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-ASE203*, 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.**
- 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.**
- 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.**
- 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)

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*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

**WV-ASE231**
- Extension software for connecting to Facial Recognition Analytics Platform (WV-ASF900)
- Face Search
- Face Matching
- People Counting, Age and Gender Statistics

*WV-ASE200 is required for each cameras.*

Optional Accessory

Ethernet System Controller with 3D-Joystick & Jog/ Shuttle

**WV-CU950**
(WV-ASE201 is necessary.)
Software Comparison Chart

Functions | WV-ASM200 (V.2.0 or later) | +WV-ASE201 Extension Software | +WV-ASE202 Extension Software | +WV-ASE203 Extension Software | +WV-ASE204 Extension Software | +WV-ASE205 Extension Software | +WV-ASE231 Extension Software
--- | --- | --- | --- | --- | --- | --- | ---
Main Functions / Description | Live / Playback / Control | | | | | | |

Supported Devices

| Camera | Direct | i-PRO series
Via Recorder | 1
Recorder | WR, WJ-NX400 series, WJ-NX300 series, WJ-NX200 series, WJ-NX100 series
DVR | WJ-HD716/616, WJ-HD300X series
Encoder | WJ-GXE500
Decoder | WJ-GXD400
Controller | WV-CU950

Max. Devices

| Camera | Direct | 256 | Max. 1,280*
Via Recorder | 6,400 (with WJ-NX400 series)
3,200 (with WJ-NX300 series)
1,600 (with WJ-NX200 series)
Via Encoder | 256 (with WJ-GXE500)
Via Decoder | 64
Encoder | 64
Controller | 1

Supported Image Format

H.264, MPEG-4, 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 1 monitors)
Yes (Up to 5 monitors)

Operation / Live / Map

Operation / Live / Map

Map Function

Yes

Audio

Yes (Live: 2-way, Playback: 1-way)

Event Search (T&D, Event type etc.)

Yes

VMD Search

Yes (with WJ-NX400 series, WJ-HD716/616, WJ-NV200)

Image Download

Yes

Visibility Enhancement

Yes

Face Search*

Yes

Face Matching*

Yes

People counting*

Yes

Age and Gender Statistics*

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

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

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

Switch

Network Disk Recorder WJ-NV200

PC WV-ASM200 with WV-ASE201 and WV-ASE231

Facial Recognition Analytics Platform WV-ASF900

360-degree Camera

Quad PTZ

WV-CU950
**Specifications: WV-ASM200**

<table>
<thead>
<tr>
<th>Function</th>
<th>Camera Control (depending on the Camera)</th>
<th>GUI Language</th>
<th>Copyright</th>
<th>Security Method</th>
<th>System Setup</th>
<th>System Log</th>
<th>Establishing License</th>
<th>Recorded Images Download</th>
<th>System Requirements</th>
<th>Network Interface</th>
<th>Web Browser</th>
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<th>Viewer Software</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Pan/Tilt, Zoom, Focus, Brightness, Pre-set position call and command (up to 256), Auto mode (SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK), AUX 1 – 3, Click centering, Wheel zoom, Drag and zoom</td>
<td>English, French, Italian, Spanish, German, Russian, Chinese, Japanese</td>
<td>Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.</td>
<td>User authentication (ID and Password), Host authentication (IP address), Alteration detection, Activation Key Card</td>
<td>Setup page in English, French, Italian, Spanish, German, Russian, Chinese, Japanese</td>
<td>System Log: Operation [100,000], System [1,000], Network error [1,000], Rec order error [1,000], Alarm [1,000]</td>
<td>Panasonic recommends a dedicated PC to prevent installation errors and to keep best performance.</td>
<td>Recorded images of up to 64 cameras can be downloaded by Fill data download only. Viewer software can be extracted from the main software.</td>
<td>Intel® Core™ i7-2600, 2500, Intel® Core™ i7-860 or faster</td>
<td>100/1000 Mbps Network interface card must be installed.</td>
<td>Microsoft® Internet Explorer® 7.0, 8.0, 9.0</td>
<td>HTTP proxy supported (IP address and port No.)</td>
<td>Passive/Active</td>
<td></td>
<td>Alteration detection, Save as JPEg, Two times zoom, Print</td>
</tr>
<tr>
<td>Recorder Control (depending on the Recorder)</td>
<td>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</td>
<td>Intel® Windows® XP Professional 32bit/64bit, Microsoft® Windows® 8 Pro 32bit/64bit, Microsoft® Windows® 8 Pro 32bit/64bit, Microsoft® Windows® 7 Professional SP1 32bit/64bit, Microsoft® Windows Vista® Business SP2 32bit/64bit</td>
<td>The language of the OS must be same as selected GUI language.</td>
<td>User authentication (ID and Password), Host authentication (IP address), Alteration detection, Activation Key Card</td>
<td>Setup page in English, French, Italian, Spanish, German, Russian, Chinese, Japanese</td>
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<tr>
<td>VMD Search</td>
<td>Target Recorder/Camera</td>
<td>English, French, Italian, Spanish, German, Russian, Chinese, Japanese</td>
<td>Panasonic recommends a dedicated PC to prevent installation errors and to keep best performance.</td>
<td>User authentication (ID and Password), Host authentication (IP address), Alteration detection, Activation Key Card</td>
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</table>

**Operation Window**

- **Menu Bar**
  - **Tool Bar**
  - **Status Bar**

**Function Panel**

- **Information Display Area**
- **Function Panel**
- **Tool Bar**
- **Status Bar**
- **Menu Bar**

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- Intel and Intel Core are registered trademarks of Intel Corporation.
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- “i-PRO SmartHD” logo is trademarks or registered trademarks of Panasonic Corporation.
- Panasonic recommends a dedicated PC to prevent installation errors and to keep best performance.
- 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.

**Important**

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