



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

i-Pro management and monitoring software for multi-recorder multi-site system

Key Features: WV-ASM100/WV-ASM100L

- 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-ASM100 (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
- Up to 30 ips/camera can be displayed in 16 split-screen in MPEG-4 2 Mbps 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 (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 and live or playback images can be viewed by clicking the icon in the message.
- 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 the case of 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 can be played back (single channel at a time).
- Motion frames with trails for the moving subjects can be displayed when used with the WJ-NT314.*1
- When used with WJ-ND400, VMD search can be operated.

*1 Not available for WV-ASM100L.

Key Features: WV-ASM10

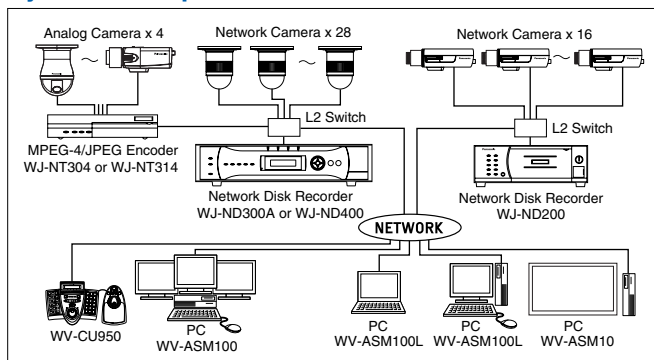
- WV-ASM10 i-Pro Monitoring Software provides up to 16 split live display including pre-programmed selection of cameras.
- Up to 16 recorders, 64 encoders and 256 directly connected cameras can be registered. Up to 512 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in WV-ASM10 (the number of the cameras depends on the recorder and encoder).
- Spot / Quad / 6 split / 9 split / 16 split multiscreen and synchronized multiscreen group sequence
- Up to 30 ips/camera in 16 split-screen in MPEG-4 2 Mbps mode (depending on the camera)
- Up to 400 camera groups: User-programmable cameras and multiscreen assignment
- Pre-programmed cameras can automatically be displayed upon power ON.
- Camera title within 16 alphanumeric characters embedded in the image can be displayed.

Optional Accessory

Ethernet System Controller with 3D-Joystick & Jog/Shuttle
WV-CU950
 (For WV-ASM100 only)



System Example



Specifications: WV-ASM100/WV-ASM100L

Supported Equipment	Supported Cameras	Direct: Panasonic i-Pro series Network cameras except for WV-NM100 Via Recorder: Panasonic i-Pro series Network cameras, BB series (specific models) and Axis® (specific models)	
	Supported Recorders	WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-HD309A/316A series, WJ-RT416 series	
	Supported Encoders	WJ-NT304, WJ-NT314	
	Supported Controllers ¹	WV-CU950	
	Supported Image Format	MPEG-4 (i-Pro series except for WV-NM100), M-JPEG	
	Maximum Number of Recorder Registrations	100, Cameras registered in the recorders are automatically registered in WV-ASM100/WV-ASM100L	
	Maximum Number of Encoder Registrations	64, Cameras registered in the encoders are automatically registered in WV-ASM100/WV-ASM100L	
	Maximum Number of Camera Registrations	Camera direct: 256, Via Recorder: 6,400 (in the case of WJ-ND400), 3,200 (in the case of WJ-ND300A), Via Encoder: 256 (in the case of WJ-NT304, WJ-NT314)	
	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
		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 the case of WJ-ND400
		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 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 the case of WJ-ND400) can be downloaded. Manual download only. Viewer software can be extracted from the main software.	
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 by Recorder	
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, Recorder login user: Up to 16 users	
Partitioning	User - Camera (View only, View & Control, No Access) in conjunction with recorder's user management		
Security Method	User authentication (ID and Password), Host authentication (IP address), Alteration detection, Hardware key (USB dongle)		
Time Synchronization	NTP (Server/Client)		
Summer Time	User definable (using menu setup)		
System Setup	Setup page in English, French, Italian, Spanish, German, Russian, Chinese		
GUI Language	English, French, Italian, Spanish, German, Russian, Chinese		
General	Supported OS	Microsoft® Windows® XP Home SP2, Microsoft® Windows® XP Professional SP2, Microsoft® Windows Vista® 32-bit, The language of the OS must be same as selected GUI language.	
	Required PC	CPU: Intel® Core™ 2 Duo 2.66 GHz or faster, RAM: 1 GB (for Microsoft® Windows® XP), 2 GB (for Microsoft® Windows Vista®) or more, VRAM: 128 MB or more, Microsoft® DirectX® 9.0c or later	
Network	Proxy	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	Additional Functions	Alteration detection, Save as JPEG, Two times zoom, Print	

¹ Not available for WV-ASM100L.

Specifications: WV-ASM10

Supported Equipment	Supported Cameras	Direct: Panasonic i-Pro series Network cameras except for WV-NM100 Via Recorder: Panasonic i-Pro series Network cameras, BB series (specific models) and Axis® (specific models)	
	Supported Recorders	WJ-ND300 series, WJ-ND200 series, WJ-HD309A/316A series	
	Supported Encoders	WJ-NT304	
	Supported Image Format	MPEG-4 (i-Pro series except for WV-NM100), M-JPEG	
	Maximum Number of Recorder Registrations	16, Cameras registered in the recorders are automatically registered in WV-ASM10	
	Maximum Number of Encoder Registrations	64, Cameras registered in the encoders are automatically registered in WV-ASM10	
	Maximum Number of Camera Registrations	Camera direct: 256, Via Recorder: 512 (in the case of WJ-ND300A), Via Encoder: 256 (in the case of WJ-NT304)	
	Display Function	Multiscreen Mode	Spot / Quad / 6 split / 9 split / 16 split
		Sequence Display	10 programs, 64 steps/pattern, Spot / Quad / 6 split / 9 split / 16 split, Dwell time: 3s / 5s / 10s / 15s / 20s
		Display Performance	30 ips x 16 screens at MPEG-4 2 Mbps
Camera Group Display		Up to 400 groups with 16 alphanumeric titles	
Camera Title Display		Up to 16 Characters (image embedded)	
Security Method		Hardware key (USB dongle)	
Time Synchronization		NTP (Server / Client)	
Summer Time		User definable (using menu setup)	
System Setup		Setup page in English, Chinese, Japanese	
General		Supported OS	Microsoft® Windows® XP Home SP2, Microsoft® Windows® XP Professional SP2, Microsoft® Windows Vista® 32-bit, The language of the OS must be same as selected GUI language.
	Required PC	CPU: Intel® Core™ 2 Duo 2.4 GHz or faster, RAM: 1 GB (for Microsoft® Windows® XP), 2 GB (for Microsoft® Windows Vista®) or more, VRAM: 128 MB or more, Microsoft® DirectX® 9.0c or later	
Network	Proxy	HTTP proxy supported (IP address and port No.)	

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Major Operating Controls

The screenshot shows the WV-ASM100 GUI interface. At the top, there is a Menu Bar, Tool Bar, and Status Bar. The main area is the Operation Window, which displays a video feed of two people in a hallway. Below the video feed is the Function Panel, Image Display Area, and Operation Panel. The Tool Bar contains 14 numbered icons for various functions. The Status Bar shows Recorder, Camera, and various status indicators. The Camera Operation Panel is located at the bottom and contains 7 numbered controls for camera functions.

Operation Window

Menu Bar Tool Bar Status Bar

Function Panel Image Display Area Operation Panel

Tool Bar

① [Save as JPEG file] Icon ⑤ [Display images on the selected area] Icon
 ② [Print] Icon ⑥ [1] Icon ⑨ [4C] Icon ⑫ [16] Icon
 ③ [Logout] Icon ⑦ [4A] Icon ⑩ [4D] Icon ⑬ [Full screen] Icon
 ④ [Display images on 1-screen] Icon ⑧ [4B] Icon ⑪ [9] Icon ⑭ [Search] Icon

Status Bar

① Recorder Title / Camera Title ⑤ [Audio reception] Button / ⑧ [COPY] / [DELETE]
 ② [ALM] Button [Audio transmission] Button ⑨ Time & Date
 ③ [ERR] Button ⑥ [LIVE] / [PLAY] / [SD PLAY]
 ④ [SD] Button ⑦ [REC] Indicator

Playback Operation Panel

① [REW] Button ⑨ [PAUSE] Button
 ② [PREV RECORD] Button ⑩ [STOP] Button
 ③ [REV PLAY] Button ⑪ [NEXT IMAGE] Button
 ④ [PLAY] Button ⑫ [SKIP] Button
 ⑤ [NEXT RECORD] Button ⑬ SKIP TIME
 ⑥ [FF] Button ⑭ [Speed] Button
 ⑦ [REV SKIP] Button ⑮ [TEXT] Button
 ⑧ [PREV IMAGE] Button ⑯ [REC START] / [REC STOP] Button

Camera Operation Panel

① Zoom ③ Auto Mode ⑤ Brightness ⑦ AUX
 ② Focus ④ Control Pad ⑥ Preset

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Important

– 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.

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