Panasonic

BUSINESS

i-PRO Management Software WV-ASM200

Extension Software

WV-ASE201/WV-ASE202/WV-ASE203 WV-ASE204/WV-ASE205/WV-ASE231



i-PRO management software for multi-recorder multi-site system

Key Features: WV-ASM200

- Supports 16:9 video stream and 16:9 HD monitor. Displays 16:9 and 4:3 videos from IP cameras on the same screen.
- H.264 recording data in the SD/SDHC/SDXC memory card can be downloaded.
- Convert file format from n3r (proprietary format) to MP4.
- Online management system enables easy use without dongle.
- Up to 100 recorders, 64 encoders and 256 directly connected cameras can be registered. Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WV-ASM200 (the number of the cameras depends on the recorder and encoder).
- With WV-ASE203¹, maximum 500 recorders can be registered, up to 32,000 cameras registered in the recorders are automatically registered in the WV-ASM200 (the number of the cameras depends on the recorder and encoder).
- Live images can be received directly from the camera/encoder or via the recorder enabling flexible network design.
- Multi-Monitor option enables simultaneous use of Operation Display (1 / 4 / 9 / 16 split), Live Display (1 / 4 / 9 / 16 split) and Map Display each on a dedicated monitor. Single or two monitor operation is also available.
 A total of 20 screens can be displayed with the simultaneous use of the

Operation Display and the Live Display at a time.*2

- With WV-ASE202, maximum 64 screens in operation display is possible.
- Up to 16x 30 ips/camera images can be displayed in H.264 1.5 Mbps mode (VGA: Normal quality mode) or MPEG-4 2 Mbps mode (VGA: Normal quality mode, QVGA: High quality mode, depending on the camera and camera setup).
- Up to 400 camera groups: Cameras and multiscreen mode for the Operation Display can be programmed and called up by manual or sequence operation.
- Image resolution dynamically changes depending on the screen mode:
 VGA for Quad screen, QVGA for 16 split screen, enabling optimum network usage (depending on the camera model).
- Panasonic camera control: Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, AUX 1 to 3, Click Centering, Wheel Zoom, Specified area zoom by mouse dragging (depending on the camera model)
- A camera, a group or a sequence can be called up on the Operation Display by their ID with the optional system controller WV-CU950.*2
 The camera displayed in the active window can be controlled by the system controller. Recorder playback operation can also be made by the system controller with Jog/Shuttle.

- Alarm notification : A pop-up alarm message is displayed.
- Individual alarm reset is possible.
- Operation Display, Live Display, and Map Display reacts correspondingly with the alarm.
- Displays the present alarm log in red.
- When an alarm occurs, the monitor changes into the map automatically showing where the alarm happened.
- Illustrated camera, alarm and recorder icons for intuitive operations
- Up to 64 camera icons can be freely positioned on a map with alarm status indicated by the color of the icons.*2
- Recorded images of up to 64 cameras (in case with WJ-ND400) can be downloaded by one operation. Downloaded images can be viewed by the viewer software (provided).
- Sophisticated user management: User authentication with time limited password, 5 user levels, User-Camera View/Control partitioning in conjunction with recorder's user management function, Up to 32 user registrations
- System logs can be saved in CSV format. Operation logs can automatically be erased when specified time has passed (31 / 92 / 184 / 366 days).
- Audio from a camera can be heard and the operator voice can be transmitted to the camera's audio output through the network (single channel at a time, full/half duplex depending on the camera).
- Recorded audio with the WJ-ND200 or WJ-ND400 or WJ-NV200 can be played back (single channel at a time).
- Video Analytic functions of the WJ-NT314 such as intruder detection and object abandonment/removal detection can be displayed.
- When used with WJ-ND400 series, WJ-HD716/616, WJ-NV200, VMD search can be operated.
- 1-screen/4-screen PTZ compensation function (hereinafter compensation function) from the fish-eye images of the Panasonic Fisheye network cameras (WV-SF438 / WV-SF448 / WV-SW458)
- Supports 360-degree Network Microphone (WV-SMR10)
- Add Time line function
- Corresponding to the Active directory
- *1 WV-ASE203 4 licenses are necessary
- *2 WV-ASE201 is necessary.

Extension Softwares Key Features:

WV-ASE201

- Add Live window, Map window in addition to the Operation window (3 monitors)
- Control using the Ethernet System Controller WV-CU950
- Expand the maximum numbers of screens to 20.
- * To use the multi-monitor function, it is necessary to install an additional video card on the PC in use.

WV-ASE202

- 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 map windows simultaneously.

WV-ASE203

- Expand the maximum numbers of registered recorders, encoders and cameras to 100, 64 and 256 respectively.
- Up to 4 licenses for the WV-ASE203 can be added.

WV-ASE204

• Decoder registration: Up to 10 decoders

WV-ASE205

• Visibility Enhancement Function

Spatial Tonal Correction

Snowfall and Rainfall Noise Reduction

Multi-frame Synthesis Noise Reduction







Spatial Tonal Correction, Snowfall and Rainfall Noise Reduction

WV-ASE231

• Extension software for connecting to Facial Recognition Analytics Platform (WV-ASF900)

Face Search

Face Matching

People Counting, Age and Gender Statistics

*WV-ASF900 is necessary.



Face Search



People Counting, Age and Gender Statistics



i-VMD (Intelligent Video Motion Detection) track path display

* WV-ASE200 is required for each cameras.

Optional Accessory



Operation Window



Software Comparison Chart

Functions Main Functions / Description			WV-ASM200 (V.2.0 or later) Management Software - Basic	+WV-ASE201 Extension Software	+WV-ASE202 Extension Software	+WV-ASE201 +WV-ASE202 Extension Software	+WV-ASE203 Extension Software	+WV-ASE204 Extension Software	+WV-ASE205 Extension Software	+WV-ASE231 Extension Software
			Live / Playback / Control							
Supported	Camera	Direct	i-PRO series							
Devices		Via Recorder	i-PRO series, BB series*1							
	Recorder	NVR	WJ-ND400 series, WJ-ND300 series,							
			WJ-ND200 series,WJ-NV200 series							
		DVR	WJ-HD716/616, WJ-HD300A series							
	Encoder		WJ-GXE500							
	Decoder							WV-GXD400		
	Controller			WV-CU950		WV-CU950				
Max. Devices	Camera	Direct	256				Max. 1,280*2			
		Via Recorder	6,400 (with WJ-ND400 series)				Max. 32,000			
			0,400 (With W3-ND400 series)				(with WJ-ND400 series)*2			
			3,200 (with WJ-ND300 series)				Max. 16,000			
							(with WJ-ND300 series)*2			
			1,600				Max. 8,000*3			
			(with WJ-ND200 series / WJ-NV200 series)				(with WJ-ND200 series)*2			
		Via Encoder	256 (with WJ-GXE500)				Max. 1,280*3			
		Via Decoder								
	Recorder		100				500*3			
	Encoder		64				320*3			
	Decoder							10		
	Controller			1		1				
Supported Image Format			H.264, MPEG-4 (i-PRO series), M-JPEG							
Supported Image Resolution			2,048 x 1,536, 1,920 x 1,080,							
			1,280 x 960, 1,280 x 720, 960 x 720,							
			800 x 600, 640 x 480, 640 x 360,							
			320 x 240, 320 x 160							
			(depending on the source equipment)							
Max. screens			16	20	64	68				
AVMD Display (Frame and Tracking Line)		racking Line)	Yes							
Multiple Monitors Supported				Yes (Up to 3 monitors:		Yes (Up to 6 monitors:				
				Operation / Live / Map)		Operation / Live / Map)				
Map Function				Yes		Yes				
Audio			Yes (Live: 2-way, Playback: 1-way)							
Event Search (T&D, Event type etc.)			Yes							
VMD Search			Yes							
			(with WJ-ND400 series,							
			WJ-HD716/616, WJ-NV200)							
Image Download			Yes							
Visibility Enhand	ement								Yes	
Face Search*3										Yes
Face Matching*3										Yes
People counting*3										Yes
Age and Gender Statistics*3										Yes

^{*1} Specific Models only. Also, JPEG only is supported and camera control is not supported.
*2 WV-ASE203 x 5 licenses and 500 recorders are necessary.
*3 WV-ASF900 is necessary.

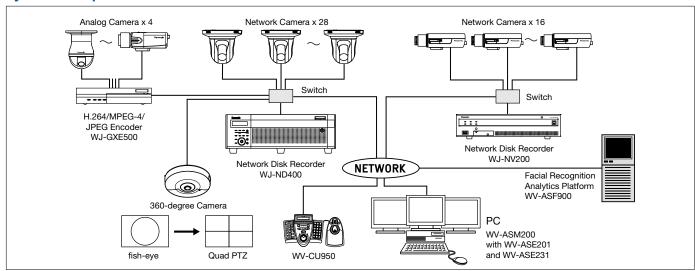
About the optional registration

The extensive options for Fisheye network cameras>
To use the extensive options for Fisheye network cameras, registration is required. To register the options, it is necessary to enter the "Registration Key" obtained from the Key Management System. Refer to the provided "Activation Key Card" to obtain the "Registration Key" of this software. Enter the following numbers for the Activation Key No. and the Registration ID.

Activation Key No.: 0401-0065-000A-1234 Registration ID: 2397-55CC

* To use the options, WV-ASM200 Ver.1.40 or later (option) is required. * Refer to "WV-ASM200 Series Setup Instructions (PDF)" for how to register the options for the product in use.

System Example



Specifications: WV-ASM200

Speci	ilcations: v	VV-A5IVI200						
GUI	Camera Control		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,					
Function	(depending on the Camera)		Click centering, Wheel zoom, Drag and zoom					
	Recorder Control		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.),					
	(depending on the Recorder)		Rev Skip, (up to 60 min.) Text					
	Event Search		Target: Recorder (Camera) / Group / Map ⁻¹ , Search criteria: Time date, Event type, Text					
	VMD Search		In case with WJ-ND400 series, WJ-HD716/616, WJ-NV200, WV-ASR500					
	Multiscreen Mode		Spot / Quad (A-D) / 9 split / 16 split					
	Sequence Display		10 programs, 64 steps/pattern, Spot / Quad / 9 split / 16 split					
	Display Performance		30 ips x 16 screens at H.264 1.5 Mbps, 30 ips x 16 screens at MPEG-4 2 Mbps					
	Multi-Monitor *1		Up to 3 monitors (Operation / Live / Map), Up to 20 cameras can be displayed (Operation-4, Live-16)					
	Camera Group Display		Up to 400 groups with 16 alphanumeric titles					
	Number of Maps *1		Up to 100 maps (JPEG or Bit map), Link: 64 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.					
	SD memory Download		Indicates the function featured in some Panasonic's cameras that transfers H.264 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 Displa	ay	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		Panasonic alarm protocol					
	Alarm Control		Reset, Auto reset (OFF / 10s / 20s / 30s / 1min / 5min)					
	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), Rec order error (1,000), Alarm (30,000)					
	Recorder Log Dow	nload	Operator access, Network error, Error, Event					
	User Management		Registration: Up to 32 users + Administrator, ID: 4-14 digit, PW: 4-8 digit, User level: 5 levels (Programmable), PW time limit: OFF / 31 / 92 / 184 / 366 days,					
	-		Auto login: ON / OFF					
	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, Japanese					
	GUI Language		English, French, Italian, Spanish, German, Russian, Chinese, Japanese					
General	Supported OS*2		Microsoft® Windows® 8.1 Pro 32bit/64bit'3, Microsoft® Windows® 8 Pro 32bit/64bit'3,					
			Microsoft® Windows® 7 Professional SP1 32bit/64bit'3, Microsoft® Windows Vista® Business SP2 32bit/64bit'3					
			The language of the OS must be same as selected GUI language.					
			* 4K cameras (WV-SFV781L / WV-SPV781L) are available only on Microsoft® Windows® 8.1 Pro 64bit.					
	Required PC*4 CPU		Intel® Core™ i5-2400, 2500, Intel® Core™ i7-860 or faster					
			When adding the license for WV-ASE202 and displaying images on a 64-screen: Intel® Core™ i7-3770					
			When adding the license for WV-ASE205 (Visibility enhancement function) : Intel® Core™ i7-4770 or faster					
			*Recommend a PC exclusively for WV-ASE205.					
			When using the network microphone (WV-SNR10 / WV-SNR10N3) : Intel® Core™ i7-4770 or faster					
			When using the 9-megapixcel network camera (WV-SFV481 / WV-SFN480) : Intel® Core™ i7-4770 or faster					
			When using the 4K network camera (WV-SFV781L / WV-SPV781L): Intel® Core™ i7-4790 or faster					
		Memory	3 GB or more,					
		,	When using more than one live window: 4 GB					
			When using the network microphone (WV-SMR10 / WV-SMR10N3) : 4 GB or more					
			When using the 9-megapixcel network camera (WV-SFV481 / WV-SFN480) : 4 GB* or more					
			When using the 4K network camera (WV-SFV781L / WV-SPV781L): 8 GB* or more					
			*Using the dual channel corresponding memory, it is the memory of the same performance and requires the use of in pairs.					
			(Example: In the case of 4 GB, use 2pcs of 2 GB memory)					
		Graphic accelerator*4	VRAM: 512 MB or more, compatible with Microsoft® DirectX® 9.0c or later					
			When using WV-ASE202: NVIDIA NVS510 x 2					
			When using WV-ASE205 (Visibility enhancement function): NVIDIA GeForce® GTX 660 or more					
			(The version GeForce® 332.21 or later is recommended for the driver software)					
			When using the 4K monitor*: NVIDIA NVS 510					
			*To display 4K2K resolution on a monitor at 60 Hz, connection on the display port 1.2 is required.					
		CD-ROM drive	Necessary to install this software					
		Required HDD space	Approx. 3 GB					
		Monitor	1280 x 800 pixels or more (1920 x 1080 pixels recommended), 24-bit True color or better (Full color recommended)					
		Network interface*4	120 A dod pieses of more (120 A 100 pieses recommended), 24-bit ride color of better if all color recommended) Having a 100/1000 Mbps network port					
		Web browser	Microsoft® Internet Explorer® 7, 8, 9					
Network	Proxy	T T T T T T T T T T T T T T T T T T T	HTTP proxy supported (IP address and port No.)					
	FTP		Passive/Active					
Viewer	Playback Control		Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image					
Software			Alteration detection, Save as JPEG, Two times zoom, Print					
	, additional runotions							

^{*1} WV-ASE201 is necessary.

In case of 4 monitor output in a graphical board together.

In case of 4 monitor output in a graphical board, you should design the followings only.

+ Operational monitor, Map monitor, live monitor 1 and live monitor 2

+ Operational monitor, live monitor 1, live monitor 2 and live monitor 3

- *4 For further and latest information, refer to our website. (http://security.panasonic.com/pss/security/support/technical/testedpc.html).

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- Important

 Panasonic recommends a dedicated PC to prevent installation errors and to keep best performance.

 Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.

 Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

 When remote monitoring, please pay attention to the network design. For details, please contact your local Panasonic sales representatives.
- All TV pictures are simulated.
- Masses and dimensions are approximate.
 Specifications are subject to change without notice.

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^{*2} Microsoft® Windows® XP not supported