



### Video Decoder built-in 16ch Network Disk Recorder

#### Key Features

- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded.
- Quick setup by automatic camera detection and simple setup wizard without the use of PC
- "Referenced recording days" is automatically calculated by frame rate, image quality and HDD capacity.
- Simple mouse operation by new GUI without the use of PC
- Quick intuitive search with calendar and timeline
- Live images from up to 16 cameras can be displayed simultaneously.
- Supports the Full HD output (HDMI) that can display recorded images and live images in high definition
- Various alarm sources include 9x Terminal inputs, 16x Camera alarm, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
- Camera Control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on camera model)
- Audio from the i-PRO network cameras can be recorded and played back, G.726 (ADPCM) 32 kbps.
- Flexible Playback Controls: Goto Date (Jump to specific time/date), Goto Last (Jump to 30 s before the record end)
- Various Display Modes: Spot, Multiscreen (4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen)
- Various Recording Modes: Schedule, Event (Pre/Post)
- Filtered Search: Time & Date, Event Type, Camera number, Timeline
- Recorded images can be downloaded to a PC.
- Downloadable viewer software allows playback of images downloaded from the Recorder.
- Built-in network interface (10Base-T / 100Base-TX / 1000Base-T) for recording and client access
- Up to 4 clients can monitor image and control WJ-NV200 simultaneously.
- Up to 2 HDDs (3.5 inch Serial ATA) can be installed. (WJ-NV200 only)
- User authentication, 3 user levels and User level - Camera partitioning setup for user management of up to 16 user registrations

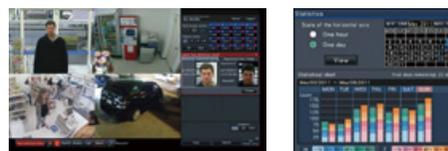
- Multi-recorder, Multi-site system can be made with optional WV-ASM200 i-PRO Management Software.
- Onvif NVC (Network Video Client), core spec Ver.1.02 conformant
- DVD drive built-in (WJ-NV200V)

#### Standard Accessories

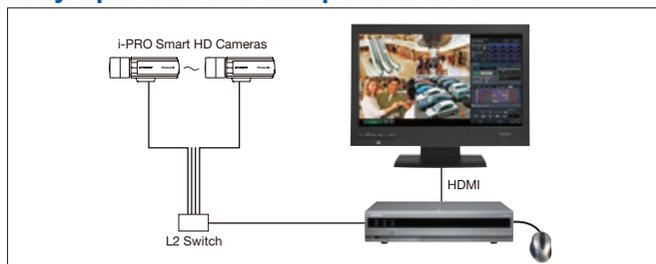
- |                               |       |  |        |
|-------------------------------|-------|--|--------|
| • CD-ROM* .....               | 1 pc. | The following are for installation:                      |        |
| • Mouse .....                 | 1 pc. | • Power Cord .....                                       | 1 pc.  |
| • Installation Guide .....    | 1 pc. | • HDD Fixing Screw.....                                  | 8 pcs. |
| • Quick Reference Guide ..... | 1 pc. | * The CD-ROM contains the operating instructions (PDFs). |        |

#### Additional Kit

Additional Business Intelligence Kit  
WJ-NV20



#### Easy Operation and Setup without PC



# Specifications

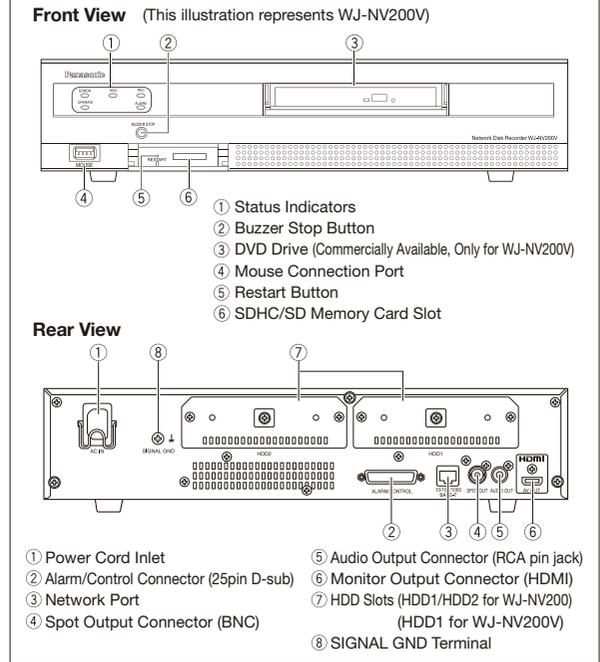
| TV System                     | NTSC  |  |   |
|-------------------------------|---|--|---|
| <b>Supported Cameras</b>      | Supported Cameras   | Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera  |   |
|                               | Supported Image Format  | H.264, MPEG-4, MJPEG   |   |
|                               | Supported Image Resolution  | Aspect ratio [4:3]: SXVGA (1,280 x 960), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240)<br>Aspect ratio [16:9]: 1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180* Depending on the camera |   |
|                               | Supported Audio Format  | G.726 (ADPCM) 32 kbps  |   |
|                               | Maximum Number of Cameras   | 16   |   |
| <b>Recording</b>              | Recording Mode  | Event, Schedule  |   |
|                               | Pre-alarm Recording   | Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution)   |   |
|                               | Scheduled Recording Mode  | 2 programs, 3 time zones/day, Independent setup for each day of the week   |   |
|                               | Frame Rate/Camera   | Up to 30 ips (Depending on the Camera)   |   |
| <b>Main Unit Functions</b>    | Camera Control  | Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus   |   |
|                               | Multiscreen Mode  | 4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen   |   |
|                               | Playback Control  | PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)   |   |
|                               | Search Mode   | Search criteria: Time date, Playback by designating a timeline, VMD  |   |
|                               | Copy  | Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.   |   |
|                               | Camera Title  | Up to 14 characters  |   |
|                               | Clock Display   | Time: 12H/24H, Date: 5 formats   |   |
|                               | Digital Zoom  | Live: 2x, 4x, 8x (only for 1-screen or 4-screen) Play: 2x, 4x, 8x  |   |
|                               | System Log  | Operator access (100), Network error (100), Error (1,000), Event (750)   |   |
|                               | System Setup  | Setup page in English, French, Italian, Spanish, German, Russian, Japanese   |   |
|                               | <b>Browser GUI</b>  | Camera Control   | Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset |
|                               |   | Playback Control   | REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)             |
| Search Mode                   |   | Search criteria: Time date, Event type, VMD, Camera number   |   |
| Display Mode                  |   | 1 / 4 screen   |   |
| Image Download                |   | Recorded data of selected camera and time range can be downloaded to a PC. Viewer software can be downloaded separately.   |   |
| Copy                          |   | Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.   |   |
| Camera Title                  |   | Up to 14 characters  |   |
| Clock Display                 |   | On the browser. Time: 12H/24H, Date: 5 formats   |   |
| Digital Zoom                  |   | Live/Play: 2x, 4x (only for 1-screen)  |   |
| System Log                    |   | Operator access (100), Network error (100), Error (1,000), Event (750)   |   |
| GUI Language                  |   | English, French, Italian, Spanish, German, Russian, Japanese   |   |
| Supported OS                  |   | Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3  |   |
|                               | Supported Browser   | Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)                        |   |
| Required PC                   | MJPEG/MPEG-4  | CPU: Intel® Core™ 2 Duo 2.66 GHz or faster, RAM: 1 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later  |   |
|                               | H.264   | CPU: Intel® Core™ i7-920 or faster, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later  |   |
| <b>Alarm/Event</b>            | Alarm Source  | 9x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol  |   |
|                               | Event Mode  | Off / On   |   |
|                               | Alarm Action  | Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator   |   |
|                               | Alarm Control   | Reset  |   |
|                               | Event Log   | 750  |   |
| <b>Input / Output</b>         | Spot Output Connector   | 1x 1 V [p-p] / 75 Ω (BNC)  |   |
|                               | Monitor (HDMI) Connector  | 1x HDMI 1920x1080i / 60Hz, 720x480p / 60Hz   |   |
|                               | Audio Output Connector  | 1x -10 dBV, 600 Ω, Unbalanced (RCA)  |   |
|                               | Alarm/Control Connector (25pin D-sub)   | Alarm  | Alarm input 1 ~ 9 <sup>1</sup> , Alarm output <sup>2</sup> , Alarm reset input <sup>1</sup>   |
|                               |   | Control  | Time adjustment input <sup>1</sup> , +5 V output <sup>3</sup>   |
|                               | Error/Warning   | Error  | Network error output <sup>2</sup> , HDD error output <sup>2</sup> , Camera error output <sup>2</sup> ,                              |
|                               |   | Warning  | Recorder error output <sup>2</sup> , Recording error output <sup>2</sup>  |
| Mouse Connection Port         | 1x  |  |   |
| Network Port                  | 1x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)                                   |  |   |
| SDHC/SD Memory Card Slot      | SDHC/SD memory cards applicable (miniSD cards and microSD cards not applicable) |  |   |
| <b>Network</b>                | Maximum Bandwidth   | Total 80 Mbps or less  |   |
|                               | Supported Protocol  | TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, RTP   |   |
|                               | E-mail  | Upon Alarm or Warning  |   |
|                               | No. of Simultaneous Users   | 4 or less  |   |
|                               | User Registration   | Up to 16 users   |   |
|                               | User Level  | 3 Levels (Programmable)  |   |
|                               | Partitioning  | User level - Camera (View & Control, No Access)  |   |
| Security Method               | User authentication (ID and Password), Alteration detection                     |  |   |
| Other Functions               | Time Synchronization  | Terminal (Slave), NTP (Server/Client)  |   |
| <b>HDD</b>                    | Summer Time   | User definable (using menu setup)  |   |
|                               | Type  | WJ-NV200: 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.<br>WJ-NV200V: 8.89 cm (3.5 inch) Serial ATA HDD Up to 1x HDD can be installed.                                    |   |
| <b>DVD</b> (WJ-NV200V only)   | Supported DVD disk type   | DVD-R, +R (Not supported : DVD-R DL, +R DL, DVD-R for authoring, 8 cm disks)   |   |
| <b>Viewer Software</b>        | Playback Control  | Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image  |   |
|                               | Additional Functions  | Alteration detection, Save as JPEG, Two times zoom, Print, Copy  |   |
|                               | Supported OS, Language  | Same as browser GUI, Language of the software will be English  |   |
| <b>General Specifications</b> | Safety/EMC Standard   | UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)   |   |
|                               | Power Source  | 120 V AC, 60 Hz  |   |
|                               | Power Consumption   | approx. 45 W   |   |

- 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.

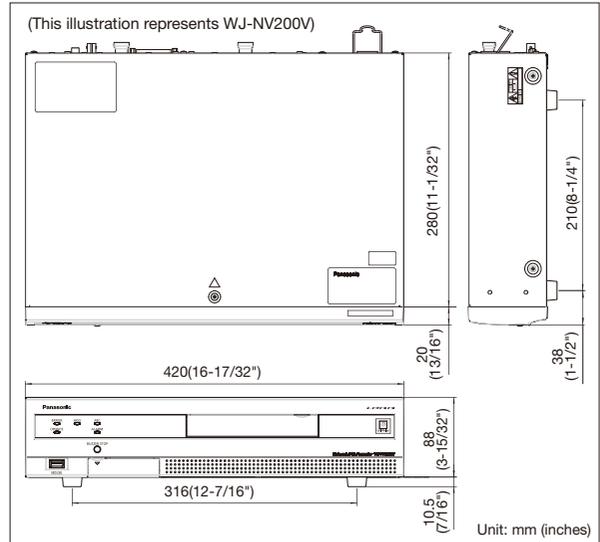
| TV System                     | NTSC                          |  |
|-------------------------------|-------------------------------|--|
| <b>General Specifications</b> | Ambient Operating Temperature | Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F)<br>Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F)                                  |
|                               | Ambient Operating Humidity    | WJ-NV200 : 5 % ~ 90 % (without condensation)<br>WJ-NV200V : 10 % ~ 80 % (without condensation)                                   |
|                               | Maximum Operating Altitude    | 2,000 m (6,562 feet) above sea level   |
|                               | Dimensions                    | 420 mm (W) x 88 mm (H) x 300 mm (D)<br>(16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D))<br>(excluding rubber feet and projections) |
|                               | Mass (approx.)                | 4.8 kg (10.6 lbs.) without HDD<br>5.6 kg (12.36 lbs.) with 1 HDD<br>6.4 kg (14.13 lbs.) with 2 HDDs (WJ-NV200 only)              |
|                               |                               |  |
|                               |                               |  |
|                               |                               |  |
|                               |                               |  |
|                               |                               |  |

- \*1: Non-voltage make contact input, 50 kΩ +5 V DC pull-up
- \*2: Open collector output, 24 V DC, 100 mA max. \*3: 200 mA max.

## Part Names and Functions



## Appearance



- Trademarks and registered trademarks**
- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
  - Axis is a registered trademark of Axis Communications AB.
  - UniPlier is a registered trademark of Panasonic Corporation.
  - "i-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.
  - ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
- Important**
- Safety Precaution: Carefully read the operating instructions and installation manual 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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