

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.

Supports full data encryption streaming recording for all i-PRO camera which comply to FIPS 140-2 CAVT* to keep your video secured from spoofing and snooping activities. *Using encryption module standardized by FIPS publication 140-2

Secure high bandwidth recording

- 16 ch. expandable to 32 ch. camera input. Support H.265 / H.264 mixed recordings.
- 512 Mbps total through put (including 256 Mbps recording bandwidth)
- 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

Scalable storage

- (4) integrated drive-bays RAID 1 / 5 / 6 *Additional RAID Kit license is necessary to use the RAID feature.
- External storage expansion up to 176 TB

High reliability and high efficiency data reading/writing

- Dynamic HDD power management increases HDD life
- TURBO-RAID for quick RAID recovery without sacrificing recording bandwidth and performance
- 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

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





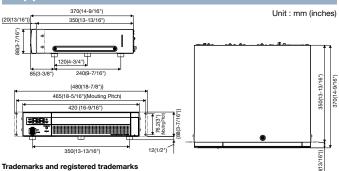




Specifications

Supported	Compatible vendor	i-PRO series Network cameras, ONVIF NVT conformant camera and encoder
Camera	Supported Image Format	H.265(HEVC), H.264, JPEG
	Supported Image Resolution	•Aspect ratio [4 : 3] 4000x3000, 3072x2304, 2560x1920, 2048x1536, 1600x1200, 1280x960, 800x600, 640x480
	(Depending on the camera)	•Aspect ratio [16:9] 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720, 640x360
	(Depending on the carriera)	•Aspect ratio [1:1] 2992x2992, 2816x2816, 2192x2192, 2048x2048, 1280x1280
		•Aspect ratio [9:16] 2160x3840, 1728x3072, 1440x2560, 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 : 16)
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), Auto mode,
Functions		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 playback
	Search Mode	Search criteria: Time date, Playback by designating a timeline, VMD, Thumbnail
	Сору	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,
	System Setup	
		Portuguese, Thai, Simplified Chinese, Traditional 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	Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256).
GUI		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
	Illiage 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
		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,
	gaage	Thai, Simplified Chinese, Traditional Chinese, Japanese
	Poguired DC	
	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, 32x Camera alarms (TCP alarm notification), 128x Command alarms
	Event Mode	Off / On
	Alarm Action	Alarm recording, e-mail notification, Alarm message, Camera positioning,
		Terminal output, TCP alarm notification output, Buzzer, Indicator
	Alarm Control / Event log	Reset / 1000

Appearance



- All other trademarks identified herein are the property of their respective owners.

Important

- Safety Precautions: Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.

 – i-PRO Co., Ltd. cannot be held responsible for the performance
- of the network and/or other manufacturers' products used on the network.

1x 1 V [p-p] / 75 Ω (BNC) NTSC /PAL (selectable in setup menu) Spot Output Connector Monitor (HDMI) Connector 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, $600~\Omega$, unbalanced ×1 (RCA pin jack) Alarm input 1 - 9°2, Alarm output'³, Alarm reset input'², Face matching output'⁵ Audio Output Connector Alarm Control 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 Terminal Mouse Connection Port 2 (Front 1, Rear 1) Network Port USB Storage USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device) External Storage 2x 10BASE-T / 100BASE-TX / 1000BASE-T (BJ45) Network | Network Interface 256 Mbps or less Maximum Recording Rate Maximum Band Width Total 512 Mbps or less Supported Protocol IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, RTP, RTSP, ICMP, ARF IPv6: ICMPv6 Upon Alarm or Warning No. of Simultaneous Users 16 or less Up to 32 users User Registration User Level 3 Levels (Programmable) User level - Camera (View & Control, No Access) Partitioning Security Method User authentication (ID and Password), Host authentication, Alteration detection, SSL/TLS Terminal (Master/Slave), NTP (Server/Client) Time Synchronization Function Summer Time User definable (using menu setup) Smartphone/Tablet HDD 8.89 cm (3.5 inch) Serial ATA HDD, Up to 4x HDDs can be installed. Maximum Capacity 22 HDD slots (with 2x WJ-HXE400 Extension Units, 9x HDDs installed in a extension unit Up to 8 TB will be supported.*7 RAID(Hardware RAID)*8 Playback Control Additional NX Viewer PLAY, Rev PLAY, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image Alteration detection, Save as JPEG, Two times zoom, Print, Copy, Aspect ratio switching, fish eye correction, corridor display Functions Supported OS, Language Safety / EMC Standard Language of the software will be English or Japanese CE (EN60065, EN55032 ClassB, EN55024), EAC Genera Power Source 220 V-240 V AC 50 Hz/60 Hz approx. 72 W Main body: +5 °C to +45 °C (41 °F to 113 °F), Mouse (provided): +5 °C to +40 °C (41 °F to 104 °F) approx. Power Consumption Ambient Operating Temperature 5 % to 90 % (without condensation) Ambient Operating Humidity Maximum Operating Altitude 2.000 m (6.562 feet) above sea level 420 mm(W)×88 mm(H)×370 mm(D) (From Rack Mount Bracket 350 mm) {16-9/16 inches(W)×3-7/16 inches(H)×14-9/16 inches (D))(From Rack Mount Bracket (13-13/16" excluding rubber feet and projections) Mass (approx.) When no HDD is installed: 7.0 kg {15.4 lbs}

- *1 Two Additional Camera Kit WJ-NXE30W are 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.

- 3 Open Contector output, 24 v Lo., *200 ITIA ITIAX. 4 +50 ± 0.5 v 200 MA MAX.

 5 Additional Business Intelligence Kit WJ-NKF02W is necessary.

 6 i-PRO Mobile APP is required on smartphone/tablet PC.

 7 Plesse check the following URI for the latest information. (https://i-pro.com/global/en/surveillance/training-support/documentation-database-list)

 8 Additional RAID Kit WJ-NXR30W is necessary.

Optional Accessories Hard Disk Extension Unit WJ-HXE400/G

Power Source: 220 - 240 V AC. 50 Hz / 60 Hz

Power Source: 220 - 240 V AC, 50 Hz / 60 Hz
Power Consumption: 85 W (175 VA)
Dimensions: 430 mm (W) x 132 mm (H) x 413 mm(D) (From Rack Mount Bracket 400 mm)
(16-15/16' (W) x 5-3/16' (H) x 16-1/4' (D))(From Rack Mount Bracket 15-3/4')
(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)

WV-Q202

Rack Mount Bracket

Additional Business Intelligence Kit

WJ-NXF02W

WJ-NXF02W is a license kit intended to improve the usefulness

of Network Disk Recorder WJ-NX300. After registering the WJ-NXF02W into WJ-NX300, WJ-NX300 is enabled statistical processing functions such as "People counting" and

"Face matching / Age & Gender judgment". *2ch input per license

*Al-compatible network cameras aren't supported.

Additional RAID Kit WJ-NXR30W

WJ-NXR30W is a license kit intended to improve the usefulness of Network Disk Recorder WJ-NX300. After registering the WJ-NXR30W into WJ-NX300, WJ-NX300 is enabled RAID functions.

Additional Camera Kit

er of cameras used in the system can be increased to 32 (maximum) by purchasing the Additional Camera Kit (WJ-NXE30W: license for 8 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:1 camera WJ-NXS04W:4 cameras WJ-NXS16W:16 cameras WJ-NXS32W:32 cameras

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

