



Video Decoder built-in 16ch Network Disk Recorder with Face Matching capability

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
- ECO-friendly automatic back light control of the wide LCD monitors, WV-LW1900/WV-LW2200 (Saves power consumption to 30 % ~ 60 % during normal use)
- Real Time Face Matching function by matching registered face images with a face displayed on live images
* Only channel 1 * Cameras supporting face detection function is required. (WV-NP502, WV-SP305, or WV-SP306 is recommended.)
- Face matching alarm is notified by Buzzer / E-mail / Panasonic alarm / Terminal output / Indicator.
- 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 / 6 / 9 / 16 split screen display on a full screen)
- Various Recording Modes: Schedule, Event (Pre/Post)
- Filtered Search: Time & Date, Event Type, Camera number, Timeline

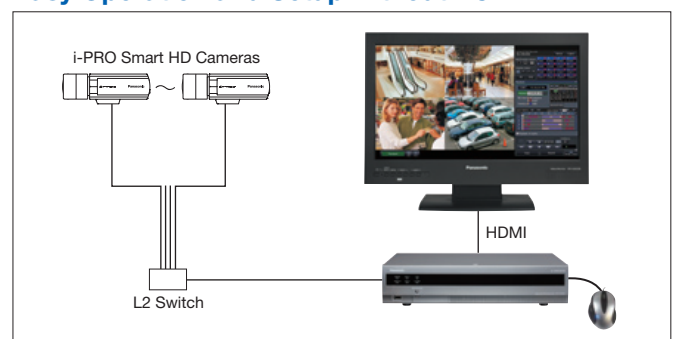
- Recorded images can be downloaded to a PC.
- Downloadable viewer software allows playback of images downloaded from the Recorder.
- Built-in network interface (10Base-T / 100Base-TX / 1000Base-T) for recording and client access
- Up to 2 clients can monitor image and control WJ-NV200 simultaneously.
- 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-ASM100 i-PRO Management Software.
- Plan to support ONVIF in early 2011

Standard Accessories

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

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

Easy Operation and Setup without PC



Specifications

TV System	NTSC	PAL
Supported Cameras	Panasonic i-PRO series Network cameras (Contact Panasonic for Axis® cameras)	
Supported Image Format	H.264, MPEG-4, M-JPEG	
Supported Image Resolution	SXVGA (1,280 x 960), VGA (640 x 480), QVGA (320 x 240) (Depending on the camera)	
Supported Audio Format	G.726 (ADPCM) 32 kbps	
Maximum Number of Cameras	16	
Recording	Recording Mode Event, Schedule Pre-alarm Recording Up to 15 seconds 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)	
Main Unit Functions	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 / 6 / 9 / 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	
Browser GUI	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 and Browser Combination Microsoft® Windows® 7 Professional 64 bit/32 bit & Windows® Internet Explorer® 8.0, Microsoft® Windows Vista® Business SP1 32 bit & Windows® Internet Explorer® 7.0 The language of OS must be the same as selected GUI language. Required PC M-JPEG/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	
Alarm/Event	Alarm Source 9x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol Face Matching Off / On 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	
Input / Output	Spot Output Connector 1x 1 V [p-p] / 75 Ω (BNC) Monitor (HDMI) Connector 1x HDMI Audio Output Connector 1x -10 dBV, 600 Ω, Unbalanced (RCA) Alarm/Control Connector Alarm input 1 ~ 9 ¹ , Alarm output ² , Alarm reset input ¹ , Face matching output ² Control (25pin D-sub) Time adjustment input ¹ , +5 V output ³ Error/Warning Network error output ² , HDD error output ² , Camera error output ² , 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)	
Network	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 2 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) Summer Time User definable (using menu setup)	
HDD	Type 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.	
Viewer Software	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	
General Specifications	Safety/EMC Standard UL (UL60065), FCC (Part15 ClassA), CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558) C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA) Power Source 120 V AC, 60 Hz 220 ~ 240 V AC, 50 Hz/60 Hz Power Consumption approx. 45 W	

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- 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.
- UniPhier is a registered trademark of Panasonic Corporation.
- "Super Dynamic", "SDII", "SDIII", "SD5", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.

Important

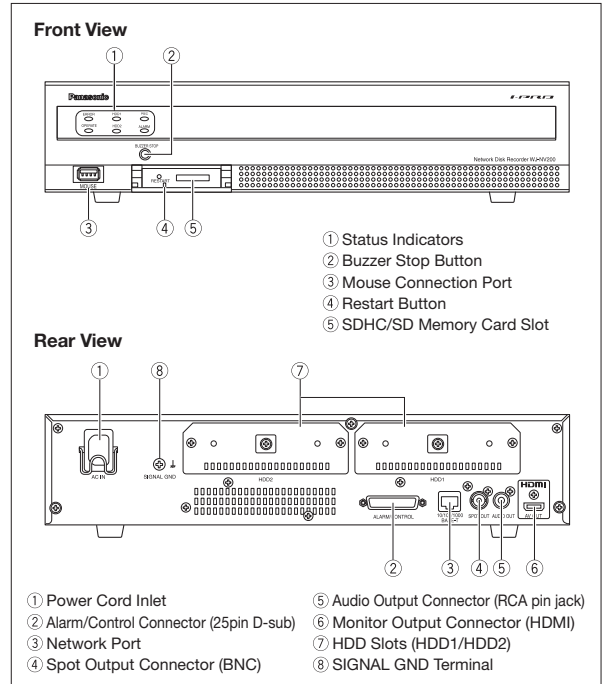
- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

TV System	NTSC	PAL
General Specifications	Ambient Operating Temperature Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F) Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F) Ambient Operating Humidity 5 % ~ 90 % (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) (16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D)) (excluding rubber feet and projections) 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	

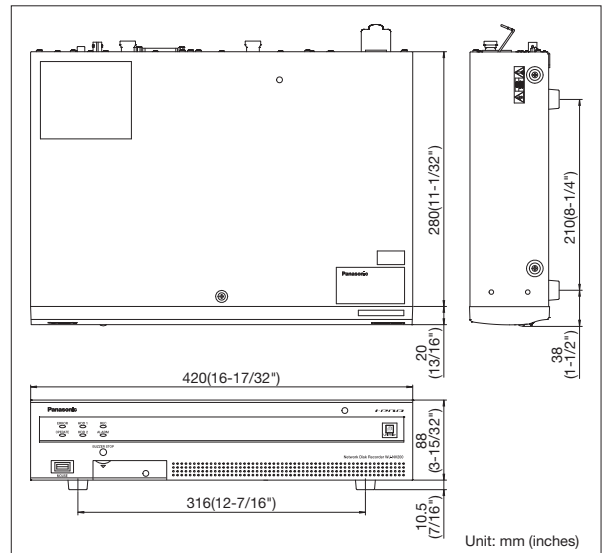
*1: Non-voltage make contact input, 50 kΩ +5 V DC pull-up

*2: Open collector output, 24 V DC, 100 mA max. *3: 200 mA max.

Part Names and Functions



Appearance



- 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.

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Panasonic

<http://panasonic.net/security/>

Printed in Japan (2A-064CL)



Video Decoder built-in 32ch*1 Network Disk Recorder


Key Features

- H.264 and JPEG multi format
- 16 network cameras can be connected and recorded as default. Up to 32*1 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 32*1 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, 32x 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: Go to Date (Jump to specific time/date), Go to Last (Jump to 30 s before the record end)
- Various Display Modes: Spot, Multiscreen (4 / 16 split screen display, 4 / 6 / 9 / 12 / 16 / 24 / 32*1 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.
- Equipped with a SD memory card slot and USB memory I / F. It realizes a simple local copy.
- Built-in network interface (10Base-T / 100Base-TX / 1000Base-T) for recording and client access
- Up to 8 clients can monitor image and control WJ-NV300 simultaneously.
- Up to 2 HDDs can be installed. (8.89 cm (3.5 inch) Serial ATA HDD)
- HDD capacity is expandable up to 20 HDD slots (2 HDD slots in the main unit and 2 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots).
- RAID5/6 redundant recording for data security (with WJ-HDE400)

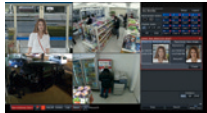

- User authentication, 3 user levels and User level - Camera partitioning setup for user management of up to 16 user registrations
- Multi-recorder, Multi-site system can be made with optional WV-ASM200 i-PRO Management Software.
- ONVIF client, conformance to ONVIF Profile S.

*1 Two Additional Camera Kits WJ-NVE30 are necessary.

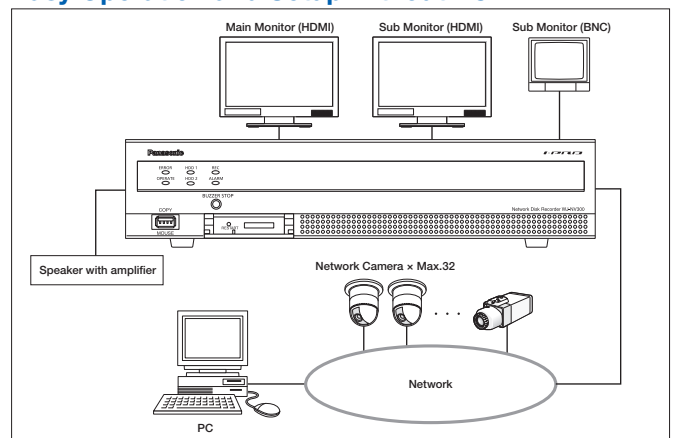
Optional Accessory

Hard Disk Extension Unit WJ-HDE400 	Power Source : 120 V AC, 60 Hz (NTSC)
	Power Consumption: approx. 130 W
Dimensions 430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections)	Weight : 13.5 kg (29.8 lbs.) (When no HDD exist) 20 kg (44.15 lbs.) (When 9 HDDs are installed)

Additional Kit

Additional Camera Kit WJ-NVE30	Additional Business Intelligence Kit WJ-NVF30
	

Easy Operation and Setup without PC



Specifications

TV System	NTSC
Supported Cameras	Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera
Supported Image Format	H.264, MJPEG
Supported Image Resolution	Aspect ratio [4:3] : QXGA (2048x1536), 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
Supported Audio Format	G.726 (ADPCM) 32 kbps
Maximum Number of Cameras	MAX. 32 ¹⁾ (Default Number of Cameras : 16)
Recording	Event, Schedule
Recording Mode	Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution and up to 5 seconds at QXGA)
Pre-alarm Recording	4 programs, 3 time zones/day, Independent setup for each day of the week
Scheduled Recording Mode	Up to 60fps (Depending on the Camera)
Frame Rate/Camera	
Main Unit Functions	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus
Camera Control	
Multiscreen Mode	MainMonitor 4/16 split screen display, 4/6/9/12/16/24/32* split screen display on a full screen (*24-/32-multiscreen is available when sub monitor isn't on.) SubMonitor 1 screen sequence / 4 split screen sequence / 9(16) split screen display
Playback Control	PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Go to Date, Go to 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 and USB media.
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, Portuguese, Japanese
360 Camera Dewarp	Only 1ch display mode.
re-encoding	1Client
Real Time Face Matching	Camera 1Ch, 100 registered face images
Browser GUI	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset
Camera Control	
Playback Control	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Go to Date, Go to 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.
SD Memory Data Download	N/A
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
Alarm Control	Reset
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, Portuguese, Japanese
Supported OS	Microsoft® Windows® 8.1, Microsoft® Windows® 7, Microsoft® Windows Vista®.
Supported Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit)
Required PC	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
Alarm/Event	9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms
Alarm Source	
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
Input / Output	
Spot Output Connector	1x 1 V [p-p] / 75 Ω (BNC)
Monitor (HDMI) Connector	2x HDMI 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz, 1920x1080i /50Hz, 720x576p /50Hz, 720x480p /60Hz
Audio Output Connector	1x -10 dBv, 600 Ω, Unbalanced (RCA)
Alarm / Control Connector / D-sub 25pin	Alarm input 1 - 9 ²⁾ , Alarm output ³⁾ , Alarm reset input ²⁾ Time adjustment input ²⁾ , +5 V output ⁴⁾ Network error output ³⁾ , HDD error output ³⁾ , Camera error output ³⁾ , Recorder error output ³⁾ , Recording error output ³⁾
Mouse Connection Port	1x
Network Port	2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)
USB Memory	Only USB2.0 Memory
SDHC/SD Memory Card Slot	SDHC/SD memory cards applicable (miniSD cards and microSD cards not applicable)
External Storage	2x HDE400
Network	
Network Interface	2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)
Maximum Recording Rate	128 Mbps or less
Maximum Band Width	Total 160 Mbps or less
Supported Protocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, RTP
E-mail	Upon Alarm or Warning
FTP Client	1
No. of Simultaneous Users	8 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

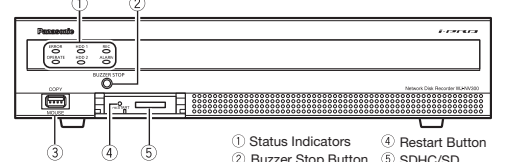
- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
- All product pictures are NTSC models.

TV System	NTSC
Other	Time Synchronization Terminal (Slave), NTP (Server/Client)
Functions	Summer Time User definable (using menu setup)
	Remote Monitoring on Smartphone/Tablet 1Client *Panasonic Security Viewer v.2.1 or later is required on smartphone/tablet PC.
HDD	Type WU-NV300 8.89 cm (3.5 inch) Serial ATA HDD. Up to 2x HDDs can be installed. Maximum Capacity 4TB ⁵⁾ RAID Single, RAID1, 5*, 6*, 6*
Viewer	Playback Control Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image
Software	Additional Functions Alteration detection, Save as JPEG, Two times zoom, Print, Copy Supported OS, Language Language of the software will be English
General Specifications	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. 55 W (with 4TBHDDx2) Ambient Operating Temperature Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F) Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F) Ambient Operating Humidity 5 % ~ 90 % (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) (16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D)) (excluding rubber feet and projections) Mass (approx.) 5.3 kg (11.70 lbs.) without HDD 6.0 kg (13.25 lbs.) with 1 HDD, 6.7 kg (14.79 lbs.) with 2 HDDs

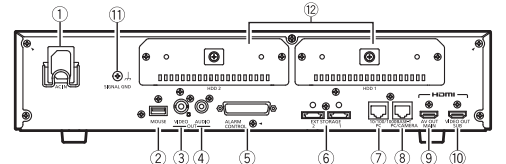
- *1: Two Additional Camera Kits WJ-NVE30 are necessary. *2: Non-voltage make contact input, 50 kΩ +5 V DC pull-up
- *3: Open collector output, 24 V DC, 100 mA max. *4: 200 mA max. *5: Please check the following URL for the latest information.
- < <http://security.panasonic.com/pss/security/library/library.html> > *6: Hard Disk Extension Unit WJ-HDE400 is necessary.

Part Names and Functions

Front View

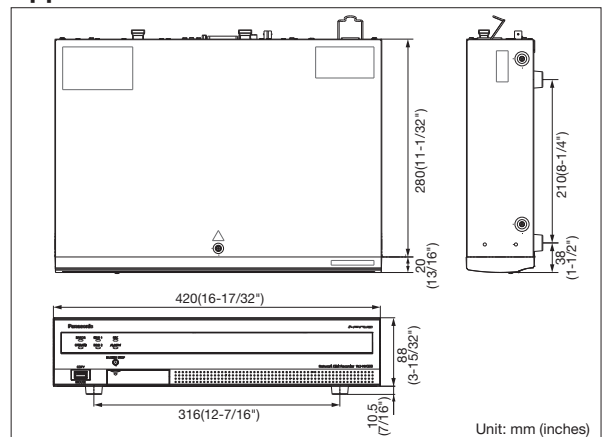


Rear View



- ① Power Cord Inlet
- ② Mouse Connection Port
- ③ Spot Output Connector (BNC)
- ④ Audio Output Connector (RCA pin jack)
- ⑤ Alarm/Control Connector (25pin D-sub)
- ⑥ External Storage Connector
- ⑦ Network Port (PC)
- ⑧ Network Port (Camera / PC)
- ⑨ Main Monitor Output Connector (HDMI)
- ⑩ Sub Monitor Output Connector (HDMI)
- ⑪ SIGNAL GND Terminal
- ⑫ HDD Slots (HDD1/HDD2)

Appearance



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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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