

WJ-NX400

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 Extreme cameras which comply to FIPS 140-2 Level 1 standards to keep your video secured from spoofing and snooping activities.

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)
- Symantec device certificates pre-installed *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 324 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.

Applications

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







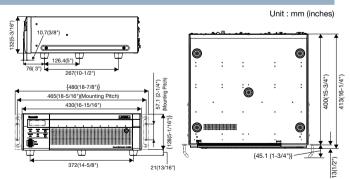


Specifications

Supported	Compatible vendor	Panasonic i-PRO series Network cameras,		
Camera		ONVIF NVT conformant camera and encoder		
	Supported Image Format	H.265(HEVC), H.264, JPEG		
	Supported Image Resolution	•Aspect ratio [4:3]		
	(Depending on the camera)	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		
	0			
	Supported Audio Format	G.711 for Onvif, G.726 (ADPCM) 32 kbps, AAC-LC		
Docording	Maximum Number of Cameras	MAX. 128*1 (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	64 / 128 / 256 / 384 / 512 / 768 kbps		
	Scheduled Recording Mode			
Main Hait	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)		
runctions		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 Nitrol sign and the second split screen display Nitrol sign and the second split screen display Note that the second split screen display split screen display Note that the second split split split split screen display split		
		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,		
	District of Control	1 screen sequence, 4 / 9 / 16 split screen sequence		
	Playback Control	PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record,		
	Carrala Manda	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		
	Сору	Recorded data of selected cameras and time date range can be copied to USB storage.		
	Camera Title	Up to 16 Characters		
	Clock Display	Up to 16 Characters 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 System Setup	Operator access (500), Network error (100), Error (1,000), Event (1000), Operation (5 Setup page in English, French, Italian, Spanish, German, Russian,		
	System Setup	Portuguese, Thai, Simplified Chinese, Japanese		
	360 Camera Dewarp			
	re-encoding	Only 1ch display mode. 2Client *Only when 64 ch mode		
	SD Memory Data Download	Images recorded in the SD card in the i-PRO series cameras can be		
	3D Memory Data Download			
Browser	Camera Control	transferred to the recorder automatically. (H.265/H.264) Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)		
GUI	Carriera Control	Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638)		
doi	Playback Control	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record		
	Flayback Control	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.		
	0	Viewer software can be downloaded separately. File Format : Original Format / MP4		
	Сору			
	Camera Title	Recorded data of selected cameras and time date range can be copied to USB storage.		
	Clock Display	Up to 16 characters On the browser. Time: 12H/24H, Date: 5 formats		
	Alarm Control			
		Reset Live/Play: 2x 4x (only for 1-screen)		
	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		

- *1 Two Additional Camera Kits WJ-NXE40 are necessary. *2 Non-voltage make contact input *3 Open collector output, 24 V DG, -200 mA max. *4 +5V ±0.5 V 200 mA max. *4 +5V ±0.5 V 200 mA max. *5 Please check the following URL for the latest information. (https://security.panasonic.com/download/library/) *6 Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC.

Appearance



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Alarm/	Alarm Source		32x Terminal inputs, 128x Camera alarms (Panasonic Alarm Protocol),		
Event			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 /	Spot Output Conr	nector	1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)		
Output	Monitor (HDMI) Co	onnector	[Main monitor]		
	Audio Output Connector		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		
			-10 dBv, 600 Ω, 600 Ω, unbalanced ×1 (RCA pin jack)		
	Alarm / Alarm		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/	Network error output*3, HDD error output*3, Camera error output*3, Recorder error output*3		
		Warning	Recording error output ^{*3} , Outage detection input, Outage processing end output		
	Mouse Connection Port		2 (Front 1, Rear 1)		
	Network Port		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)		
			USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device		
	USB Storage		5x WJ-HXE400		
Maderia	External Storage				
Network	Network Interface		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)		
	Maintenance Network Port		1x 10BASE-T / 100BASE-TX (RJ45)		
	Maximum Recording Rate		384 Mbps or less		
	Maximum Band V		Total 640 Mbps or less		
	Supported Protocol		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARE		
			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)		
	Maximum Capaci	ty	54 HDD slots (with 5x WJ-HXE400 Extension Units, 9x HDDs installed in each unit		
	· ·	•	Up to 6 TB will be supported.*5		
	RAID (Hardware F	RAID)	Single, RAID1, 5, 6		
Viewer	Playback Control		Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image		
Software			Alteration detection, Save as JPEG, Two times zoom, Print, Copy,		
	Functions		Aspect ratio switching, fish eye correction, corridor display		
	Supported OS, La	anguage	Language of the software will be English or Japanese		
General	Safety / EMC Sta		WJ-NX400K : UL (UL60065), FCC (Part15 ClassA),		
Specifications	Caroty / Emo ota	i i dui d	C-UL (CAN/CSA C22.2 No.60065),DOC (ICES003 ClassA)		
Specifications			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		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		
			{16-15/16 inches (W) x 5-3/16 inches (H) x 16-1/4 inches (D)}		

Optional Accessories

Hard Disk Extension Unit		WJ-HXE400	WJ-HXE400/G
	Power Source	120 V AC, 60 Hz	220 - 240 V AC, 50Hz / 60Hz
WJ-HXE400	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)	
-		(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)	
The second secon	Weight	11 kg {24.3 lbs} (When no HDD exist)	
-		19.5 kg {43.0 lbs} (When 9 HDDs are installed)	

Number of cameras used in the system can be increased to 96 and 128 (maximum) by purchasing the Additional Camera Kits (WJ-NXE40, 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-NXS01, WJ-NXS01W	WJ-NXS04, WJ-NXS04W	WJ-NXS16, WJ-NXS16W	WJ-NXS32, WJ-NXS32W
1 camera	4 cameras	16 cameras	32 cameras

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

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