



## 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 can be installed. (8.89 cm (3.5 inch) Serial ATA HDD)

- 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

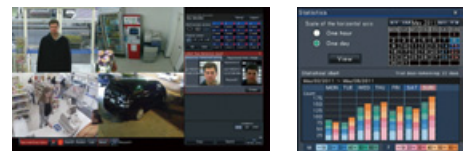
### Standard Accessories

• CD-ROM* .....	1 pc.	The following are for installation:
• Mouse .....	1 pc.	• Power Cord .....
• Installation Guide .....	1 pc.	• HDD Fixing Screw.....
• Quick Reference Guide .....	1 pc.	8 pcs.

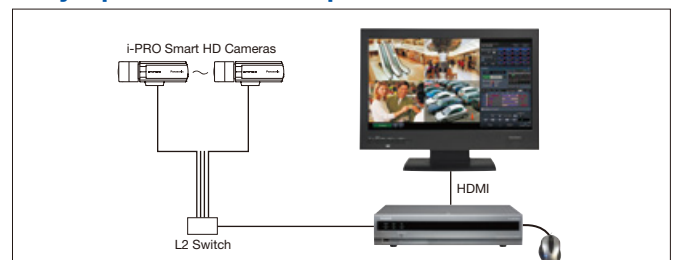
\* The CD-ROM contains the operating instructions (PDFs).

### Additional Kit

Additional Business Intelligence Kit  
WJ-NVF20



### Easy Operation and Setup without PC



## Specifications

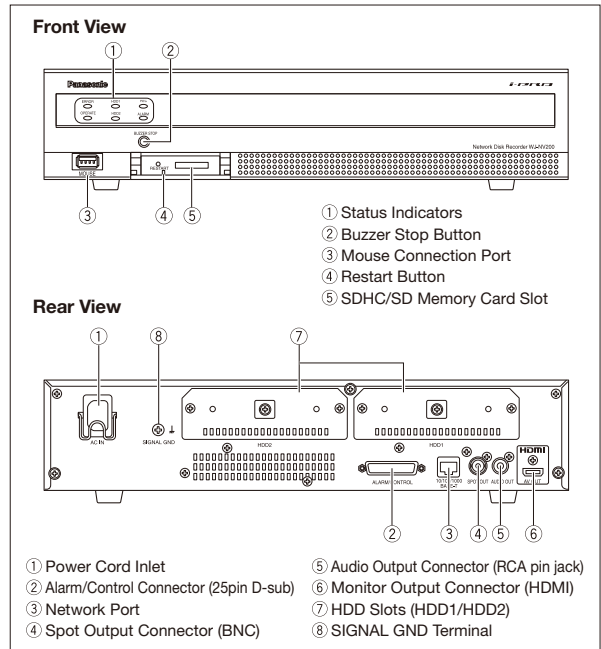
TV System	PAL
<b>Supported Cameras</b>	Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera
<b>Supported Image Format</b>	H.264, MPEG-4, MJPEG
<b>Supported Image Resolution</b>	Aspect ratio [4:3]: SXVGA (1,280 x 960), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240) Aspect ratio [16:9]: 1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180 * Depending on the camera
<b>Supported Audio Format</b>	G.726 (ADPCM) 32 kbps
<b>Maximum Number of Cameras</b>	16
<b>Recording</b>	Event, Schedule
<b>Pre-alarm Recording</b>	Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution)
<b>Scheduled Recording Mode</b>	2 programs, 3 time zones/day, Independent setup for each day of the week
<b>Frame Rate/Camera</b>	Up to 30 ips (Depending on the Camera)
<b>Main Unit Functions</b>	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus
<b>Multiscreen Mode</b>	4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen
<b>Playback Control</b>	PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)
<b>Search Mode</b>	Search criteria: Time date, Playback by designating a timeline, VMD
<b>Copy</b>	Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.
<b>Camera Title</b>	Up to 14 characters
<b>Clock Display</b>	Time: 12H/24H, Date: 5 formats
<b>Digital Zoom</b>	Live: 2x, 4x, 8x (only for 1-screen or 4-screen) Play: 2x, 4x, 8x
<b>System Log</b>	Operator access (100), Network error (100), Error (1,000), Event (750)
<b>System Setup</b>	Setup page in English, French, Italian, Spanish, German, Russian, Japanese
<b>Browser GUI</b>	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset
<b>Playback Control</b>	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)
<b>Search Mode</b>	Search criteria: Time date, Event type, VMD, Camera number
<b>Display Mode</b>	1 / 4 screen
<b>Image Download</b>	Recorded data of selected camera and time range can be downloaded to a PC. Viewer software can be downloaded separately.
<b>Copy</b>	Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.
<b>Camera Title</b>	Up to 14 characters
<b>Clock Display</b>	On the browser. Time: 12H/24H, Date: 5 formats
<b>Digital Zoom</b>	Live/Play: 2x, 4x (only for 1-screen)
<b>System Log</b>	Operator access (100), Network error (100), Error (1,000), Event (750)
<b>GUI Language</b>	English, French, Italian, Spanish, German, Russian, Japanese
<b>Supported OS</b>	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
<b>Supported Browser</b>	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)
<b>Required PC</b>	MJPEG/MPEG-4 H.264 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 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 Alarm Alarm input 1 - 9*1, Alarm output*2, Alarm reset input*1 Connector Control Time adjustment input*1, +5 V output*3 (25pin D-sub) Error/ Network error output*2, HDD error output*2, Camera error output*2, Warning Recorder error output*2, Recording error output*2 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
<b>Other Functions</b>	Time Synchronization Terminal (Slave), NTP (Server/Client) Summer Time User definable (using menu setup)
<b>HDD</b>	Type 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.
<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 CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558) Power Source 220 ~ 240 V AC, 50 Hz/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.

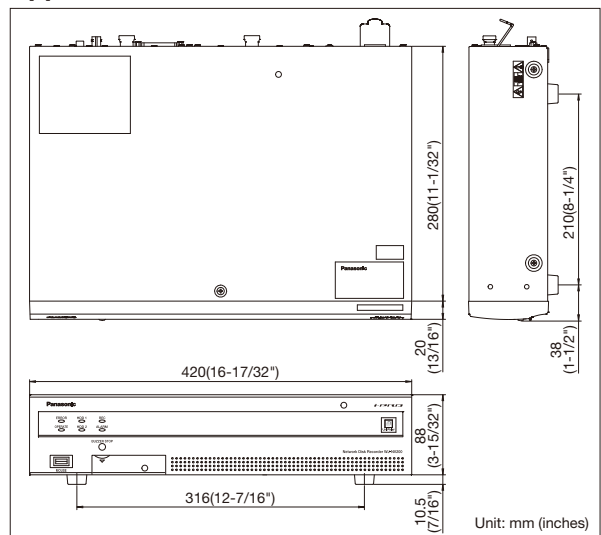
TV System	PAL
<b>General Specifications</b>	Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F) Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F)
<b>Ambient Operating Temperature</b>	5 % ~ 90 % (without condensation)
<b>Ambient Operating Humidity</b>	2,000 m (6,562 feet) above sea level
<b>Maximum Operating Altitude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

- \*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



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### 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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