Panasonic BUSINESS

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 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)
- 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 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.

Industry examples

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











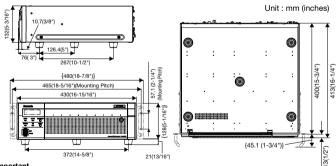
Specifications

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	•Aspect ratio [4:3] 4,000x3,000, 2,560x1,920, 2,048x1,536, 1,280x960, 800x600, 640x4		
	(Depending on the camera)	•Aspect ratio [16:9] 3,840x2,160, 2,560x1,440, 1,920x1,080, 1,280x720, 640x36		
	(Depending on the camera)	•Aspect ratio [1::1] 2,992x2,992, 2,816x2,816, 2,048x2,048, 1,280x1,280		
		•Aspect ratio [1:1] 2,992x2,992, 2,816x2,816, 2,046x2,048, 1,280x1,280 •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. 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 Mbp:		
	Sub-stream Recording	64 / 128 / 256 / 384 / 512 / 768 kbps		
	Scheduled Recording Mode	16 programs, 3 time zones/day, Independent setup for each day of the weel		
	Frame Rate/Camera	Up to 60 ips (Depending on the camera)		
Main Unit	Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256		
Functions		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 playbac		
	Search Mode	Search criteria: Time date, Playback by designating a timeline, VMD, Thumbna		
	Сору	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-		
	System Log	Operator access (500), Network error (100), Error (1,000), Event (1000), Operation (50		
	System Setup	Setup page in English, French, Italian, Spanish, German, Russian,		
	.,	Portuguese, Thai, Simplified Chinese, Japanese		
	360 Camera Dewarp	Only 1ch display mode.		
	re-encoding	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 Wellioly Data Download	transferred to the recorder automatically. (H.265/H.264)		
Browser	Camera Control			
GUI	Carnera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256		
GUI		Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD638		
	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	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.		
	Сору	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,		
	ricquired FO	VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or late		
		VID AVE. 120 IVID OF THOSE (IVIII), 04 IVID), IVIICTOSOTE DIRECTA 9.00 OF IAU		

- 1 ию Auditional Camera Kits Wu-NxL4U, WJ-NXL4UW are necessary. "2 Non-voltage make contact input 3 Open collector output, 24 V DC, -200 mA max.

 5 Please check the following URL for the latest information. (https://security.panasonic.com/training_support/documentation_database/) 6 Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC.

Appearance



- Safety Precautions: Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- Panasonic i-PRO Sensing Solutions Co., Ltd. cannot be held responsible for the performance
- of the network and/or other manufacturers' products used on the network.

Alarm/ Event	Alarm Source		32x Terminal inputs, 128x 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 /	Spot Output Conr	nector	1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)	
Output	Monitor (HDMI) C	onnector	[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 /	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 ⁴³ , 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 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 Net	work Port	1x 10BASE-T / 100BASE-TX (RJ45)	
	Maximum Record	ling 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, 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)	
	Maximum Capaci	ity	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		Single, RAID1, 5, 6	
Viewer	Playback Control		Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image	
Software		IX Viewer	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 Standard		WJ-NX400K : UL (UL60065), FCC (Part15 ClassA),	
Specifications			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		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)}	
			(From Rack Mount Bracket 15-3/4") (excluding rubber feet and projections	
	Mass (approx.)		When no HDD is installed: 11.5 kg {25.4 lbs} / When 9 HDDs are installed: 20 kg {44.1 lbs	

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)	

Additional Camera Kits

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-NXS01W	WJ-NXS04W	WJ-NXS16W	WJ-NXS32W					
1 camera	4 cameras	16 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.

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