

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 spooling 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 certilicates 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 con guration
- 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 sacrillcing recording bandwidth and performance

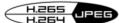
### **Applications**

- 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		
Camera	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     G.711 for Onvif, G.726 (ADPCM) 32 kbps		
	Supported Audio Format			
	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)		
Aain Unit				
unctions	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,		
unctions		Aux, Wiper (for WV-SUD638)		
	Multiscreen Mode	[Main monitor]		
	Multiscreen Mode	-		
		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, Thumb		
	Сору	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: 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 (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		
Browser GUI	Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 258)		
		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	Recorded data of selected camera and time range can be downloaded to a PC.		
		Viewer software can be downloaded separately.		
	SD Memory Data Download	Viewer software can be downloaded separately.  Images recorded in the SD card in the i-PRO series cameras can be		
	SD Memory Data Download	Images recorded in the SD card in the i-PRO series cameras can be		
		Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H.265/H.264)		
	SD Memory Data Download  Copy  Camera Title	Images recorded in the SD card in the i-PRO series cameras can be		
	Copy Camera Title	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 205/H. 204) Recorded data of selected cameras and time date range can be copied to the USB strage. Up to 10 characters		
	Copy Camera Title Clock Display	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H.265/H.264) Recorded data of selected cameras and time date range can be copied to the USB strage Up to 16 characters  On the browser. Time: 12H/24H, Date: 5 formats		
	Copy Camera Title Clock Display Alarm Control	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 285/H. 264) Recorded data of selected cameras and time date range can be copied to the USB strage Up to 18 characters On the browser. Time: 12H/24H, Date: 5 formats Reset		
	Copy Camera Title Clock Display Alam Control Digital Zoom	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 265/H. 264) Recorded data of selected cameras and time date range can be copied to the USB strage. Up to 16 characters On the browser. Time: 12H/24H, Date: 5 formats Reset Live/Play: 2x, 4x (only for 1-screen)		
	Copy Camera Title Clock Display Alam Control Digital Zoom System Log	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 265/H. 264) Recorded data of selected cameras and fine date range can be copied to the USB strage. Up to 10 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)		
	Copy Camera Title Clock Display Alam Control Digital Zoom	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 285/H. 284). Recorded data of selected cameras and time date range can be expired to the USB strage. Up to 16 characters.  On the browser. Time: 12H/24H, Date: 5 formats. Reset. Live/Pay: 2x, 4x (only for 1-screen). Operator access (500, Network error (100). Error (1,000). Event (1000). Operation (500). Setup page in English, French, Italian, Spanish, German, Russian, Portuguese.		
	Copy Camera Title Clock Display Alarm Control Digital Zoom System Log GUI Language	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 205/H. 204) Recorded data of selected cameras and time date range can be copied to the USB strage. 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), Networkerror (100), Error (1,000), Event (1000), Operation (500 Setup page in English, French, Italian, Spanish, German, Russian, Portuguese, Thai, Simplified Chinese, Japanese		
	Copy Camera Title Clock Display Alam Control Digital Zoom System Log	Images recorded in the SD card in the i-PRO series cameras can be transferred to the recorder automatically. (H. 285/H. 284). Recorded data of selected cameras and time date range can be expired to the USB strage. Up to 16 characters.  On the browser. Time: 12H/24H, Date: 5 formats. Reset. Live/Pay: 2x, 4x (only for 1-screen). Operator access (500, Network error (100). Error (1,000). Event (1000). Operation (500). Setup page in English, French, Italian, Spanish, German, Russian, Portuguese.		

- \*1 Two Additional Camera Kits WJ-NXE40 are necessary. \*2 Non-voltage make contact input \*3 Open collector output, 24 V DC, -200 mA max. \*4 +5V ±0.5 V 200 mA max.
- Please check the following URL for the latest information. (http://security.panasonic.com/download/library/) RAID1: Launches in June, 2017

### Unit: mm (inches) 1 128.4 (5") (2-1/2°) 480 (18-7/8") 465 (18-5/16")(Mounting Pitch) 400 (5-1 430 (16-15/16") 0 372 (14-5/8" 21(13/16")

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Alarm Action Alarm recording e-mail notification. Alarm message Camera positioning Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Alarm Control Spot Output Connector Monitor (HDMI) Connector 1x 1 V [p-p] / 75 Ω (B NC) NTSC /PAL (selectable in setup menu) Output HDMI 4K UHD(3840x2160p)/30Hz, 4K UHD(3840x2160p)/25Hz, 1920×1080p /60Hz. 1920×1080p /50Hz. 1920×1080i /60Hz. 920x1080i /50Hz, 720x576p /50Hz, 720x480p /60Hz HDMI 1020v1080n /80Hz 1020v1080n /50Hz 1020v1080i /80Hz 1920x1080i /50Hz, 720x578p /50Hz, 720x480p /60Hz Audio Output Connector Alarm / Alarm -10 dBv, 600 Ω, 600 Ω, unbalanced ×1 (RCA pin jack)

Alarm input 1 - 32<sup>-12</sup>, Alarm output<sup>-3</sup>, Alarm reset input 1 - 4<sup>-12</sup> Control Time adjustment input\*2, 2x +5 V output\*4

Error/ Network error output\*3, HDD error output\*3, Camera error output\*3, Warning Recorder error output\*3, Recording error output\*3, Control Connector / Emergency recording input, Outage detection input, External recording mode switching input, Outage processing end output 2 (Front 1, Rear 1) 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45) Mouse Connection Port Network Port USB Storage External Stora USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device) 5x WJ-HXE400 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45) Network Interface Maintenance Network Port 1x 10BASE-T/ 100BASE-TX (RJ45)
Maximum Recording Rate 384 Mbps or less Total 640 Mbps or less
IPv4: TCP/P, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARE Maximum Band Width Supported Protocol IPv6: ICMPv6 No. of Simultaneous Users 16 or less User Registration Up to 32 users User Level 3 Levels (Programmable) User level - Camera (View & Control, No Access)
User authentication (ID and Password), Host authentication Alteration detection, SSL/TLS Time Synchronization Terminal (Slave), NTP (Server/Client) User definable (using menu setup) emote Monitoring on Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC.
WJ-NX400: 889 cm (3.5 inch) Serial ATA HDD, Up to 9x HDDs can be installed
(with HDD canister as standard accessory) Smartphone/Tablet 54 HDD slots (with 5x WJ-HXE400 Extension Units, 9x HDDs installed in each unit) Maximum Capacity Up to 6 TB will be supported. Single, RAID1\*6, 5, 6

Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image
Alteration detection, Save as JPEG, Two times zoom, Print, Copy RAID (Hardware RAID) Playback Control Additional Functions Software Supported OS, Language Language of the software will be English or Japanese WJ-NX400K: UL (UL60085), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065),DOC (ICES003 ClassA) WJ-NX400K/G: CE (EN60065, EN55032 ClassB, EN55024), EAC WJ-NX400K: 120 V AC 60 Hz / WJ-NX400K/G: 220 V - 240 V AC 50 Hz/60 Hz ower Source Power Consumption Ambient Operating approx. 125 W (with 6 TB HDD x9)
Main body: +5 °C to +45 °C (41 °F to 113 °F) Temp erature Mouse (provided) : +5 °C to +40 °C (41 °F to 104 °F) midity 5 % to 90 % (without condensation) mbient Operating Hu Maximum Operating Altitude 2,000 m (6,562 feet) above sea level 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) When no HDD is installed: 11.5 kg {25.4 lbs}/ When 9 HDDs are installed: 20 kg {44.1 lbs} Mass (approx.)

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

128x Command alarms Off / On

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 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections)	
	Weight	11 kg (24.3 lbs) (When no HDD exist) 19.5 kg (43.0 lbs) (When 9 HDDs are installed)	

### Additional Camera Kits

Alarm Source

Event Mode

Number of cameras used in the system can be increased to 96 and 128 (maximu 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 rec 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

### Important |

- 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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