

i-PRO Management Software

i-PRO WV-ASM300W video management software enables a secure, scalable H.265/H.264 ready, multi-camera, multi-recorder, multi-site surveillance management environment suitable for any large to small scaled video security network systems which require centralized operation and ease-of-use.

The new 3D Dewarp feature helps you to have distortion-corrected images from fish-eye cameras, that you can use virtual PTZ operations for better operability and monitoring experience.

The WV-ASM300W can connect up to 100 network video recorders (NVRs) and digital video recorders (DVRs), 64 encoders, and 256 directly connected cameras. Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically indexed in the software. Adding i-PRO WV-CU980 system controller provides direct joystick control of your camera. Also the new built-in camera/recorder configuration wizard helps speed up your system configuration set-up time dramatically.

WV-ASM300W software supports 16:9, 4:3 and 9:16 corridor format aspect ratio video streams to be displayed on the same monitor. All LIVE, MAP, and OPERATION monitors support 4K resolution for demanding high-resolution operation.

With the combination using i-PRO camera and recorders provide full end-to-end AES-256bit encryption system with for mission critical applications. Also, camera SD card full-encryption-video-recording on the edge can be quickly downloaded and decrypted under a secured environment.

FULLY INTEGRATED

- Integrated camera control, viewing and recorder management
- Integrates i-PRO camera H.265 & i-PRO H.264 equipment

POWERFUL USER INTERFACE

- NEW user-interface design & 4K native GUI enhances usability
- Automatic camera configuration wizard speeds system set-up
- WV-ASM300W includes 3D Dewarp, multi-monitor and WV-CU980 support as standard

EXTREME DATA SECURITY

- Support SSL communication using GlobalSign device certification
- Support "AES-256bit" encryption video

SCALABLE AND EXTENDABLE

- Base : 100 recorders, 64 encoders and 256 cameras
- Expandable to thousands of cameras, recorders and encoders
- Full array of software extension modules available



(System Controller WV-CU980 and monitor displays are optional.)

Extension Software

Key Features :

WV-ASE202W

- Expand the maximum numbers of screens to 64.
- Up to 4 live windows.
- Multi-monitor function using up to 6 PC monitors.
- To display the operation window, the map window and the 4 live windows simultaneously.

WV-ASE203W

- Expand the maximum numbers of registered recorders, encoders and cameras to 100, 64 and 256 respectively.
- Up to 4 licenses for the WV-ASE203W can be added.

WV-ASE205W

- Visibility Enhancement Function

Spatial Tonal Correction

Snowfall and Rainfall Noise Reduction

Multi-frame Synthesis Noise Reduction

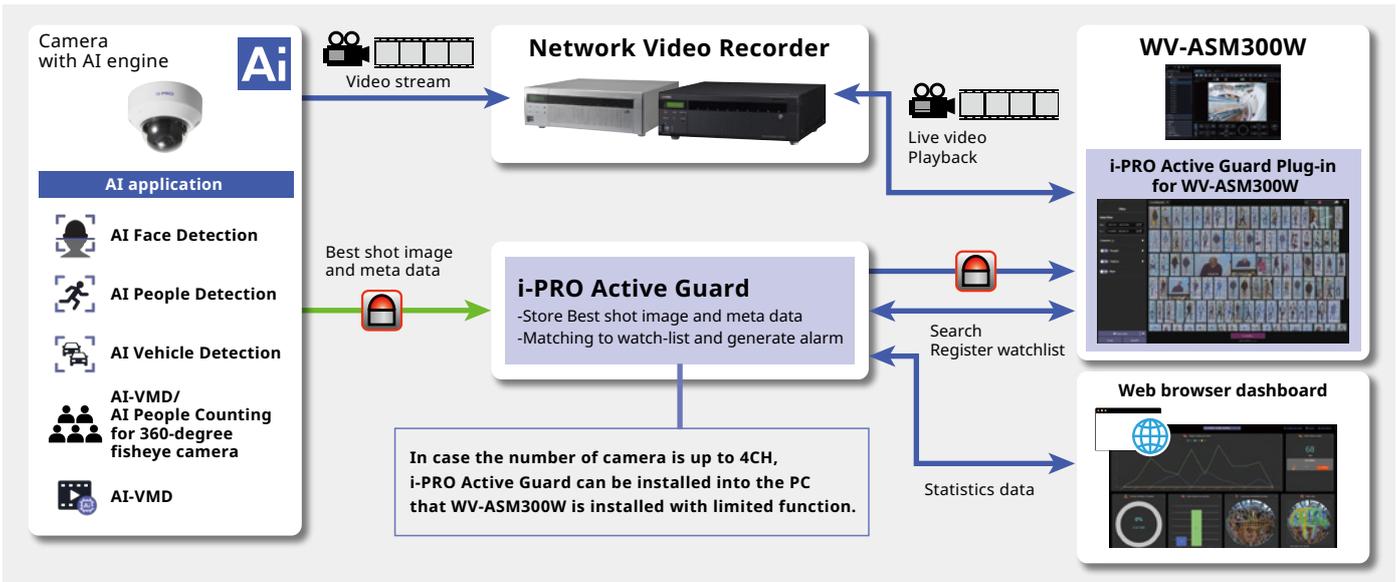


Spatial Tonal Correction , Snowfall and Rainfall Noise Reduction

i-PRO Active Guard Plug-in for WV-ASM300W

i-PRO Active Guard is a VMS plug-in that seamlessly integrates with Video Management System vendors.

It acts as an intelligent bridge between the VMS and i-PRO edge AI cameras, transforming raw video into searchable, actionable data—all within the operator's familiar interface. This diagram illustrates the integration between the WV-i-PRO Active Guard Plug-in and WV-ASM300W.



Optional Accessory

Ethernet 3D Joystick System Controller WV-CU980



Operation Window



Software Comparison Chart

Functions		WV-ASM300W Management Software - Basic	+WV-ASE202W Extension Software	+WV-ASE203W Extension Software	+WV-ASE205W Extension Software	
Main Functions / Description		Live / Playback / Control				
Supported Devices	Camera	Direct	i-PRO series			
		Via Recorder	i-PRO series			
	Recorder	NVR	WJ-NX510, WJ-NX410, WJ-NX310 WJ-NX400, WJ-ND400, WJ-NX300, WJ-NX200, WJ-NU301, WJ-NU300, WJ-NU201, WJ-NU101, WJ-NV300, WJ-NV200, WJ-ND300, WJ-ND200			
		DVR	WJ-HD716/616, WJ-HD300A			
		Recording Server				
	Encoder		WJ-GXE500, WJ-GXE100			
Controller		WV-CU950/WV-CU980				
Max. Devices	Camera	Direct	256		Max. 1,280*1	
		Via Recorder		12,800 (with WJ-NX510)		64,000 (with WJ-NX510)*1
				6,400 (with WJ-NX410)		32,000 (with WJ-NX410)*1
				6,400 (with WJ-NX400)		Max. 32,000 (with WJ-NX400)*1
				6,400 (with WJ-ND400)		Max. 32,000 (with WJ-ND400)*1
				3,200 (with WJ-NX310)		16,000 (with WJ-NX310)*1
				3,200 (with WJ-NX300, WJ-NX200)		Max. 16,000 (with WJ-NX300, WJ-NX200)*1
				3,200 (with WJ-ND300)		Max. 16,000 (with WJ-ND300)*1
			1,600 (with WJ-ND200 / WJ-NV200)		Max. 8,000 (with WJ-ND200 / WJ-NV200)*1	
		400 (with WJ-NX100)		Max. 2000 (with WJ-NX100)		
	Via Encoder	256 (with WJ-GXE500 / WJ-GXE100)		Max. 1,280*1		
Recorder		100		500*1		
Encoder		64		320*1		
Controller		1				
Supported Image Format		H.265, H.264, MPEG-4(i-PRO series), M-JPEG (depending on the source equipment)				
Supported Image Resolution		Depending on the source equipment (Current i-PRO Network Cameras, Encoders)				
Max. screens		20		68		
AVMD Display (Frame and Tracking Line)						
Multiple Monitors Supported		Yes (Up to 3 monitors : Operation / Live / Map)		Yes (Up to 6 monitors : Operation / Live / Map)		
3D Dewarp*2		Yes				
Map Function		Yes				
Audio		Yes (Live : 2-way, Playback : 1-way)				
Event Search (T&D, Event type etc.)		Yes				
VMD Search		Yes (with WJ-NX510, WJ-NX410, WJ-NX310, WJ-NX400, WJ-ND400, WJ-NX300, WJ-NX200 WJ-HD716/616, WJ-NV300, WJ-NV200)				
Image Download		Yes				
Visibility Enhancement						
					Yes	

*1 WV-ASE203W x 4 licenses and 500 recorders are necessary.

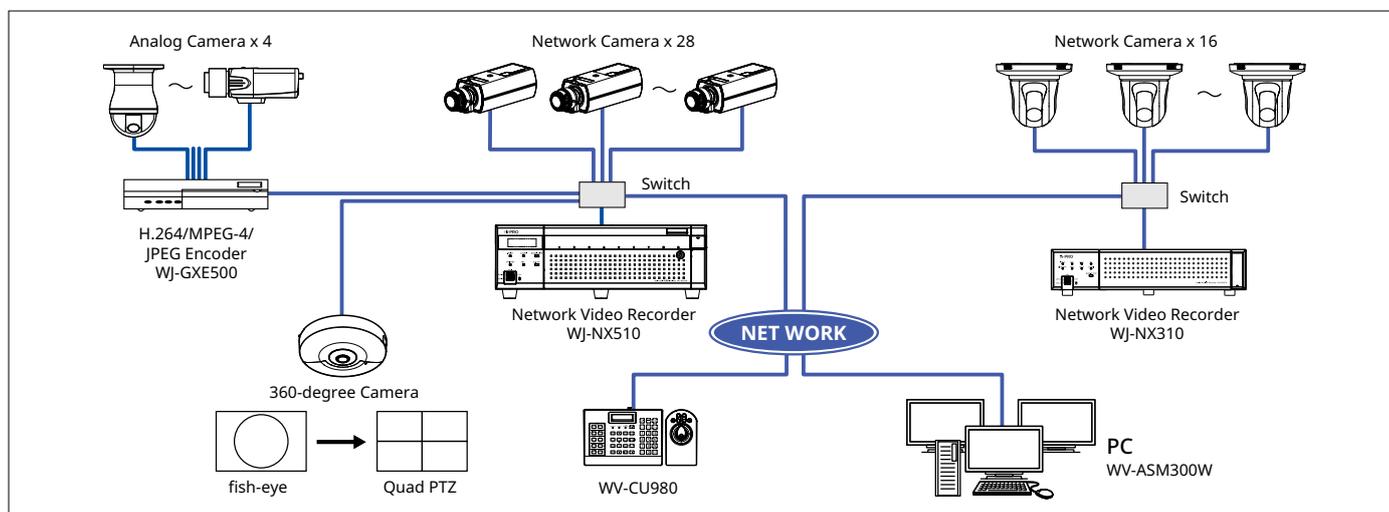
*2 When turned on, the drawing performance of 3D Dewarp may be affected by the following. (Refer to "Using the 3D dewarp function" in the instruction manual.)

- The resolution and frame rate will be reduced depending on the number of monitors and the number of screens.
- The frame rate will be reduced while "High-speed playback smooth mode" is operating.

If the operation monitor is connected to the built-in video card, the image may not be displayed correctly depending on the type of video card. In this case, update the driver of the built-in video card to the latest version. If the problem persists, connect the display for the operation monitor to an external video card.

(For information on external video cards, refer to Graphics accelerator in the "System requirements" section of the instruction manual.)

System Example



Specifications : WV-ASM300W

GUI Function	Camera Control (depending on the Camera)	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode (SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK), AUX 1-3, Click centering, Wheel zoom, Drag and zoom	
	Recorder Control (depending on the Recorder)	REC, PLAY, Rev PLAY, Pause, Stop, FF (up to 96x), REW (up to 96x), Prev Record, Next Record, Prev Image, Next Image, Skip (up to 60 min.), Rev Skip, (up to 60 min.) Text	
	Event Search	Target : Recorder (Camera) / Group / Map, Search criteria : Time date, Event type, Text	
	VMD Search	Target : Recorder (Camera), Search criteria : Time date, Area In case with WJ-ND400, WJ-HD716/616, WJ-NV200	
	Thumbnail Search	Target : Camera, Search criteria : Time date, Stream, Interval	
	Multi-Screen Mode	1, 2, 3, 4, 5, 6, 7, 10, 13, 16 split	
	Sequence Display	20 programs, 64 steps/pattern, 1, 2, 3, 4, 5, 6, 7, 10, 13, 16 split Dwell time : 3 s / 5 s / 10 s / 15 s / 20 s / 25 s / 30 s / 35 s / 40 s / 45 s / 50 s / 55 s / 1 min	
	Display Performance	30 ips x 16 screens at H.264 1.5 Mbps, 30 ips x 16 screens at MPEG-4 2 Mbps, 30 ips x 16 screens at H.265 768Kbps (VGA)	
	Multi-Monitor	Up to 3 monitors (Operation / Live / Map), Up to 20 cameras can be displayed (Operation-4, Live-16)	
	3D Dewarp(depending on the Camera)	PTZ image: Pan, Tilt, Zoom / fisheye images: rotation	
	Camera Group Display	Up to 400 groups with 16 alphanumeric titles	
	Number of Maps	Up to 100 maps (JPEG or Bitmap), Link : 128 cameras and 20 maps / map	
	Image Download	Recorded images of up to 64 cameras (in case with WJ-ND400) can be downloaded Manual download only. Viewer software can be extracted from the main software.	
	Quick download	Quick download the operation monitor image.	
	SD memory Download	Indicates the function featured in some i-PRO's cameras that transfers H.264 / H.265 video files (mp4 files) saved on the SD memory card equipped with the camera to a PC using the FTP function.	
	Recorder/Camera Access	The access to the Recorder and Camera Web pages when logged in as admin	
	File Conversion	Convert a n3r file to the standard format (mp4)	
	Camera Title Display	On the GUI, Up to 16 characters	
	Clock Display	On the GUI. Time : 12H/24H, Date : 5 formats (When the image comes from the recorder)	
	Alarm Source	TCP alarm notification	
	Alarm Control	Reset, Auto reset (OFF / 10 s / 20 s / 30 s / 1 min / 5 min)	
	Alarm Action	Up to 16 alarm images can be displayed on the live monitor. Corresponding camera icon on the map lights up. Alarm message on the GUI and buzzer.	
	Digital Zoom	Up to 4 times	
	Text Attachment	Free comment can be attached for each record and reviewed at later time. Up to 200 characters	
	System Log	Operation (100,000), System (1,000), Network error (1,000), Recorder error (1,000), Alarm (30,000)	
	Recorder Log Download	Operator access, Network error, Error, Event	
	User Management	Registration : Up to 32 users + Administrator, ID : 4-32 digit, PW* : 8-32 digit, User level : 6 levels (Programmable), PW time limit : OFF / 31 / 92 / 184 / 366 days, Auto login : ON / OFF *Two or more must be mixed from alphabet (case sensitive), numbers, symbols	
Security Method	User authentication (ID and Password), Host authentication (IP address), Alteration detection, Activation Key Card		
System Setup	Setup page in English, French, Italian, Spanish, German, Russian, Chinese, Thai, Japanese		
GUI Language	English, French, Italian, Spanish, German, Russian, Chinese, Thai, Japanese		
General	Supported OS	Microsoft® Windows® 11 Pro 64-bit *3 *4 • Version 21H2 (OS build 22000) or later Microsoft® Windows® 10 Pro 64-bit *3 *4 • Version 1909 (OS build 18363) or later	
	Required PC	CPU	Intel® Core i5-7500 or more, Intel® Core i7-7700 or more (CPUs for servers such as Xeon® are excluded.) Core i7 Recommendations*9 When displaying with 49/64-screen, when using a Fisheye camera other than 3M, when using the visibility enhancement function, when using When the image capture size is over Full-HD, when using an H.265 camera To enable hardware decoding, the CPU shall support Intel Quick Sync Video (QSV)
		Memory	16 GB (8 GB x 2) or more *5 (It is recommended to use a memory of the same performance on a dual channel compatible PC in pairs.)
	Graphic accelerator	VRAM	512 MB or more (256 MB minimum), compatible with DirectX® 9.0c To enable hardware decoding: Onboard graphics must be available and enabled, even when using a discrete GPU. When using a Live window : NVIDIA NVS 510, NVIDIA Quadro P1000, NVIDIA T1000, NVIDIA RTX A1000 *6 (The version 30.0.14.7444 or later is recommended for the driver software.) When using the visibility enhancement function : GeForce GTX 660 or more*1 *2, NVIDIA Quadro P1000*1 *2, NVIDIA T1000*1 *2, NVIDIA RTX A1000*1 *2 When using the visibility enhancement function (2048x1536 or more) : NVIDIA GeForce GTX 770 or more, NVIDIA Quadro P1000, NVIDIA T1000, NVIDIA RTX A1000 (The version GeForce 332.21 or later is recommended for the driver software.) When using 4K monitor : NVS510, NVIDIA Quadro P1000 (using a display port cable), NVIDIA T1000 (using a display port cable), NVIDIA RTX A1000 (using a display port cable) *7 *8
		DVD-ROM drive	Necessary to install this software
	Required HDD space	Approx.3 GB (It is necessary to prepare other disk space exclusively as storage for database and files downloaded from the recorder in addition to the required disk space for installation of this software.)	
	Monitor	1280 x 800 pixels or more (1920 x 1080 pixels recommended), 24-bit True color or better (Full color recommended)	
	Network interface	Having a 100/1000 Mbps network port	
	Web browser	Microsoft Edge (Chromium), Google Chrome, Mozilla Firefox	
	Network	Proxy	HTTP proxy supported (IP address and port No.)
FTP		Passive/Active	
Viewer Software	Playback Control	Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image	
	Additional Functions	Alteration detection, Save as JPEG, Two times zoom, Print	

*1 When using the visibility enhancement function, prepare and use a power supply unit compatible with the graphics card in use.

*2 When using the visibility enhancement function, do not use two or more graphics cards.

• Please check maintenance manuals for details.

*3 Caution

Installation

When you install the software, you can see the messages described below. Please refer the procedure for each message.

(1) "User Account Control"

If you see this message, please select "Continue" or "Yes" and continue the installation.

Setup software

- When you start ASM300, you may see this message.

(1) "User Account Control"

If you see this message, please select "Allow" or "Yes" and continue the ASM300 operation procedure. Uninstallation

- When you uninstall the software, you may see these messages.

(1) "User Account Control"

If you see this message, please select "Allow" or "Yes" and continue the uninstall procedure.

(2) "The following applications should be closed before continuing the installation*" When a message window is displayed in the process of the uninstallation to ask you to quit the applications, click the "Cancel" button on the displayed window to cancel the uninstallation. After stopping the appropriate services, retry the uninstallation.

*4 Operates in WOW64 (32-bit mode).

*5 It is recommended to use a memory of the same performance on a dual channel compatible PC in pairs. When using a single memory, the image display performance may be degraded in the following cases.

• When the image display method is scaling mode • When using a live window

*6 When not using the Live window or the visibility enhancement function, use the PC onboard graphics.

There are two download Types of driver software for NVIDIA video cards, "Production Branch/Studio" and "New Feature Branch"; "Production Branch/Studio" is recommended.

URL: <https://www.nvidia.com/download/index.aspx>

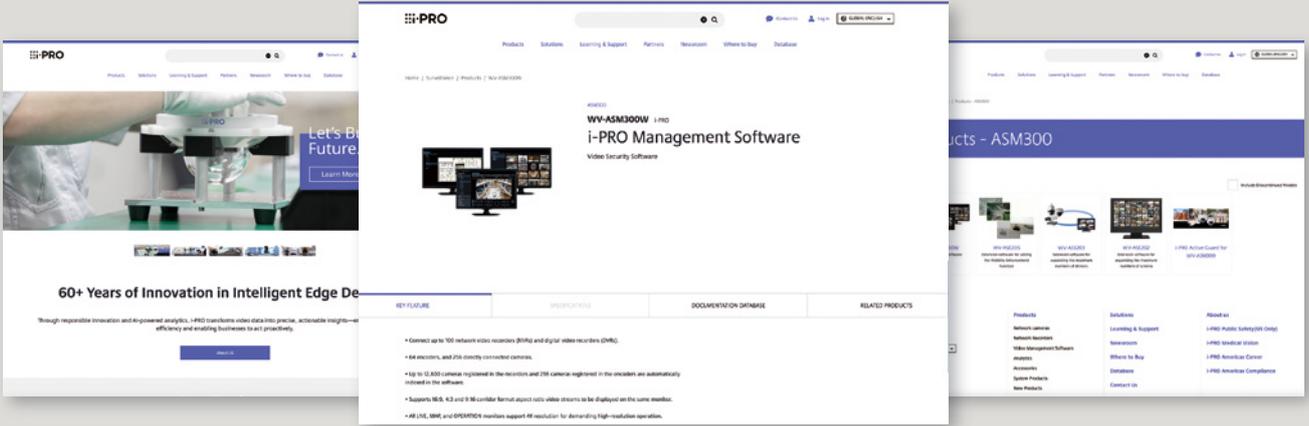
*7 When using a display port cable, due to the nature of the cable, the monitor may not be recognized temporarily when the power of the monitor is tired on/off. Occurrence of this phenomenon can vary position of the operation window and the live window.

*8 When using QSV, make sure that Intel HD Graphics version is 21.20.15.4528 or later. When using hardware decoder (H.265), make sure that intel HD Graphics version is 21.20.15.4528 or later.

The latest version of the driver can be downloaded from the following URL. Download a driver corresponding to the CPU in use and install it on the PC.

URL: <https://downloadcenter.intel.com>

*9 F models (without built-in video) are excluded



Products - ASM300

https://i-pro.com/products_and_solutions/en/surveillance/products/wv-asm300w

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- Specifications are subject to change without notice.

Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- i-PRO Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.
- When monitoring remotely, please pay attention to the network design.
- For details, please contact your local i-PRO sales representatives.



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https://i-pro.com/products_and_solutions/surveillance