Panasonic
ideas for life

i-PRO Management Software
WV-ASM200
Extension Software
WV-ASE201 / WV-ASE202
WV-ASE203 / WV-ASE204 (NTSC only)

WV-ASM200 with WV-ASE201

i-PRO SmartHD

H.264 MPEG-4 JPEG

(System Controller WV-CU950 and monitor displays are optional.)

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

Key Features: WV-ASM200/WV-ASE201/WV-ASE202/WV-ASE203/WV-ASE204

- 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 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-ASE203[2], 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.[1] 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 ~ 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.[1] 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.[1]
- 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.
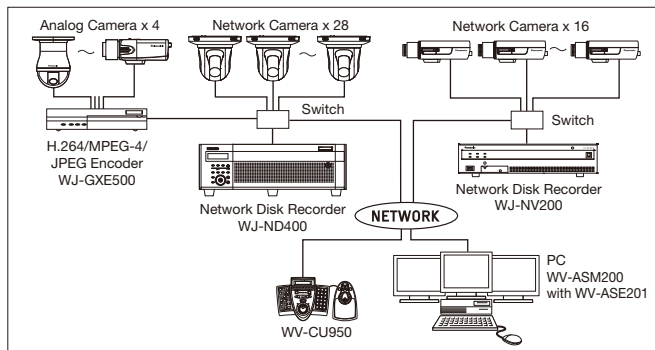
*1 WV-ASE201 is necessary.   *2 WV-ASE203 4 licenses are necessary.

Optional Accessory

Ethernet System Controller
with 3D-Joystick & Jog/Shuttle
WV-CU950 (WV-ASE201 is necessary.)

System Example

Analog Camera x 4   Network Camera x 28   Network Camera x 16

Switch   Switch

H.264/MPEG-4/
JPEG Encoder
WJ-GXE500

Network Disk Recorder
WJ-ND400

Network Disk Recorder
WJ-NV200

NETWORK

WV-CU950

PC
WV-ASM200
with WV-ASE201

Specifications: WV-ASM200/WV-ASE201/WV-ASE202/WV-ASE203/WV-ASE204

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*1, Search criteria: Time date, Event type, Text	
VMD Search	In case with WJ-ND400 series, WJ-HD716/616, WJ-NV200	
Multiscreen Mode	Spot / Quad (A-D) / 9 split / 16 split	
Sequence Display	10 programs, 64 steps/pattern, Spot / Quad / 9 split / 16 split. Dwell time: 3s / 5s / 10s / 15s / 20s / 25s / 30s / 35s / 40s / 45s / 50s / 55s / 1min	
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 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	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), 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: 4-14 digit, PW: 4-8 digit, User level: 5 levels (Programmable), PW time limit: OFF / 31 / 92 / 184 / 366 days, Auto login: ON / OFF	

GUI Function		
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 Vista® Business SP2 32bit/64bit, Microsoft® Windows® 7 Professional SP1 32bit/64bit. The language of the OS must be same as selected GUI language.
	Required PC	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™ i7-2600. RAM: 3 GB or more, When using more than one live window: 4 GB. VRAM: 512 MB or more (256 MB min.), Microsoft® DirectX® 9.0c or later. Web Brosuer: Internet Explorer® 7.0 or later (depends on a connected device)
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 WV-ASE201 is necessary. *2 Microsoft® Windows® XP not supported

Operation Window

Software Comparison Chart

Functions			WV-ASM200 (V.1.10 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 (NTSC only) Extension Software
Main Functions / Description			Live / Playback / Control					
Supported Devices	Camera	Direct	i-PRO series					
		Via Recorder	i-PRO series, BB series*3, Axis*3					
	Recorder	NVR	WJ-ND400 series, WJ-ND300 series, WJ-ND200 series,WJ-NV200 series					
		DVR	WJ-HD716/616, WJ-HD300A series					
	Encoder		WJ-GXE500, WJ-NT314, WJ-NT304					
	Decoder							WV-GXD400
	Controller			WV-CU950		WV-CU950		
Max. Devices	Camera	Direct	256				Max. 1,280*4	
		Via Recorder	6,400 (with WJ-ND400 series)				Max. 32,000 (with WJ-ND400 series)*4	
			3,200 (with WJ-ND300 series)				Max. 16,000 (with WJ-ND300 series)*4	
			1,600 (with WJ-ND200 series/WJ-NV200 series)				Max. 8,000 (with WJ-ND200 series)*4	
		Via Encoder	256 (with WJ-GXE500, WJ-NT314/304)				Max. 320*4	
		Via Decoder						
	Recorder		100				500*4	
	Encoder		64					
	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)			Yes					
Multiple Monitors Supported				Yes (Up to 3 monitors: Operation / Live / Map)		Yes (Up to 6 monitors: 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					

*3 Specific Models only. Also, JPEG only is supported and camera control is not supported. *4 WV-ASE203 x 4 licenses and 500 recorders are necessary.

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Important
– Panasonic recommends a dedicated PC to prevent installation errors and to keep best performance.
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside 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.
• These products may be subject to export control regulations.
• All product pictures are NTSC models.

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