





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 Extreme 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 32 ch. camera input. Supports H.265 / H.264 mixed recordings.
- 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
- 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.

Applications

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









Specifications

Supported	Compatible vendor	Panasonic i-PRO series Network cameras.
Supported Camera	Compatible vertuor	ONVIF NVT conformant camera and encoder
	0 111 5	
	Supported Image Format	H.265(HEVC), H.264, JPEG
	Supported Image Resolution	•Aspect ratio [4:3]
	(Depending on the camera)	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. 32*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	Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)
Functions	Carriera Control	
		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 / 24 / 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, Thumbnai
	Сору	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
		<u>'</u>
	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
	image bowilload	Recorded data of selected camera and time range can be downloaded to a PC
		Viewer software can be downloaded separately.
	C	
	Сору	File Format: Original Format / MP4
	O T11	Recorded data of selected cameras and time date range can be copied to USB storag
	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,

Appearance Unit: mm (inches) (480) (18-7/8") • 280 (11-1/32")

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- 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

Alarm Source 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol). 128x Command alarms Event Mode Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Alarm Control Event log Spot Output Connector 1000 1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu) Output Monitor (HDMI) Connecto [Main monitor] HDMI 4K UHD(3840x2160p) /30Hz, 4K UHD(3840x2160p) /25Hz, 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz, 1920x1080i /50Hz -HDMI 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz, 1920x1080i /50Hz -10 dBv, 600Ω , unbalanced ×1 (RCA pin jack) Audio Output Connector Alarm Alarm input 1 - 9°2, Alarm output°3, Alarm reset input°2, Face matching output°5 Time adjustment input/output*2, +5 V output*4, Emergency recording input Network error output*3, HDD error / Recording error output*3, Control Termina Error/ Camera error output*3, Recorder error output*3 Mouse Connection Port Network Port 2 (Front 1, Rear 1) 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45) Network Port USB Storage USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device) Network Interface 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45) Maximum Recording Rate Total 384 Mbps or less Maximum Band Width IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, Supported Protocol RTSP, ICMP, ARP IPv6: ICMPv6 E-mail Upon Alarm or Warning No. of Simultaneous Users User Registration Up to 32 users Levels (Programmable) User level - Camera (View & Control, No Access) Partitioning Security Method User authentication (ID and Password), Host authentication, Alteration detection, SSL/TLS Time Synchronizatio Terminal (Master/Slave), NTP (Server/Client) Summer Time User definable (using menu setup) 16 clients or less *6 Remote Monitoring on Smartphone/Tablet HDD 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed. Type Maximum Capacity Up to 12 TB will be supported." RAID BAID 1 Playback Control PLAY, Rev PLAY, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image Viewer Additional NX Vie Alteration detection, Save as JPEG, Two times zoom, Print, Copy, Functions Aspect ratio switching, fish eye correction, corridor display Language of the software will be English or Japanese CE (EN60065, EN55032 ClassB, EN55024), EAC Supported OS, Language Safety / EMC Standard Genera Power Source 220 V-240 V AC 50 Hz/60 Hz Power Consumption approx. 56 W Main body : +5 °C to +45 °C (41 °F to 113 °F) Ambient Operating Mouse (provided): +5 °C to +40 °C (41 °F to 104 °F) Temperature Ambient Operating Humidity 5 % to 90 % (without condensation) Maximum Operating Altitude 2,000 m (6,562 feet) above sea level 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)}

- When no HDD is installed: 5.2 kg {11.5 lbs} Mass (approx.)

- Three Additional Camera Kits WJ-NXE20 are necessary.
 Non-voltage make contact input, +3.3 V pull-up Approx. 23 kΩ
 Open collector output, 24 V DC, -200 mA max.
 4 5V 2.0 5 V 200 mA max.
 Additional Business Intelligence Kit WJ-NXF02 is necessary.

*6 Panasonic Security Viewer v.3.0 or later is required on smartphone/tablet PC. *7 Please check the following URL for the latest information. (https://security.panasonic.com/download/library/)

Optional Accessories

Additional Business Intelligence Kit WJ-NXF02, WJ-NXF02W

WJ-NXF02(W) is a license kit intended to improve the usefulness of Network Disk Recorder WJ-NX200. After registering the WJ-NXF02(W) into WJ-NX200, WJ-NX200 is enabled statistical processing functions





such as "People counting" and "Face matching / Age & Gender judgment". *2ch input per license

Secure Communication Kits

Additional Camera Kits

Number of cameras used in the system can be increased to 32 (maximum) by purchasing the Additional Camera Kits (WJ-NXE20, WJ-NXE20W: three license for 32 cameras).

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

Rack Mount Bracket WV-Q202



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

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