

# 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

#### **PC-less non VMS surveillance solution**

- No camera license fees, 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 5/6
- External storage expansion up to 324 TB

#### High reliability and redundancy

- Dynamic HDD power management increases HDD life
- Redundant fail-over using 2<sup>nd</sup> recorder to enable seamless mission-critical recording\* \*Available after version upgrade
- TURBO-RAID for quick RAID recovery without sacrificing recording bandwidth and performance

#### **Applications**

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









#### **Specifications**

	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		
	Supported Audio Format	G.711 for Onvif, G.726 (ADPCM) 32 kbps		
	Maximum Number of Cameras	MAX. 128 <sup>*1</sup> (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	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]		
		4 / 9 / 16 split screen display,		
		3/4/6/9/12/16/24/32/64 split screen display/1 screen sequence		
		4(9, 16) split screen sequence on a full screen		
		(*64-multiscreen is available when sub monitor isn't on.)		
		[Sub monitor]		
		1 screen sequence / 4(9,16) split screen sequence /		
		9(16)32 split screen display		
	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, Playback by designating a timeline, VMD, Thumbnai		
	Сору	Recorded data of selected cameras and time date range can be copied to		
	Сору	the 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	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		
Browser GUI	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	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record		
		Prev Image, Next Image, Go to Date, Go to Last (30 s)		
İ	Search Mode	Search criteria : Time date, Event type, VMD, Camera number		
	Display Mode	1/4 screen		
	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)		
	Сору	Recorded data of selected cameras and time date range can be copied to the USB strage		
	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)		
		Derator access (500), Network error (100), Error (1,000), Event (1000), Operation (500		
	System Log			
	GUI Language	Setup page in English, French, Italian, Spanish, German, Russian, Portuguese,		
		Thai, Simplified Chinese, Japanese		
		CPU : Intel <sup>®</sup> Core <sup>™</sup> i7-860 or faster, RAM : 4 GB or more,		
	Required PC			
	Required PC	VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or late		
	Iditional Camera Kits WJ-NX	VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or late E40 are necessary. *2 Non-voltage make contact input		
3 Open c	ditional Camera Kits WJ-NX ollector output, 24 V DC, -20	VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or late		

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 /	Event log Spot Output Connector		1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)	
Output				
Output	Monitor (HDMI) Co	onnector	[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 Con	nector	-10 dBv, 600 Ω, 600 Ω, unbalanced ×1 (RCA pin jack)	
	Alarm /	Alarm	Alarm input 1 - 32 <sup>2</sup> , Alarm output <sup>3</sup> , Alarm reset input 1 - 4 <sup>2</sup>	
	Control Connector /	Control	Time adjustment input <sup>*2</sup> , 2x +5 V output <sup>*4</sup>	
	D-sub 25pin	Error/	Network error output <sup>-3</sup> , HDD error output <sup>-3</sup> , Camera error output <sup>-3</sup> ,	
		Warning	Recorder error output <sup>*3</sup> , Recording error output <sup>*3</sup> ,	
		warning	Emergency recording input, Outage detection input,	
			External recording mode switching input, Outage processing end output	
	Mouse Connection	n 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 Network Port		1x 10BASE-T / 100BASE-TX (RJ45)	
	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, ARF	
			IPv6 : ICMPv6	
	E-mail		Upon Alarm or Warning	
	No. of Simultaneous Users			
			Up to 32 users	
	User Registration			
	User Level Partitioning Security Method		3 Levels (Programmable)	
			User level - Camera (View & Control, No Access)	
			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 Monitorin	g on	2Client	
	Smartphone/Tablet		*Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC	
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	v	54 HDD slots (with 5x WJ-HXE400 Extension Units, 9x HDDs installed in each unit	
		,	Up to 6 TB will be supported. <sup>5</sup>	
	PAID (Hardwara E		Single, RAID1'6, 5, 6	
Viewer	RAID (Hardware RAID)		Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image	
Software	Playback Control			
Sonware	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),	
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)	
			2,000 m (6,562 feet) above sea level	
	Maximum Operating Altitude			
	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)}	
			(excluding rubber feet and projections)	

32x Terminal inputs, 128x Camera alarms (Panasonic Alarm Protocol),

### **Optional Accessories**

Mass (approx.)

Alarm/ Alarm Source

	111110/5100		
	WJ-HXE400	WJ-HXE400/G	
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 400 mm (D)		
	(16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D))		
		bber feet and projections)	
Weight	11 kg {24.3 lbs} (When no HDD exist)		
°	19.5 kg {43.0 lbs} (When 9 HDDs are installed)		
	Power Consumption Dimensions	Power Consumption         85 W (170 VA)           Dimensions         430 mm (W) x (16-15/16" (W) x (excluding ru Weight         (11 kg (24.3)	

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

#### **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-NXS01, WJ-NXS01W	WJ-NXS04, WJ-NXS04W	WJ-NXS16, WJ-NXS16W	WJ-NXS32, WJ-NXS32W						
1 camera	4 cameras	16 cameras	32 cameras						

- Important Safety Precaution : Carefully read the Important Information, Installation Guide and
- 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.

## Panasonic

http://security.panasonic.com

f http://www.facebook.com/PanasonicNetworkCamera

(2A-183BL)

Unit : mm (inches) 10.7 (3/8") ć 0 6 126.4 (5\*) 74 H 63 13 (1/2\*) 267 (10-1/2") (2-1/2") 400 (5-12/16") 480 (18-7/8") 465 (18-5/16")(Mounting Pitch 57.1 (2-430 (16-15/16") **()** 0 {45.1 (1-3/4")} W 372 (14-5/8") 21(13/16")

Appearance

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