Panasonic

BUSINESS

WJ-NX200
WJ-NX200K (120 V AC)

Network Disk Recorder

H.265/H.264 high-throughput featuring integrated GUI and robust embedded IP security enabling a secure end-to-end PC-less surveillance solution for mission-critical applications.

Supports 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 communication and high compression recording

- Significant reduction of storage space usage through H.265 and Smart Coding.
- 9 ch. expandable to 16 ch. camera input. Supports H.265 / H.264 mixed recordings.
- 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
- Time-saving playback: High-speed(Max. 4x*) all frames playback when there is no motion; normal-speed playback when there is motion.
  *It depends on resolution and number of screens.
- Image search with thumbnails
- High-speed copy to USB storage

High reliability and high efficiency data reading/writing

- Eco-writing: Acceleration of data access (reading/writing) by original file system
- Instantaneous power failure measures: Normal operation at instantaneous power failure within 200 ms; safe shutdown at power failure of 200 ms or more.

Industry examples

- Retail / Quick-Service Restaurants
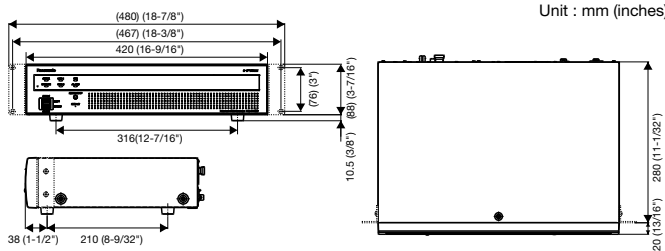- Hospitals / Education
- Banks
- Factories

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

ONVIF® | S

H.265
H.264
JPEG

:::i-PRO

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 (Depending on the camera)	**•Aspect ratio [4 : 3]** 4000x3000, 2560x1920, 2048x1536, 1280x960, 800x600, 640x480 **•Aspect ratio [16 : 9]** 3840x2160, 2560x1440, 1920x1080, 1280x720, 640x360 **•Aspect ratio [1 : 1]** 2992x2992, 2816x2816, 2048x2048, 1280x1280 **•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. 16[*1] (Default number of cameras : 9)
Recording	Recording Mode	Event, Schedule, Emergency
	Pre-alarm Recording	Up to 15 seconds *When the delivery speed from the network camera is less than 4 Mbps.
	Sub-stream Recording	64 / 128 / 256 / 384 / 512 / 768 kbps
	Scheduled Recording Mode	16 programs, 6 time zones/day, Independent setup for each day of the week
	Frame Rate/Camera	Up to 60 fps (Depending on the camera)
Main Unit Functions	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, 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 split screen display, 1 screen sequence, 4 / 9 / 16 split screen sequence **[Sub monitor]** 1 / 4 / 9 / 16 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
	Copy	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-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
	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)
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	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.
	Copy	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, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later

Alarm/ Event	Alarm Source		9x Terminal inputs, 16x 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 / Output	Spot Output Connector		1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)
	Monitor (HDMI) 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, unbalanced ×1 (RCA pin jack)
	Alarm / Control Terminal	Alarm	Alarm input 1 - 9[*2], Alarm output[*3], Alarm reset input[*2]
		Control	Time adjustment input/output[*2], +5 V output[*4], Emergency recording input
		Error/ Warning	Network error output[*3], HDD error / Recording error output[*3], Camera error output[*3], Recorder error output[*3]
	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)
Network	Network Interface		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)
	Maximum Recording Rate		192 Mbps or less
	Maximum Band Width		Total 384 Mbps or less
	Supported Protocol		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARP 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 Functions	Time Synchronization		Terminal (Master/Slave), NTP (Server/Client)
	Summer Time		User definable (using menu setup)
	Remote Monitoring on Smartphone/Tablet		16 clients or less *5
HDD	Type		8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.
	Maximum Capacity		Up to 12 TB will be supported.[*6]
	RAID		RAID 1
Viewer Software	Playback Control		PLAY, Rev PLAY, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image
	Additional Functions	NX Viewer	Alteration detection, Save as JPEG, Two times zoom, Print, Copy, Aspect ratio switching, fish eye correction, corridor display
	Supported OS, Language		Language of the software will be English or Japanese
General Specifications	Safety / EMC Standard		cUL (UL60065), FCC Part15 ClassA
	Power Source		120 V AC 50 Hz/60 Hz
	Power Consumption		approx. 56 W
	Ambient Operating Temperature		Main body : +5 °C to +45 °C (41 °F to 113 °F) 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		420 mm(W) x 88 mm(H) x 300 mm(D) {16-9/16 inches (W) x 3-7/16 inches (H) x 11-13/16 inches (D)}
	Mass (approx.)		When no HDD is installed: 5.2 kg {11.5 lbs}

*1 WJ-NXE20W is necessary.
*2 Non-voltage make contact input, +3.3 V pull-up Approx. 23 kΩ
*3 Open collector output, 24 V DC, -200 mA max.
*4 +5V ±0.5 V 200 mA max.
*5 Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC.
*6 Please check the following URL for the latest information. (https://security.panasonic.com/training_support/documentation_database/)

Appearance

Unit : mm (inches)

(480) (18-7/8")
(467) (18-3/8")
420 (16-9/16")
(76) (3")
(88) (3-7/16")
316(12-7/16")
10.5 (3/8")
280 (11-1/32")
20 (13/16")
38 (1-1/2")   210 (8-9/32")

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

Optional Accessories

Additional Camera Kit
Number of cameras used in the system can be increased to 16 (maximum) by purchasing the Additional Camera Kit (WJ-NXE20W : One license for 16 cameras).

Secure Communication Kits
The Secure Communication Kits are license kits to use the security function of the network disk recorder.
Each Secure Communication Kit allows the following number of cameras to be registered.

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

Rack Mount Bracket
WV-Q202

Important
– 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.