

WJ-NX400K (120 V AC) WJ-NX400K/G (220 - 240 V AC)

TURBO-RAID System Recorder

H.265/H.264 high-throughput and scalable embedded recorder featuring integrated GUI and robust embedded IP security enabling a secure end-to-end PC-less surveillance solution for mission-critical applications. Support full data encryption streaming recording for all i-PRO cameras which comply to FIPS 140-2 CAVT* to keep your video secured from spoofing and snooping activities. *Using encryption module standardized by FIPS publication 140-2

Secure high bandwidth recording

- 64 ch. expandable to 128 ch. camera input. Support H.265 / H.264 mixed recordings.
- 640 Mbps total through put (including 384 Mbps recording bandwidth)
- Pre-installed device certificates *Secure Communication Kits are necessary.

PC-less non VMS surveillance solution

- No camera license fees with a default number of cameras; no annual license updates required.
- Built-in GUI and Dual HDMI (4K/FHD) outputs
- Automatic camera configuration
- Sub-stream recording for mobile access and low bandwidth system environments

Scalable storage

- (9) integrated drive-bays RAID 1 / 5 / 6
- External storage expansion up to 432 TB

High reliability and redundancy

- Dynamic HDD power management increases HDD life
- Redundant fail-over using 2nd recorder to enable mission-critical recording*
- NVR backup important data to NAS devices.*
- TURBO-RAID for quick RAID recovery without sacrificing recording bandwidth and performance

 * KMS registration is necessary for activation.

Industry examples

- Public safety (City / Road / Highway / Port)
- Transportation (Airport / Train / Subway)
- Bank / Retail
- Hospital / Education
- Casino / Stadium
- Factory







*ONVIF is a trademark of ONVIF, Inc.

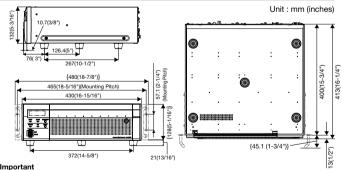


Specifications

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] 4000x3000, 3072x2304, 2560x1920, 2048x1536, 1600x1200, 1280x960, 800x600, 640x48		
	•Aspect ratio[16:9] 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720, 640x360		
, , ,	•Aspect ratio[1:1] 2992x2992, 2816x2816, 2192x2192, 2048x2048, 1280x1280		
	•Aspect ratio[9:16] 2160x3840, 1728x3072, 1440x2560, 1080x1920, 720x1280, 360x640		
Supported Audio Format	G.711 for Onvif, G.726 (ADPCM) 32 kbps, AAC-LC		
	MAX. 128 ^{*1} (Default number of cameras : 64)		
	Event, Schedule, Emergency		
Pre-alarm Recording	Up to 15 seconds "When the delivery speed from the network camera is less than 3 Mbp		
	64 / 128 / 256 / 384 / 512 / 768 kbps		
Scheduled Recording Mode			
	Up to 60 ips (Depending on the camera)		
	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 2 / 3 / 4 / 5 / 6 / 7 / 9 / 12 / 16 / 24 / 32 split screen display,		
	1 screen sequence, 4 / 9 / 16 split screen sequence		
	[Sub monitor]		
	1 / 4 / 9 / 16 / 32 split screen display,		
	1 screen sequence, 4 / 9 / 16 split screen sequence		
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), Time-saving playback		
Search Mode	Search criteria : Time date, Playback by designating a timeline, VMD, Thumbnail		
	File Format : Original Format / MP4		
000)	Recorded data of selected cameras and time date range can be copied to USB storage		
Camera Title	Up to 16 Characters		
	Time : 12H/24H, Date : 5 formats		
	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		
-	Operator access (500), Network error (100), Error (1,000), Event (1000), Operation (500)		
	Setup page in English, French, Italian, Spanish, German, Russian,		
-)	Portuguese, Thai, Simplified Chinese, Traditional Chinese, Japanese		
360 Camera Dewarn	Only 1ch display mode.		
	2Client *Only when 64 ch mode		
<u> </u>	Images recorded in the SD card in the i-PRO series cameras can be		
OD Memory Data Download	transferred to the recorder automatically. (H.265/H.264)		
Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)		
Carriera Control			
	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638)		
Playback Control	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record		
Playback Control	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for W-SUD638 REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record Prev Image, Next Image, Go to Date, Go to Last (30 s)		
Playback Control Search Mode	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) 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 criteria : Time date, Event type, VMD, Camera number		
Playback Control Search Mode Display Mode	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen		
Playback Control Search Mode	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen File Format : Original Format / MP4		
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Playback Control Search Mode Display Mode Image Download	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen File Format : Original Format / MP4 Recorded date of selected camera and time range can be downloaded to a PC Viewer software can be downloaded separately.		
Playback Control Search Mode Display Mode	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4		
Playback Control Search Mode Display Mode Image Download Copy	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638) REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record Prev Image, Next Image, Go to Dates (30 s) Search criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected camera and time date range can be copied to USB storage		
Playback Control Search Mode Display Mode Image Download Copy Camera Title	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Carmera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage Up to 16 characters		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display Alarm Control	Auto mode, Click centering, Wheel zoom, Zoom reset, Aux, Wiper (for WV-SUD638 REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record Prev Image, Next Image, Go to Dates (30 s) Search criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats Reset		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display Alarm Control Digital Zoom	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Carmera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected cameras and time date range can be copied to USB storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats Reset Live/Play : 2x, 4x (only for 1-screen)		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display Alarm Control Digital Zoom System Log	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected camera and time date range can be copied to USB storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats Reset Live/Play : 2x, 4x (only for 1-screen) Operator access (500), Network error (100), Error (1.000), Event (1000), Operation (500		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display Alarm Control Digital Zoom	Auto mode, Click centering, Wheel zoom, Zoom reset, Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected camera and time date range can be copied to US8 storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats Reset Live/Play : 2x, 4x (only for 1-screen) Operator access (500), Network error (100), Event (1000), Operation (500		
Playback Control Search Mode Display Mode Image Download Copy Camera Title Clock Display Alarm Control Digital Zoom System Log	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638 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 criteria : Time date, Event type, VMD, Camera number 1 / 4 screen 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. File Format : Original Format / MP4 Recorded data of selected camera and time date range can be copied to USB storage Up to 16 characters On the browser. Time : 12H/24H, Date : 5 formats Reset Live/Play : 2x, 4x (only for 1-screen) Operator access (500), Network error (100), Error (1.000), Event (1000), Operation (500		
	Supported Image Format Supported Image Resolution (Depending on the camera) Supported Audio Format Maximum Number of Cameras Recording Mode Pre-alarm Recording Sub-stream Recording Sub-stream Recording Mode Frame Rate/Camera Camera Control Multiscreen Mode Playback Control Search Mode Copy Camera Title Clock Display Digital Zoom System Log System Log System Setup 360 Camera Dewarp re-encoding SD Memory Data Download		

Two Additional Camera Kit WJ-NXE40W are necessary.
To Additional Camera Kit WJ-NXE40W are necessary.
To Ano-voltage make contact input
Open collector output, 24 V DC, -200 mA max.
F Pass check the following URL for the latest information. (https://i.pro.com/global/ev/surveillance/training-support/documentation-database-list)
I-PRO Mobile APP is required on smartphone/tablet PC.

Appearance



Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.

- i-PRO Co., Ltd. cannot be held responsible for the performance

of the network and/or other manufacturers' products used on the network.

Alarm/	Alarm Source		32x Terminal inputs, 128x Camera alarms (TCP alarm notification),		
Event			128x Command alarms		
	Event Mode		Off / On		
	Alarm Action		Alarm recording, e-mail notification, Alarm message, Camera positioning,		
			Terminal output, TCP alarm notification output, Buzzer, Indicator		
	Alarm Control		Reset		
	Event log		1000		
Input /	Spot Output Cor		1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)		
Output	Monitor (HDMI) C	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, 600 Ω, unbalanced ×1 (RCA pin jack)		
	Alarm / Control Terminal	Alarm Control	Alarm input 1 - 32°2, Alarm output 1 - 4°3, Alarm reset input 2		
	Control Terminal	Control	Time adjustment input ² , 2x +5 V output ⁴ , Emergency recording input, External recording mode switching input		
		Error/	External recording mode switching input Network error output'3, HDD error output'3, Camera error output'3, Recorder error output'3,		
		Warning			
	Mouse Connectin		2 (Front 1, Rear 1)		
	Mouse Connection Port 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		5x WJ-HXE400		
Network	Network Interface		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)		
	Maintenance Ne				
	Maximum Recor	ding Rate	384 Mbps or less		
	Maximum Recording hate		Total 640 Mbps or less		
	Supported Protocol		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARF		
			IPv6 : ICMPv6		
	E-mail		Upon Alarm or Warning		
	No. of Simultaneous Users		16 or less		
	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		
Other	Time Synchronization		Terminal (Slave), NTP (Server/Client)		
Functions	Summer Time		User definable (using menu setup)		
	Remote Monitoring on		16 clients or less ^{*6}		
	Smartphone/Tablet				
HDD	Туре		WJ-NX400 : 8.89 cm (3.5 inch) Serial ATA HDD, Up to 9x HDDs can be installed		
			(with HDD canister as standard accessory) 54 HDD slots (with 5x WJ-HXE400 Extension Units, 9x HDDs installed in each unit		
	Maximum Capad	ity			
	RAID (Hardware RAID)		Up to 8 TB will be supported. ^{*5} Single, RAID1, 5, 6		
Viewer	Playback Contro		Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image		
		NX Viewer	Alteration detection, Save as JPEG, Two times zoom, Print, Copy,		
	Functions		Aspect ratio switching, fish eye correction, corridor display		
		anguage	Language of the software will be English or Japanese		
General	Supported OS, Language Safety / EMC Standard		WJ-NX400K : UL (UL60065), FCC (Part15 ClassA),		
Specifications	Survey / Livio Stanuaru		C-UL (CAN/CSA C22.2 No.60065), DOC (ICES-003 ClassA)		
,			WJ-NX400K/G : CE (EN62368-1, 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 8 TB HDD x9)		
	Ambient Operating		Main body : +5 °C to +45 °C (41 °F to 113 °F)		
	Temperature		Mouse (provided) : +5 °C to +40 °C (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 413 mm (D)(From Rack Mount Bracket 400 mm		
	Dimensiona		{16-15/16 inches (W) x 5-3/16 inches (H) x 16-1/4 inches (D)}		
			(From Rack Mount Bracket 15-3/4") (excluding rubber feet and projections		

Optional Accessories

		WJ-HXE400	WJ-HXE400/G	
Hard Disk Extension Unit WJ-HXE400	Power Source	120 V AC, 60 Hz	220 - 240 V AC, 50Hz / 60Hz	
	Power Consumption	85 W (170 VA)	85 W (175 VA)	
	Dimensions	430 mm (W) x 132 mm (H) x 413 mm(D) (From Rack Mount Bracket 400 mm)		
and the second division of the second divisio		(16-15/16" (W) x 5-3/16" (H) x 16-1/4" (D)) (From Rack Mount Bracket 15-3/4")		
		(excluding rubber feet and projections)		
Contraction of the local division of the loc	Weight	11 kg {24.3 lbs} (When no HDD exist)		
		19.5 kg {43.0 lbs}	(When 9 HDDs are installed)	

When no HDD is installed : 11.5 kg {25.4 lbs} / When 9 HDDs are installed : 20 kg {44.1 lbs}

Additional Camera Kit

Mass (approx.)

Number of cameras used in the system can be increased to 96 and 128 (maximum) by purchasing the Additional Camera Kit (WJ-NXE40W : license for 32 cameras).

Secure Communication Kits

The Secure Communication Kits are license kits to use the security function of the network disk recorder (WJ-NX400K). Each Secure Communication Kit allows the following number of cameras to be registered.							
WJ-NXS01W	WJ-NXS04W	WJ-NXS16W	WJ-NXS32W				
1 camera	1 camera 4 cameras		32 cameras				

Trademarks and registered trademarks

- All other trademarks identified herein are the property of their respective owners.

• Masses and dimensions are approximate. • Specifications are subject to change without notice.



i-PRO Co., Ltd. https://i-pro.com/ (2A-183HL)