





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 16 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

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









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]		
	(Depending on the camera)	4000x3000, 2560x1920, 2048x1536, 1280x960, 800x600, 640x480		
	(Boponanig on the camera)	•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			
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		
ŀ	Sub-stream Recording	64 / 128 / 256 / 384 / 512 / 768 kbps		
-	Scheduled Recording Mode			
-	Frame Rate/Camera			
Main Unit	Camera Control	Up to 60 fps (Depending on the camera) Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 25)		
Functions	Carnera Control			
runcuons		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 playba		
	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 storag		
	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 25)		
		Auto mode, Click centering, Wheel zoom, Zoom reset, , Aux, Wiper (for WV-SUD63		
	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		
	inage Download	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		
	Сору	Recorded data of selected cameras and time date range can be copied to USB stora		
	Camera Title	Up to 16 characters		
	Clock Display			
	Alarm Control	On the browser. Time: 12H/24H, Date: 5 formats		
		Reset		
	Digital Zoom	Live/Play: 2x, 4x (only for 1-screen)		
		Operator 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, Portugues		

	Event Mode		Off / On	
	Alarm Action		Alarm recording, e-mail notification, Alarm message, Camera positioning,	
	Alarm Control		Terminal output, Panasonic alarm protocol output, Buzzer, Indicator	
			Reset	
	Event log		1000	
Input /			1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu)	
Output	Spot Output Connector Monitor (HDMI) Connector			
Output	Monitor (HDMI) Co	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, unbalanced ×1 (RCA pin jack)	
	Alarm / Alarm		Alarm input 1 - 9°2, Alarm output 3, Alarm reset input 2	
	Control Terminal	Control	Time adjustment input/output ² , +5 V output ⁴ , Emergency recording input	
		Error/	Network error output ⁻³ , HDD error / Recording error output ⁻³ ,	
		Warning		
	Mouse Connection 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	Network Interface		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)	
	Maximum Record	ing 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			
	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	T 0 1 1 1		·	
Functions	Time Synchronization		Terminal (Master/Slave), NTP (Server/Client)	
runctions	Currintor Tillio		User definable (using menu setup)	
	Remote Monitoring on		16 clients or less *5	
	Smartphone/Tablet			
HDD	Type		8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.	
	Maximum Capaci	ty	Up to 12 TB will be supported.*6	
	RAID		RAID 1	
Viewer	Playback Control		PLAY, Rev PLAY, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Ima	
Software	Additional NX Viewer		Alteration detection, Save as JPEG, Two times zoom, Print, Copy,	
Contware	Functions		Aspect ratio switching, fish eye correction, corridor display	
	Supported OS, Language		Language of the software will be English or Japanese	
General	Safety / EMC Star		cUL (UL60065), FCC Part15 ClassA	
Specifications			120 V AC 50 Hz/60 Hz	
орсонюшионо	Power Source Power Consumption		approx. 56 W	
	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			
	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)}	
			(10 5/10 lileties (W) x 0 1/10 lileties (II) x 11 10/10 lileties (D))	

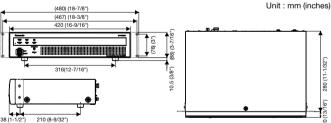
128x Command alarms

9x Terminal inputs, 16x Camera alarms (Panasonic Alarm Protocol).

Alarm Source

- Non-voltage make contact input, +3.3 V pull-up Approx. 23 kΩ
 Open collector output, 24 V DC, -200 mA max.
 +5V ±0.5 V 200 mA max.
 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/download/library/)

Appearance



Optional Accessories

Additional Camera Kits

Number of cameras used in the system can be increased to 16 (maximum) by purchasing the Additional Camera Kits (WJ-NXE20, 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-NXS01, WJ-NXS01W	WJ-NXS04, WJ-NXS04W	WJ-NXS16, WJ-NXS16W
1 camera	4 cameras	16 cameras

Rack Mount Bracket WV-Q202



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- 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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