

WJ-NX300

H.265/H.264 Embedded recorder

Network Recorder



- Secure & High Compression Recording
- PC-less non-VMS surveillance solution
- Scalable storage
- High reliability and high efficiency data reading/writing



SPECIFICATIONS

Supported Camera	
Compatible Vendor	Panasonic i-PRO series Network cameras, ONVIF NVT conformant camera and encoder
Supported Image Format	H.265 (HEVC), H.264, JPEG
Supported Image Resolution	<ul style="list-style-type: none"> •Aspect ratio [4 : 3] 4000x3000, 2560x1920, 2048x1536, 1280x960, 800x600, 640x480 •Aspect ratio [16 : 9] 3840x2160, 2560x1440, 1920x1080, 1280x720, 640x360 •Aspect ratio [1 : 1] 2992x2992, 2816x2816, 2048x2048, 1280x1280 •Aspect ratio [9 : 16] 1080x1920, 720x1280, 360x640
Supported Audio Format	G.711 for Onvif, G.726 (ADPCM) 32 kbps, AAC-LC
Maximum Number of Cameras	MAX. 32* (Default number of cameras : 16) * Two Additional Camera Kits WJ-NXE30 are necessary.

Recording	
Recording Mode	Event, Schedule, Emergency
Pre-Alarm Recording	Up to 15 seconds *When the delivery speed from the network camera is less than 4 Mbps.
Sub-Stream Recording	64 / 128 / 256 / 384 / 512 / 768 kbps
Scheduled Recording Mode	16 programs, 6 time zones/day, Independent setup for each day of the week
Frame Rate/Camera	Up to 60 fps (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, Aux, Wiper (for WV-SUD638)
Multiscreen Mode	<p>[Main monitor]</p> <ul style="list-style-type: none"> • Control screen 4 / 9 / 16 split screen display • Wide view screen 2 / 3 / 4 / 5 / 6 / 7 / 9 / 12 / 16 / 24 / 32 split screen display, 1 screen sequence, 4 / 9 / 16 split screen sequence <p>[Sub monitor]</p> <p>1 / 4 / 9 / 16 / 24 / 32 split screen display, 1 screen sequence, 4 / 9 / 16 split screen sequence</p>
Playback Control	Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image
Search Mode	Search criteria : Time date, Playback by designating a timeline, VMD, Thumbnail
Copy	File Format: Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage.
Camera Title	Up to 16 Characters
Clock Display	Time : 12H/24H, Date : 5 formats
Digital Zoom	Live / Play: 1.25x 1.5x 1.75x, 2x, 2.5x, 3x, 3.5x 4x, 5x, 6x, 7x, 8x (only for 1-screen or 4-screen)
System Log	Operator access (500), Network error (100), Error (1,000), Event (1000), Operation (500)
System Setup Language	Setup page in English, French, Italian, Spanish, German, Russian, Portuguese, Thai, Simplified Chinese, Japanese

360 Camera Dewarp	Only 1ch display mode.
Re-Encoding	2Client
SD Memory Data Download	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H.265/H.264)
User Registration	Up to 32 users
User Level	3 Levels (Programmable)
Partitioning	User level - Camera (View & Control, No Access)
Security Method	User authentication (ID and Password), Host authentication, Alteration detection, SSL/TLS

Web Browser

Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638)
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, Event type, VMD, Camera number
Display Mode	1 / 4 screen
Image Download	File Format: Original Format / MP4 Recorded data of selected camera and time range can be downloaded to a PC. Viewer software can be downloaded separately.
Copy	File Format: Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage.
Camera Title	Up to 16 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 (500), Network error (100), Error (1,000), Event (1000), Operation (500)
GUI Language	Setup page in English, French, Italian, Spanish, German, Russian, Portuguese, Thai, Simplified Chinese, Japanese
Required PC	CPU: Intel® Core™ i7-860 or faster, RAM : 4 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	1000

Input/Output

Spot Output Connector	1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)
Monitor (HDMI) Connector	[Main monitor] HDMI 4K UHD(3840x2160p) /30Hz, 4K UHD(3840x2160p) /25Hz, 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz,1920x1080i /50Hz [Sub monitor] HDMI 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz,1920x1080i /50Hz
Audio Output Connector	-10 dBv, 600 Ω, unbalanced ×1 (RCA pin jack)

Alarm / Control Terminal	[Alarm] Alarm input 1 - 9*, Alarm output**, Alarm reset input* [Control] Time adjustment input/output*, +5 V output***, Emergency recording input [Error/Warning] Network error output**, HDD error / Recording error output**, Camera error output**, Recorder error output** * Non-voltage make contact input, +3.3 V pull-up Approx. 23 k Ω ** Open collector output, 24 V DC, -200 mA max. *** +5V \pm 0.5 V 200 mA max.
Mouse Connection Port	2 (Front 1, Rear 1)
Camera/PC Network Port	2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)
USB Storage	USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device)
External Storage	2x WJ-HXE400

Network

Maximum Recording Rate	256 Mbps or less
Maximum Band Width	Total 512 Mbps or less
Supported Protocol	IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARP IPv6: ICMPv6
E-mail	Upon Alarm or Warning
No. of Simultaneous Users	16 or less

Other Functions

Time Synchronization	Terminal (Master/Slave), NTP (Server/Client)
Summer Time	User definable (using menu setup)
Remote Monitoring on Smartphone/Tablet	16 clients or less

HDD

HDD	8.89 cm (3.5 inch) Serial ATA HDD, Up to 4x HDDs can be installed.
Maximum Capacity	22 HDD slots (with 2x WJ-HXE400 Extension Units, 9x HDDs installed in a extension unit) Up to 6 TB will be supported.
RAID (Hardware RAID)	RAID 1, 5, 6

Viewer Software

Playback Control	PLAY, Rev PLAY, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image
Additional Functions	[NX Viewer] Alteration detection, Save as JPEG, Two times zoom, Print, Copy, Aspect ratio switching, fish eye correction, corridor display
Supported OS, Language	Language of the software will be English or Japanese

General

Safety/EMC Standard	WJ-NX300K/G (220 - 240 V AC) : CE (EN60065, EN55032 ClassB, EN55024), EAC WJ-NX300K (120 V AC) : cUL (UL60065), FCC Part15 ClassA
Power Source	WJ-NX300K/G (220 - 240 V AC) : 220 V-240 V AC 50 Hz/60 Hz WJ-NX300K (120 V AC) : 120 V AC 50 Hz/60 Hz
Power Consumption	approx. 72 W
Ambient Operating Temperature	Main body : +5 $^{\circ}$ C to +45 $^{\circ}$ C (41 $^{\circ}$ F to 113 $^{\circ}$ F), Mouse (provided) : +5 $^{\circ}$ C to +40 $^{\circ}$ C (41 $^{\circ}$ F to 104 $^{\circ}$ F)
Ambient Operating Humidity	5 % to 90 % (without condensation)

Maximum Operating Altitude	2,000 m (6,562 feet) above sea level
Dimensions	420 mm(W)×88 mm(H)×370 mm(D) (From Rack Mount Bracket 350 mm) {16-9/16 inches(W)×3-7/16 inches(H)×14-9/16 inches (D)}(From Rack Mount Bracket (13-13/16")) (excluding rubber feet and projections)
Mass (Approx.)	When no HDD is installed: 7.0 kg {15.4 lbs}

OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\)](http://i-pro.com).



WV-Q202
Mount Bracket



WJ-HXE400
Extension Unit