WJ-NX400

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	i-PRO series Network cameras, ONVIF NVT conformant camera and encoder
Supported Image Format	H.265(HEVC), H.264, JPEG
Supported Image Resolution	・Aspect ratio [4 : 3] 4,000x3,000, 2,560x1,920, 2,048x1,536, 1,280x960, 800x600, 640x480 ・Aspect ratio [16 : 9] 3,840x2,160, 2,560x1,440, 1,920x1,080, 1,280x720, 640x360 ・Aspect ratio [1 : 1] 2,992x2,992, 2,816x2,816, 2,048x2,048, 1,280x1,280 ・Aspect ratio [9 : 16] 1080x1920, 720x1280, 360x640
Supported Audio Format	G.711 for Onvif, G.726 (ADPCM) 32 kbps
Maximum Number of Cameras	MAX. 128 (Default number of cameras : 64)

Recording	
Recording Mode	Event, Schedule, Emergency
Pre-Alarm Recording	Up to 15 seconds *When the delivery speed from the network camera is less than 3 Mbps.
Sub-Stream Recording	768 kbps (fixed data size)
Scheduled Recording Mode	16 programs, 3 time zones/day, Independent setup for each day of the week
Frame Rate/Camera	Up to 60 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, Aux, Wiper (for WV-SUD638)
Multiscreen Mode	[Main monitor] ・Control screen 4 / 9 / 16 split screen display ・Wide view screen 3 / 4 / 6 / 9 / 12 / 16 / 24 / 32 / 64 split screen display, 1 screen sequence, 4 / 9 / 16 split screen sequence [Sub monitor] 9 / 16 / 32 split screen display, 1 screen sequence, 4 / 9 / 16 split screen sequence
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	Recorded data of selected cameras and time date range can be copied to the USB storage.
Camera Title	Up to 16 Characters
Clock Display	Time : 12H/24H, Date : 5 formats
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)
360 Camera Dewarp	Only 1ch display mode
Re-Encoding	2Client *Only when 64 ch mode
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	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H.265/H.264)
GUI Language	Setup page in English, French, Italian, Spanish, German, Russian, Portuguese, Thai, Simplified Chinese, Japanese

Required PC	CPU : IntelR Core. i7-860 or faster , RAM : 4 GB or more, VRAM : 128 MB or more (Min. 64 MB), MicrosoftR DirectXR 9.0c or later
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

Alarm/Event

Alarm Source	32x Terminal inputs, 128x Camera alarms (i-PRO Alarm Protocol), 128x Command alarms
Event Mode	Off / On
Alarm Action	Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, i-PRO alarm protocol output, Buzzer, Indicator
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, 720x576p /50Hz, 720x480p /60Hz [Sub monitor] HDMI 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz, 1920x1080i /50Hz, 720x576p /50Hz, 720x480p /60Hz
Audio Output Connector	-10 dBv, 600 Ω, unbalanced x1 (RCA pin jack)
Alarm IO	Alarm input 1 - 32, Alarm output, Alarm reset input 1 – 4
Control IO	Time adjustment input, 2x +5 V output
Error/Warning IO	Network error output, HDD error output, Camera error output, Recorder error output, Recording error output, Emergency recording input, Outage detection input, External recording mode switching input, Outage processing end output
Mouse Connection Port	2 (Front 1, Rear 1)
Camera/PC Network Port	2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)
Maintenance Network Port	1x 10BASE-T / 100BASE-TX (RJ45)
USB Storage	USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device)
External Storage	5x WJ-HXE400

Network

Maximum Recording Rate	384 Mbps or less
Maximum Band Width	Total 640 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 (Slave), NTP (Server/Client)
Summer Time	User definable (using menu setup)
Remote Monitoring on Smartphone/Tablet	2Client

HDD

HDD	8.89 cm (3.5 inch) Serial ATA HDD, Up to 9x HDDs can be installed.

Maximum Capacity	54 HDD slots (with 5x WJ-HXE400 Extension Units, 9x HDDs installed in each unit) Up to 6 TB will be supported.
RAID (Hardware RAID)	Single, RAID1, 5, 6

Viewer Software	
Additional Functions	Alteration detection, Save as JPEG, Two times zoom, Print, Copy
Supported OS, Language	Language of the software will be English or Japanese

General	
Safety/EMC Standard	WJ-NX400K : UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065),DOC (ICES003 ClassA) WJ-NX400K/G : CE (EN60065, EN55032 ClassB, EN55024), EAC
Power Source	WJ-NX400K : 120 V AC 60 Hz / WJ-NX400K/G : 220 V - 240 V AC 50 Hz/60 Hz
Power Consumption	approx. 125 W (with 6 TB HDD x9)
Ambient Operating Temperature	Main body : +5 ℃ to +45 ℃ (41 °F to 113 °F) Mouse (provided) : +5 ℃ to +40 ℃ (41 °F to 104 °F)
Ambient Operating Humidity	5 % to 90 % (without condensation)
Maximum Operating Altitude	2,000 m (6,562 feet) above sea level
Dimensions	430 mm (W) x 132 mm (H) x 400 mm (D) {16-15/16 inches (W) x 5-3/16 inches (H) x 5-12/16 inches (D)}
Mass (Approx.)	When no HDD is installed : 11.5 kg {25.4 lbs} / When 9 HDDs aer installed : 20 kg {44.1 lbs}

OPTIONAL ACCESSORIES

Select a compatible accessory
[Accessory Selector (i-pro.com)](https://i-pro.com)

WJ-HXE400
Extension Unit