# 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**
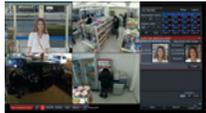
Easy Operation and Setup without PC
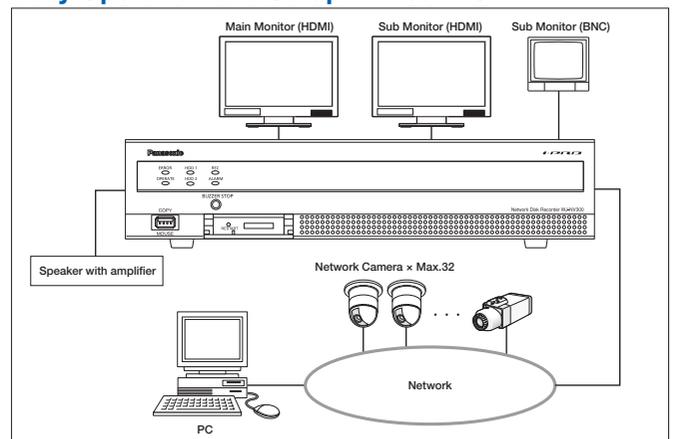
Specifications

TV System		NTSC
Supported Cameras	Compatible vendor	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	Recording Mode	Event, Schedule
	Pre-alarm Recording	Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution and up to 5 seconds at QXGA)
	Scheduled Recording Mode	4 programs, 3 time zones/day, Independent setup for each day of the week
	Frame Rate/Camera	Up to 60ips (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	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	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, 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	Alarm Source	9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms
	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	Alarm input 1 ~ 9*2, Alarm output*3, Alarm reset input*2
		Control	Time adjustment input*2, +5 V output*4
		Error/ Warning	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 Functions	Time Synchronization	Terminal (Slave), NTP (Server/Client)
	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	WJ-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*6
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	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

① Status Indicators   ④ Restart Button
② Buzzer Stop Button   ⑤ SDHC/SD
③ Copy Port   Memory Card Slot
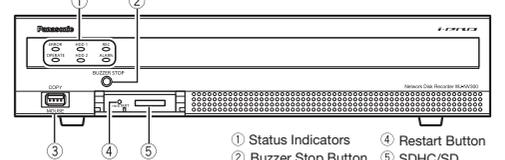
Rear View
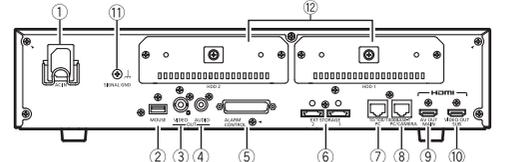
① Power Cord Inlet   ⑦ Network Port (PC)
② Mouse Connection Port   ⑧ Network Port (Camera / PC)
③ Spot Output Connector (BNC)   ⑨ Main Monitor Output Connector(HDMI)
④ Audio Output Connector (RCA pin jack) ⑩ Sub Monitor Output Connector(HDMI)
⑤ Alarm/Control Connector (25pin D-sub) ⑪ SIGNAL GND Terminal
⑥ External Storage Connector   ⑫ HDD Slots (HDD1/HDD2)

Appearance

Unit: mm (inches)
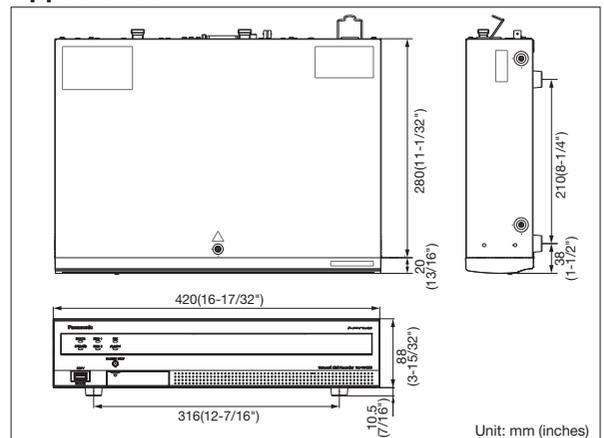
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