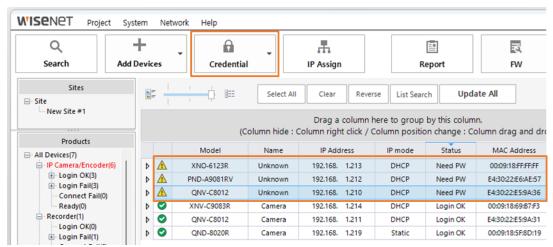
#### Note

To safeguard the password data, when transmitting information such as device details and passwords, it is encrypted using the unique RSA key of each device.

### 4.4.1. Login

To make direct changes to the configurations of a registered device from the Device Manager, the administrator password of the selected device must be entered and authenticated.

- 1) Select the device from the device list.
- 2) Click [Credential].

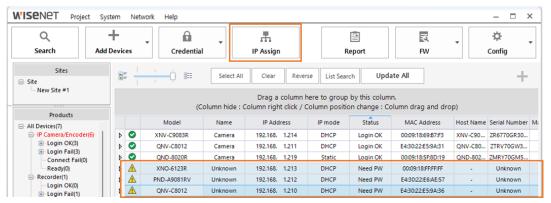


- 3) Enter the user ID and password, then click [Apply].
- 4) The login status is displayed in the [Result] section of each device.

### 4.4.2. IP Configuration

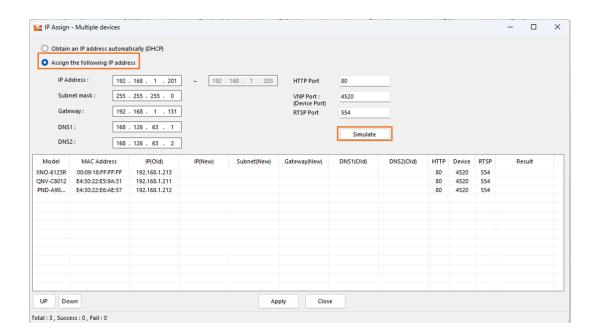
This feature allows you to set the IP address of the device. You can also set the IP addresses of multiple devices at once.

- 1) Select the device from the device list.
- 2) Click [IP Assign].



3) If you want the IP address to be automatically assigned through DHCP, select [Obtain an IP address automatically (DHCP)] in the [IP Assign – Single device] window, enter the port and DNS information, and click [Apply].

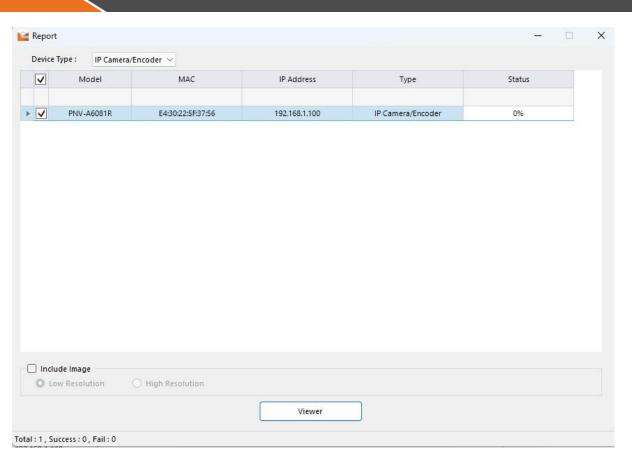
- 4) If you want to set a static IP address, select [Assign the following IP address] from the [IP Assign Single device] window, enter the starting address of the IP address, provide port information, and then click [Apply].
- 5) To set IP addresses for multiple devices at once, select multiple devices from step 1, then click [IP Assign].
- 6) From the [IP Assign Multiple devices] window, select [Assign the following IP address] and enter the starting address of the IP address, provide IP and Port information, and then click [Simulate].
- 7) After reviewing the IP address assigned to each device, click [Apply].



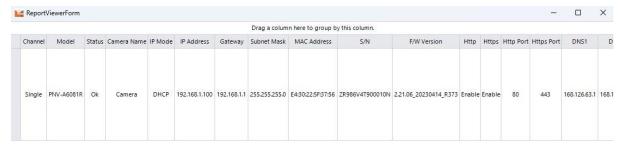
### 4.5. Report

You can generate a file containing device information and save it in either "xls" or "csv" format. SUNAPI (HTTP(s) common protocol) is used for collecting device information.

- 1) Select the device for which you want to generate the report from the device list.
- 2) Click [Report].
- 3) When the [Report] window appears, select the devices for which you want to generate the report and click [Viewer].



4) After reviewing the device information, click [Excel Export].



Excel Export

5) In the [Save As] dialog box, select the folder location and file format, then click [Save].

#### Note

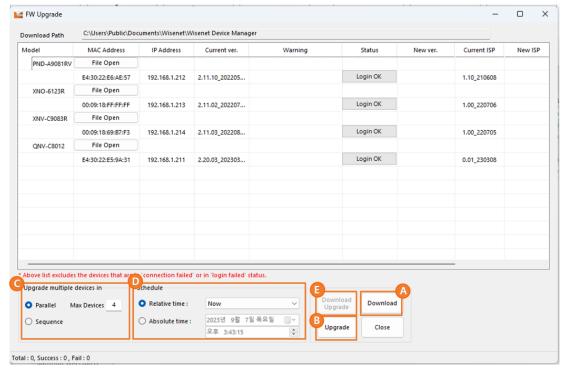
If you want to include images, check the "Include Image" checkbox and then select [Low Resolution] or [High Resolution]. If you save the report in CSV format, images will not be included.

### 4.6. Firmware

You can check the firmware status of authorized devices and perform firmware updates.

SUNAPI (HTTP(s) common protocol) is used for device firmware upgrades.

- 1) Select the device for which you want to update the firmware from the device list.
- 2) Click [FW] > [FW Update].
- 3) From the [FW Upgrade] window, you can perform the following actions:



- A. Download the firmware for the device.
  - A separate cloud server is used to support firmware download and is operated by an in-house network security management team.
- B. If you have downloaded the firmware, proceed with the firmware upgrade.
- C. If you want to upgrade multiple devices, choose from the following method:
  - Parallel: Upgrade up to 16 devices simultaneously. The number of devices in progress can be changed.
  - Sequence: Upgrade one device at a time in sequence.
- D. Schedule the date and time to automatically execute the firmware upgrade:
  - Relative time: The firmware upgrade will be executed after the selected time.
  - Absolute time: The firmware upgrade will be executed at the selected date and time.

#### Note

If the firmware window is closed, the upgrade cannot be performed at the scheduled time. The firmware window must remain open.

E. Download the latest firmware and proceed with the upgrade immediately. To execute this, select [Sequence] from [Upgrade multiple devices in] box.

#### Note

You can also perform a manual upgrade using firmware downloaded from a different source. Install the firmware acquired from a separate path on the PC with the Device Manager. Then, use [Open File] to locate the folder where the firmware is installed to proceed with the upgrade.

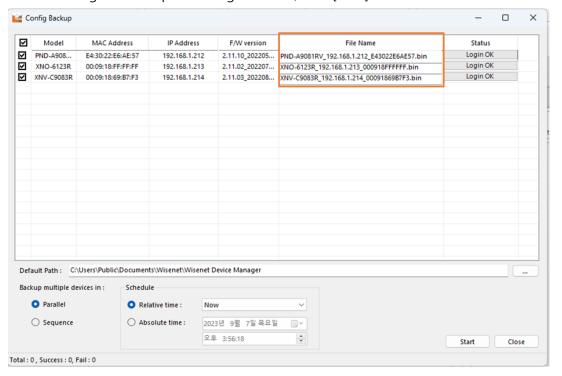
### 4.7. Backup and Restore Configuration

You can save or load device configuration information.

SUNAPI (HTTP(s) common protocol) is used for device configuration backup and restore.

#### **Backup Configuration**

- 1) Select the device you want to back up the configuration from the device list.
- 2) Click [Config] > [Config Backup].
- 3) The [Config Backup] window appears, and the backup file names of the devices are displayed.
- 4) After reviewing the backup file storage location, click [Start].



#### **Restore Configuration**

- 1) Select the device for which you want to restore the configuration from the device list.
- 2) Click [Config] > [Config Restore].

Config Restore Model IP Address Status MAC Address PND-A9081RV File Open E4:30:22:E6:AE:57 192.168.1.212 Login OK XNO-6123R File Open Login OK 00:09:18:FF:FF:FF 192.168.1.213 XNV-C9083R File Open 00:09:18:69:B7:F3 192.168.1.214 Login OK

3) From the [Config Restore] window, select the device and click [File Open].

4) Choose the configuration file you want to apply.

\* Above list excludes the devices that are in 'connection failed' or in 'login failed' status.

O Relative time : Now

Schedule

#### Note

When backing up or restoring configuration for multiple devices, you can choose from the following method.

- Parallel: Backup or restore up to 16 devices simultaneously. The number of devices in progress can be changed.
- Sequence: Backup or restore one device at a time in sequence.

You can also schedule the date and time for configuration backup or restore to be executed:

○ Absolute time : 2023년 9월 7일 목요일 및 ▼ 오후 3:58:00 ◆

- Relative time: The configuration backup or restore will be executed after the selected time.
- Absolute time: The configuration backup or restore will be executed at the selected date and time.

#### Note

If the [Config Backup] or [Config Restore] window is closed, the backup or restore cannot be performed at the scheduled time. The [Config Backup] or [Config Restore] window must remain open.

## 4.8. Certificate Setting

Export multiple devices in:

○ Sequence

Parallel

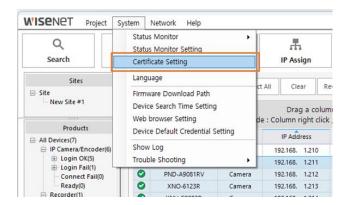
Total: 0 , Success: 0, Fail: 0

To open the [Certificate Setting] window, select [System] > [Certificate Setting].

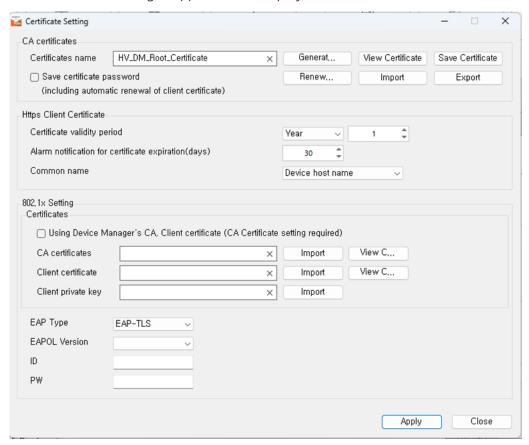
#### Note

The certificate follows the ITU-T X509 v3 standard, which is part of the public key infrastructure (PKI). It uses the RSA and sha256 algorithms to encrypt signatures and keys and supports PKCS#1, PKCS#7, PKCS#8 and PKCS#12.

Close



From the [Certificate Setting] window, you can set the certificates to be applied to HTTPS and 802.1x. The certificate setting is applied for each project.



#### 4.8.1. CA Certificate

From the [CA Certificates] section in the [Certificate Setting] window, you can generate or renew a certificate or import certificate to continue using the existing certificate.

• **Generate Certificate**: Create a new certificate based on the provided password, nickname, and save configuration. If the certificate is successfully created, the name of the certificate will

appear in the [Certificates name] input field.

- View Certificate: Review the information of the CA certificate that is currently applied.
- Save Certificate: Save the currently applied CA certificate in ".cer" or ".crt" file format.
- Renew Certificate: Renew the expiration date of the currently applied CA certificate.
- Import Certificate: Import the CA certificate in a ".pfx" or ".p12" file format.
- Export Certificate: Save the currently applied CA certificate in ".pfx" or ".p12" file format.

#### 4.8.2. HTTPS Client Certificate

From the [HTTPS Client Certificate] section in the [Certificate Setting] window, you can configure the validity period and alarm notification for expiration and select the common name of the HTTPS client certificate.

- Client Certificate Validity Period: Set the validity period (up to 3 years) when creating a client certificate.
- Alarm Notification for Certificate Expiration (Days): Display a reminder if the remaining validity period is less than the set days.
- **Common Name**: Select the naming method (Device IP address or Device Hostname) when creating the client certificate.

#### Note

You can import CA certificates, client certificates, and client keys. You can also specify additional settings related to them in advance.

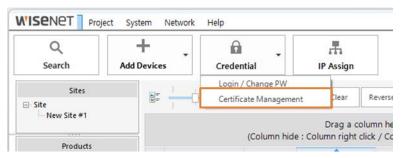
### 4.8.3. 802.1x Certificate Setting

From the [802.1x Setting] section in the [Certificate Setting] window, you can import CA certificates, client certificates, and client keys. You can also specify additional settings related to them in advance.

- You can use the CA and client certificates generated by the Device Manager. (In this case, a CA certificate setting is required.)
- You can import a CA or client certificate not issued by the Device Manager.
- · You can import a client private key.
- You can select EAP-TLS, LEAP, or PEAPv0/MSCHAPv2 for EAP type.
- You can set the EAPOL Version (f1 or 2).
- You can enter the ID and password of the certificate.

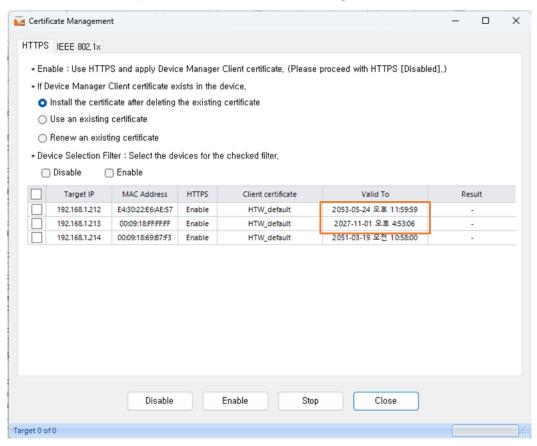
### 4.9. Certificate Management

To open the [Certificate Management] window, select [Credential] > [Certificate Management].



This feature allows you to configure the usage of HTTPS and 802.1x certificates and manage the validity period.

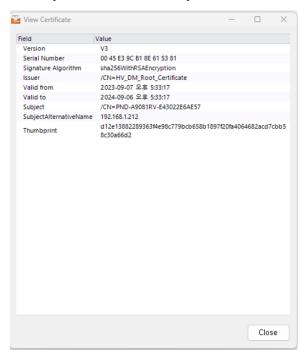
SUNAPI (HTTP(s) common protocol) is used for CA to manage client certificates.



### 4.9.1. HTTPS Setting

From the [HTTPS] tab in the [Certificate Management] window, you can set the way Device Manager's client certificate is applied based on HTTPS.

- If Device Manager's client certificate exists within the device:
  - Install the Certificate After Deleting Existing Certificate: Remove the existing Device Manager client certificate and issue and install a new one.
  - Use an Existing Certificate: Continue using the existing Device Manager client certificate.
  - Renew an Existing Certificate: Renew the validity period of the existing Device Manager client certificate.
- Device Selection Filter: You can select multiple devices that are checked from the list at
  once. If the device requires individual configuration, select the left checkbox next to the
  device on the list. Double-click on the client certificate cell on the list, or right-click and
  select [View Client Certificate] to view the certificate information.



Buttons in the [HTTPS] tab under the [Certificate Management] window.

- **Disable**: Disable HTTPS for the selected devices.
- **Enable**: Enable HTTPS and apply the client certificate for the selected devices.
- Stop: Stop all ongoing operations.
- Close: Close the [Certificate Management] window.

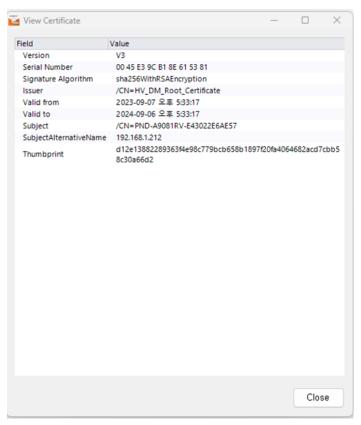
Note

The CA certificate must be configured from the [Certificate Setting] to be able to use the HTTPS certificate management feature. For certain devices, you may not be able to check certificate information.

### 4.9.2. IEEE 802.1x Configuration

From the [IEEE 802.1x] tab in the [Certificate Management] window, you can set the way Device Manager's CA or client certificate is applied based on IEEE 802.1x.

- If Device Manager's client certificate exists within the device:
   The feature is enabled only when the [Using Device Manager's CA, Client Certificate (CA Certificate Setting Required)] option is selected from the [802.1x Setting] > [Certificates] section in the [Certificate Setting] window.
  - Install the Certificate After Deleting Existing Certificate: Remove the existing Device Manager certificate and issue and install a new one.
  - Use an Existing Certificate: Remove the existing Device Manager certificate and issue and install a new one.
- Device Selection Filter: You can select multiple devices that are checked from the list at
  once. Double-click on the client certificate cell on the list, or right-click and [View Client
  Certificate] or [View CA Certificate] to view the certificate information.



Buttons in the [IEEE 802.1x] tab under the [Certificate Management] window.

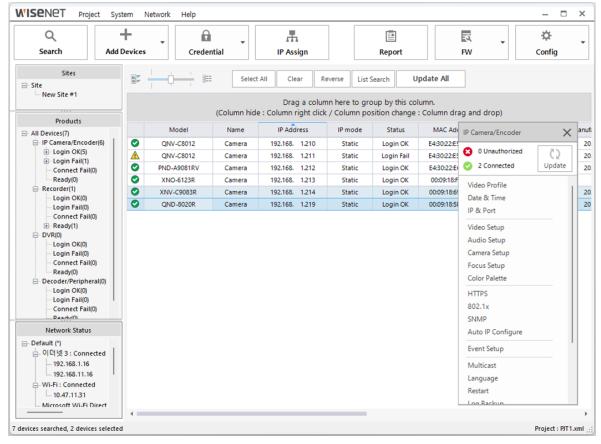
- **Disable**: Disable 802.1x for the selected devices.
- Enable: Enable 802.1x and apply the certificate for the selected devices.
- **Stop**: Stop all ongoing operations.
- Close: Close the [Certificate Management] window.

#### Note

When using the Device Manager certificate, you cannot use the same client certificate simultaneously with HTTPS. For certain devices, you may not be able to check certificate information.

### 4.10. Device Setup

When a device is selected from the device list, clicking the (+) button at the top reveals the device setup menu supported by the device. The items in the setup menu may vary depending on the device.

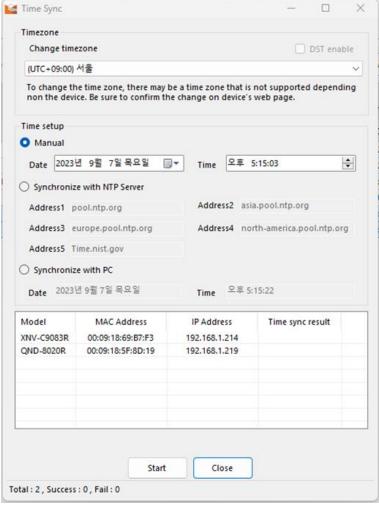


4.10.1. Video Profile

From the video profile, items such as codecs, frame rates, resolutions, and bitrates for the device can be configured. You can also add, delete, or modify profiles. Available options may differ depending on the device.

#### 4.10.2. Date & Time

Configure the date and time of the device. Time information can be configured for multiple devices at the same time. Available options include:



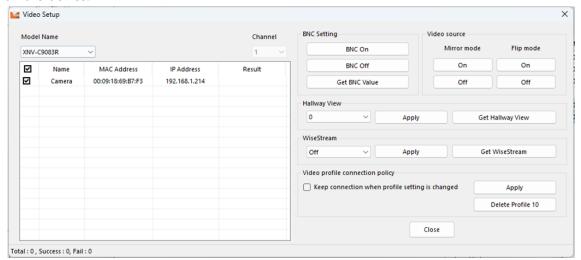
- Timezone: Set based on standard time zones.
- Manual: Manually input date and time information for the device.
- Synchronize with NTP Server: Synchronize date and time through an NTP server.
- Synchronize with PC: Synchronize the date and time with the PC where Device Manager is installed.

#### 4.10.3. IP & Port

View the device IP and other information and set the hostname. The input field is disabled for devices that do not support the hostname setting.

### 4.10.4. Video Setup

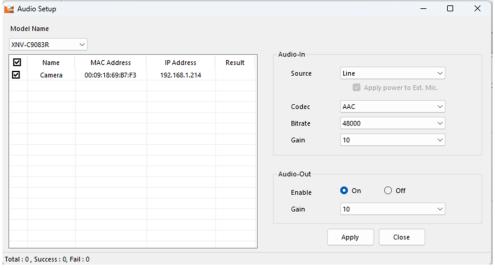
Configure video input, output, compression, and more. Available options may vary depending on the device.



- BNC Setting: Set analog video (BNC) output for the camera.
- Video Source: Set flip or mirror mode for the video.
- Hallway View: Rotate the video to adjust the monitoring area to fit the hallway.
- WiseStream: Adjust the level of video compression.

### 4.10.5. Audio Setup

Configure audio input and output for the device. Available options may vary depending on the device.

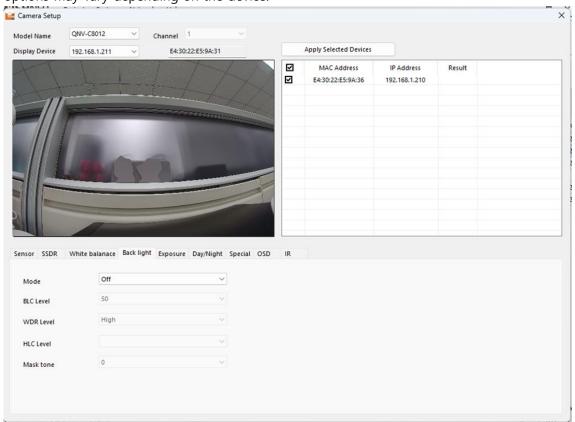


- Audio-in: Set the audio input method, choosing from Internal MIC, External MIC, or Line options.
- Codec: Set the audio codec, choosing from G.711, G.726, or AAC options.

- Gain: Set the amplification value for audio input, ranging from 1 to 10. The higher the value, the greater the amplification.
- Audio-out: Enable or disable audio output.

### 4.10.6. Camera Setup

Adjust the camera settings to fit the installed environment. Enabled features and available options may vary depending on the device.



- Sensor: Set the sensor mode (frames per second) for capturing video.
- SSDR: Configure the SSDR feature to balance the overall brightness in high-contrast lighting conditions by enhancing the brightness in darker areas. Increasing the level will further brighten the dark areas.
- White Balance: Correct the image based on white color to ensure the colors look natural regardless of the lighting conditions.
- Back Light: Compensate the backlight in an environment with a contrast between bright and dark areas to ensure visibility on both sides. Settings such as BLC, WDR, and HLC levels can be adjusted.
- Exposure: Modify exposure levels based on the installed environment of the device.
   Settings such as brightness, minimum and maximum shutter speed, anti-flicker, SSNR level, and iris focal length can be configured.

- Day/Night: Change video output between color and black-and-white based on the installed environment of the device. Mode, duration, dwell time, and alarm input can be configured.
- Special: Settings such as sharpness level, gamma, color level, fog calibration, and DIS can be configured.
- OSD: Display the title or date/time on the video screen and set display positions.
- IR: Select and set levels for IR LED mode.

### 4.10.7. Focus Setup

Configure the focus of the device. The availability of this feature may vary depending on the device.

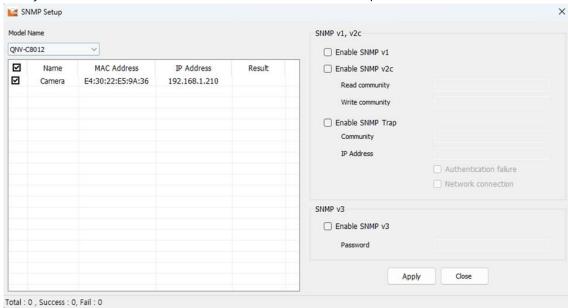
- Focus Initialize: The focus setting is initialized.
- Simple Focus: The focus is automatically adjusted.

#### 4.10.8. Color Palette

Configure the color palette of the thermal camera. This feature is only available for thermal cameras.

#### 4.10.9. SNMP

Set the SNMP protocol for the device. This enables remote monitoring and management by the system or network administrator. SNMP v1, v2, and v3 options are available.

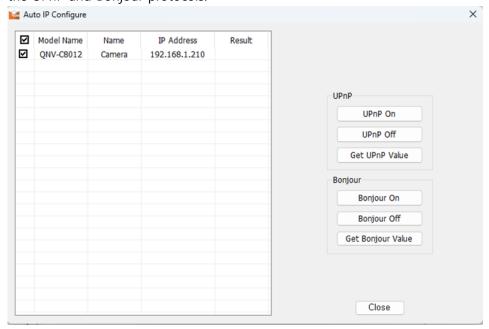


- SNMP v1: Basic feature with minimal security functions.
- SNMP v2: Data and authentication security algorithms are added, and bandwidth utilization is more efficient than SNMP v1. Selecting this option will activate read and write community, allowing input of respective community names.

- SNMP Trap: Send important events and statuses to the management system. This
  option will activate the community, IP address, and event occurrence condition
  (authentication failure and link connection).
- SNMP v3: Encrypted packets are used to prevent unauthorized access to data. User passwords can be set by selecting the option.

### 4.10.10. Auto IP Configuration

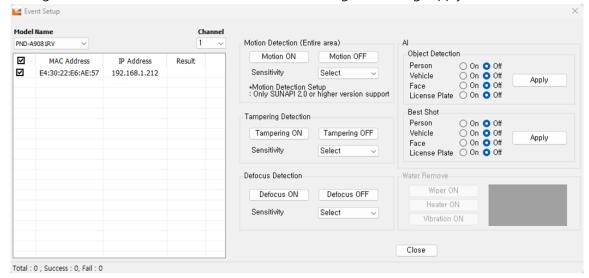
Automatically configure the device's connection and discoverable IP. You can choose between the UPnP and Bonjour protocols.



- UPnP (Universal Plug and Play): Search devices automatically from clients and operating systems that support UPnP. Devices connected to the network are displayed on Windows OS that supports UPnP.
- Bonjour: Search devices automatically from clients and operating systems that support Bonjour. On Mac OS that supports Bonjour, devices connected to the network are displayed on the Safari web browser bookmark.

### 4.10.11. Event Setup

Configure features related to event detection. The configured settings apply to the entire screen.



- Motion Detection: Trigger the event when motion is detected and adjust the sensitivity level. Higher sensitivity will result in better detection of events even in environments with unclear distinctions between background and objects.
- Tampering Detection: Trigger the event when the screen is covered or the camera position changes.
- Defocus Detection: Trigger the event when the camera's focus is blurred.
- Al: Trigger the object detection event when the object specified by the user is detected.
   Types of objects (person, vehicle, face, and license plate) and the best shot feature can be selected.
- PTZ Water Remove: Enable the wiper function of the PTZ camera.

#### 4.10.12. Multicast

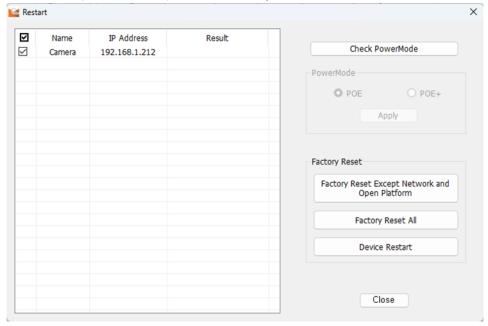
Configure multicast settings with this feature. You can turn the feature on or off and set the IP Address and Port.

#### 4.10.13. Language

This feature allows you to set the web viewer language.

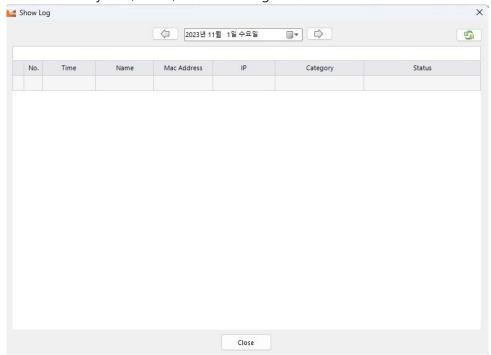
### 4.10.14. Restart

You can set power mode, perform a factory reset, and restart the device.



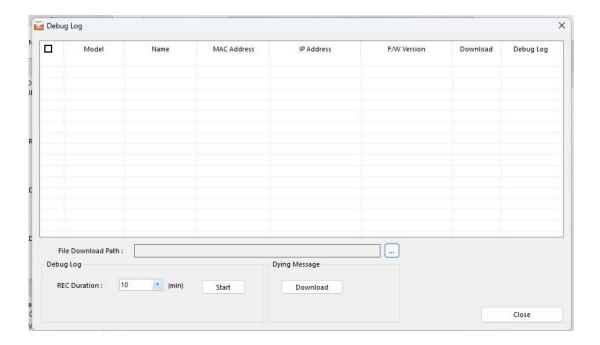
# 4.10.15. Show Log

Each device's system, event, and access log information can be viewed.



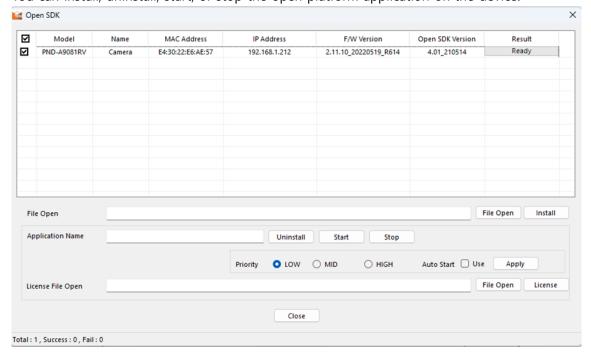
### 4.10.16. Debug Log

Selected device's debug log can be collected, which has specific operation. It can be also downloaded as csv file format, with supporting selection of downloading path. Recording duration is minimum 10 minutes and up to 60 minutes, by 10 minutes gradually.



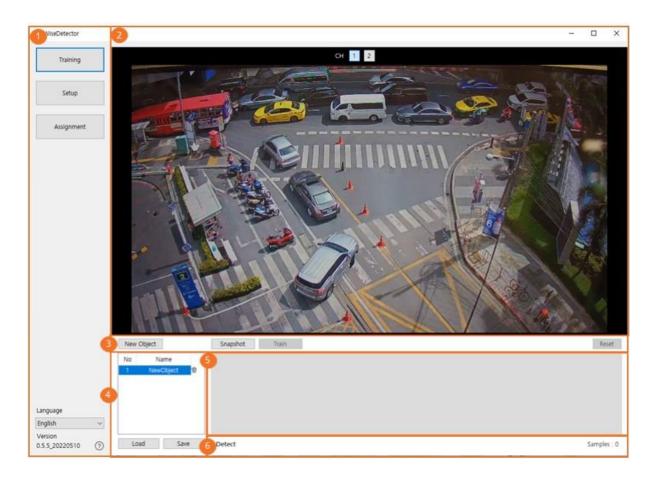
### 4.10.17. Open Platform

You can install, uninstall, start, or stop the open platform application on the device.



#### 4.10.18. WiseDetector

WiseDetector is a new feature designed to help cameras detect objects after the users select the objects they want and train the camera to detect them.



- ① Menu: View program features and version
- 2 View video: Display the connected camera video
- 3 Training features button: Provide features about training
- 4 Manage Objects: Display the object list and management features
- ⑤ Training Images: Display training sample images
- 6 Display Count: Display several samples and the number of detected objects

# 5. Conclusion

Device Manager is an intuitive program that allows users to efficiently manage and monitor multiple devices simultaneously in various locations without the burden of configuring devices individually. The ability to group devices according to their intended purposes further enhances user convenience by allowing them to manage the devices collectively in the system.

Hanwha Vision continuously updates the Device Manager to ensure seamless compatibility and configuration for the newly released lineup each year. There are also plans to provide ongoing support to facilitate the configuration and management of various devices in the future.

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