



(The pictures above are only for images.)

Easy and smooth integration from analog to IP system

Key Features: WV-ASC970

- Flexible system design : Analog, IP, and Hybrid analog/IP
- Up to 64 recorders, 1,024 monitors, and 2,048 cameras (in case with encoder) can be registered.
- Displays live images by selecting the camera number
- Controls camera and camera preset, and Group Preset
- Displays live Tour Sequence images on a multi-screen segment display
- Displays live Group Sequence images on several multi-screen segment displays
- Controls the camera and monitor by users' preset priority
- ON/OFF mode of the OSD on the selected monitor is possible.
- Sequence control : Tour Sequence (128 programs, 64 steps), Group Preset (128 programs, 64 views), Group Sequence (128 programs, 64 steps)
- Panasonic camera control: Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode (SEQ, SORT, AUTO PAN, PATROL), AUX 1 ~ 2
- Flexible monitor control suitable for wall mounted monitors
- Up to 512 users can be registered.
- Up to 64 users can login to WV-ASC970 simultaneously.
- Panasonic Alarm control by recorder, camera, and encoder
- Up to 2,048 alarms and up to 1,024 event schedules can be handled.
- User management : User authentication
- Camera/Sequence/Monitor selection, Camera control and Recorder control can be made with the optional system controller WV-CU950.
- Individual alarm reset and all alarm reset is possible with the system controller WV-CU950 and WV-ASM970.
- Simultaneous multi-site operation of up to 64 satellite system using WV-ASC970
- Redundant function by switching the operation to the other WV-ASC970 server in case of system failure
- Easy setup by i-PRO configuration software

Key Features: WV-ASM970

- Multi-Monitor option enables simultaneous use of Operation screen and Monitor screen (1 / 4 / 7 / 9 / 10 / 13 / 16 split) on a dedicated monitor. Two monitor operation is also available. Support 100 maps.
- Up to 30 ips/camera can be displayed in 16-split screen in H.264 1.5 Mbps mode with VGA (depending on the camera, camera setup and PC performance).
- The tool customized to the other language is separately offered.
- Privacy zones can be set on WV-ASM970 Monitor Screen.(Except PTZ camera)
- Handle the DVR as a small switch node.
- 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 mode).
- Easy search and playback with timeline function
- Simultaneous playback on 16-split screen display
- When an alarm occurs, the monitor changes into the map automatically showing where the alarm happened.

- Up to 64 camera icons can be freely positioned on a map with alarm status indicated by the color of the icons.
- Convert file format from n3r (proprietary format) to MP4
- 16:9 Full HD monitor support.
- Displays live images through WJ-ND400 and WJ-NV200.
- 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)

Key Features: Extension Software WV-ASE901*

- Monitor the status of Fire Alarm System.
- Manually reset or acknowledge fire alarms and faults of Fire Alarm System.
- Search history of fire alarm, faults and interlocking of Fire Alarm System.

* WV-ASE901 is only sold in certain areas. Please contact the sales company for details.

Key Features: WV-ASE902

- Up to 4 live monitor
- Multi monitor function up to 5 PC monitors
- To display the operation window and 4 live windows simultaneously

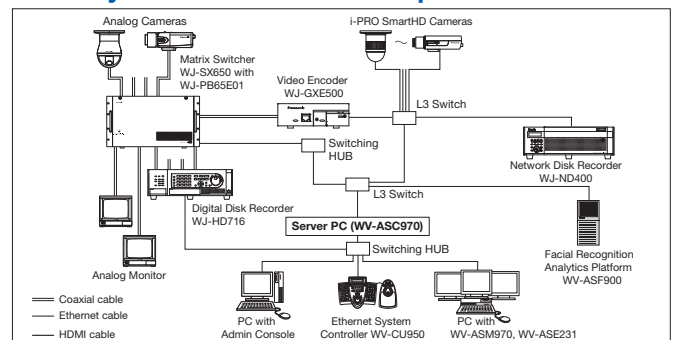
Key Features: WV-ASE231

- Extension Software for Facial Recognition Analytics Platform (WV-ASF900)
- Face Matching / Face Search / People counting results display on WV-ASM970 screen
- i-VMD (Intelligent Video Motion Detection) tracking path display on WV-ASM970 screen

System Components

IP Matrix Server Software WV-ASC970	IP Matrix Client Software WV-ASM970	Ethernet System Controller with 3D-Joystick & Jog/Shuttle WV-CU950
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Basic System Connection Example



* Download WV-ASM970 to client PC by connecting to WV-ASC970 server

Specifications: WV-ASC970

Supported Equipment	Supported Cameras	Panasonic Analog cameras, Panasonic i-PRO series Network cameras	
	Supported Recorders	WJ-NV200, WJ-NV300, WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-HD300 series ¹ , WJ-HD300A series, WJ-RT416 series, WJ-HD616/716 series, WV-ASR500 Series	
	Supported Switchers	WJ-SX850, WJ-SX650EX	
	Supported Encoders	WJ-GXE500, WJ-GXE100, WJ-NT304, WJ-NT314, WJ-GXE900 (MPEG-2 Encoder) ²	
	Supported Decoders	WJ-GXD400, WJ-GXD900 (MPEG-2 Decoder) ²	
	Supported Controller	WV-CU950, WV-ASM970	
	Supported Application	Facial Recognition Analytics Platform (WV-ASF900) ³	
	Max. Recorder Registrations	64	
	Max. Monitor Registrations	1,024	
	Max. Camera Registrations	2,048 (In case with encoder), Analog and/or IP camera ⁴	
	Supported System Type	Multicast/Unicast system	
	Function	Camera Control (depends on the camera)	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode (SEQ, SORT, AUTO PAN, PATROL), AUX 1 - 2, Back Focus, Super Dynamic On/Off
		Recorder Control (depends on the recorder)	REC (only Digital Disk Recorder), Playback
Sequence Control		Tour Sequence: 128 programs, 64 steps Group Preset: 128 programs, 64 views Group Sequence: 128 programs, 64 steps	
Camera Title Display		On the WJ-GXD400 and Analog Monitor	
Alarm Source		Panasonic alarm protocol by Recorder, Camera, Encoder, RS232C, I/O Ethernet Converter	
Alarm Control		Reset, Auto reset, Arm, Disarm, Ack, Auto ack, All reset	
Alarm Display Mode		Sequence, Hold	
Alarm Action		Camera spot, Tour sequence, Group sequence	
Max. Number of Alarm		2,048	
System Log		Operation, Alarm, Switching, Video loss	
User Management		Registration: Up to 512 users, ID: 5 digit, Password: 5 digit, User level: customize	
Simultaneous Login Users		Up to 64 (depends on network conditions)	
Partitioning		Operator - Controller, Controller - Monitor, Controller - Camera, Camera - Monitor	
Security Method		User authentication, Controller authentication (MAC address)	
Redundancy		Requires 2x PC, 2x WV-ASC970 server, and 1x RS-232C I/O	
Time Synchronization		NTP (Server/Client)	
GUI (Admin) Language		English	
Server Requirement	Supported OS	Red Hat Enterprise Linux [®] 5 or 6 server (x86)(English)	
	Required PC	CPU: Intel [®] Xeon [®] Processor 5140 (2.33 GHz) or faster, RAM: 2 GB or more, Network: 2x 100/Gigabit or more, HDD: 80 GB or more free drive space, CD-ROM, Port: 1x RS-232C	
Admin Console PC Requirement	Supported OS	Microsoft [®] Windows [®] 8 Pro 32bit/64bit ⁵ (English/Chinese) Microsoft [®] Windows [®] 7 Professional SP1 32bit/64bit ⁵ (English/Chinese) Microsoft [®] Windows Vista [®] Business SP2 32bit/64bit ⁵ (English/Chinese) Microsoft [®] Windows [®] XP Professional SP3 32bit (English/Chinese)	
	Required PC	CPU: Intel [®] Pentium [®] 4 processor 3.0 GHz or faster RAM: 512 MB or more Network: 10/100 Mbps HDD: 200 MB or more free drive space Monitor: 32-bit colors, 1,024 x 720 resolution	
Network	Protocol	HTTP (IP address and port No.), FTP, UDP	

¹ In case of using WV-ASC970 with WJ-HD300 Series, consult your sales company first. ² NTSC only
³ Extension software WV-ASE231 is necessary. ⁴ Depends on system configuration
⁵ Operation in WOW64 (32-bit mode)

Flexible Alarm Action

Flexible alarm actions can be assigned for each alarm.
Up to 2,048 alarms can be handled.

Alarm actions include:

- Display alarm information on the designated monitor
- Display alarm images from the camera or start the sequence display on the designated monitor
- Turn on the alarm indicator on all the system controllers and WV-ASM970

^{*} The WV-ASC970 does not support any error notifications (such as "REMOVE") from digital disk recorders or network disk recorders.

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- "Red Hat" is a trademark of Red Hat in the U.S. and other countries.
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- "i-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.

Important

- 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.

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Specifications: WV-ASM970

Supported Equipment	Supported Server	WV-ASC970 ¹
	Supported System Type	Multicast/Unicast system
GUI Function	Camera Control (depends on the camera)	Pan/Tilt, Zoom, Focus, Brightness, Preset position call (up to 256), Auto Pan, AUX1-2
	Recorder Control (depends on the recorder)	REC (only Digital Disk Recorder), Play, Rev Play, Pause, Stop, FF, REW, Prev Image, Next Image, Goto Last, Goto Date
	Monitor Control	Display division pattern switch, Camera select switch, Tour sequence, Group preset, Group sequence, Monitor lock
	Event Search	Target: Recorder (Camera), Search criteria: Time date, Event type
	Multiscreen Mode	Spot / Quad (A-D) / 7 split / 9 split / 10 split / 13 split / 16 split
	Display Performance	30 ips x 16 screens at MPEG-4 2 Mbps ² 30 ips x 16 screens at H.264 1.5 Mbps with VGA ²
	Multi-Monitor	2 Monitors (Operation/Monitor)
	Number of Maps	Up to 100 maps (JPEG or Bitmap), Link: 64 cameras/map
	Image Download	Recorded images of up to 64 (in case with WJ-ND400) can be downloaded. Manual download only. Viewer software can be extracted from the main software.
	Clock Display	On the GUI. Time: 12H/24H, Date: 5 formats
Alarm Control	Reset, All reset, Arm, Disarm, Ack, Auto ack	
System Setup	Setup page in English, Chinese	
GUI Language ³	English, Chinese	
PC Requirement	Supported OS	Microsoft [®] Windows [®] 8 Pro 32bit/64bit ⁴ (English and Chinese) Microsoft [®] Windows [®] 7 Professional SP1 32bit/64bit ⁴ (English and Chinese) Microsoft [®] Windows Vista [®] Business SP2 32bit/64bit ⁴ (English and Chinese) Microsoft [®] Windows [®] XP Professional SP3 32bit (English and Chinese)
	Supported Browser	Windows [®] Internet Explorer [®] 10, Windows [®] Internet Explorer [®] 9 Windows [®] Internet Explorer [®] 8, Windows [®] Internet Explorer [®] 7 Service Pack 1 Windows [®] Internet Explorer [®] 6 Service Pack 3 ⁵
	Required PC	CPU: Intel [®] Core [™] 2 Duo 2.66 GHz or faster / Intel [®] Core [™] 2 Quad Q9650 or faster / Intel [®] Core [™] i7-920 or faster, Memory: 2 GB or more / 3 GB or more (When operating H.264 images) When using more than one live window: 4 GB VRAM: 128 MB or more, compatible with DirectX [®] 9.0c When using WV-ASE902: NVIDIA [®] NV5S10 x 2
	Monitor	2 monitors with 1,280 x 1,024 pixels or more
Network	Protocol	HTTP (IP address and port No.), FTP
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	
WV-ASE901	Compatible Fire Alarm System	Panasonic EBL512 Ver.1.1

¹ WV-ASC970 Version 2.0 or later
² In case with Microsoft[®] Windows[®] 7 Professional (OS) and Intel[®] Core[™] i7-920 (CPU)
³ Separately, the tool customized to the other language is offered.
⁴ Operation in WOW64 (32-bit mode)
⁵ Windows[®] XP is not supported in case of using the extension software WV-ASE231.

About the optional registration

<The extensive options for Fisheye network cameras>

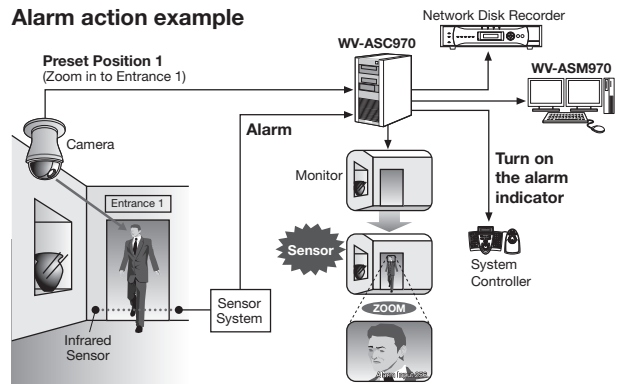
To use the extensive options for Fisheye network cameras, registration is required. To register the options, it is necessary to enter the "Registration Key" obtained from the Key Management System. Refer to the provided "Activation Key Card" to obtain the "Registration Key" of this software. Enter the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

Activation Key No. : 0404-0065-000A-1234 Registration ID : 25D5-6A66

^{*} To use the options, ASM970 Ver9.0 or later is required.

^{*} Refer to "WV-ASM970 Series Operating Instructions (HTML Help)" for how to register the options for the product in use.

Alarm action example



- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.

Panasonic

<http://security.panasonic.com>

<http://www.facebook.com/PanasonicNetworkCamera>

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