WV-S8531N

4 x 2MP(8MP) Outdoor Multi-Sensor Network Camera

The WV-S8531N captures the highest quality images in even very challenging and dynamic environments. In particular, the camera can capture clear vehicle image in color even at night intersections of low light intensity.

And the four repositionable lenses minimize blind spots and flexibly correspond to intersections of various shapes and monitoring areas of cities. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. By adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage. Cameras out-of-the-box, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

Extreme image quality for evidence capturing under challenging conditions

- Four repositionable lenses with easy adjustment include a wide range tilt angle mechanism minimizes blind spots
- Sharp and clear images of fast moving vehicles with Intelligent Auto and ClearSight Coating
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 120dB for backlit situations and shadows on night streets
- Environmental durability: IP66, IK10 and Dehumidification device

Extreme bandwidth compression with new H.265 Smart Coding

- Reduced the amount of transferred data and less storage space compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) dynamically detect motion areas to keep vehicles and human in good picture quality while lowering your bandwidth *Region of Interest

Extreme Data Security

- Full encryption SD card edge recording to keep your data safe
- FIPS140-2 CAVP compliant *Using encryption module standardized by FIPS publication 140-2
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Easy installation

- Continuous view assistance: After determining the monitor angle, set the lens to the specified position and the cameras will automatically zoom and focus to reduce the overlap of images from each camera.
- Installation time can be reduced by confirming live image and adjusting viewing angle with smartphone or tablet device via Wi-Fi connection.
- Allows you to connect the network cable to the camera body simply by opening a part of the package, which saves you time and workspace, especially when handling multiple cameras.

Key Features

- 4 x 2MP(8MP) 1920x1080 up to 30fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- Color night vision (0.003 to 0.05 lx)
- H.265 Smart Coding
- ClearSight Coating
- Continuous view assistance
- Wide range tilt angle adjustment mechanism
- ONVIF® Profile G / S *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)



Wide range tilt angle adjustment mechanism



*The above is the adjustable range of a single camera. The adjustable range of each camera varies according to the positional relationship with other cameras.

Continuous view assistance

Before adjustment



After adjustment



After determining the monitor angle, set the lens to the specified position and the cameras will automatically zoom and focus to reduce the overlap of images from each camera.

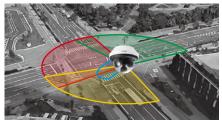
Four repositionable lenses enables to monitoring at minimize blind spots

270-degree view (Full intersection view)

- One multi sensor camera at intersection corner,
 It enables monitoring with minimized blind spots
- Enables to monitoring even if bottom view angle



270-degree + right below view angle adjustment





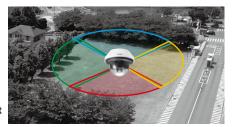


360-degree view

 One multi-sensor camera enables monitor the park by minimize blind spots



360-degree view angle adjustment









Usability - Easy setting

Installation time can be reduced by confirming live image and adjusting viewing angle with smartphone or tablet device via Wi-Fi connection.



Insert USB Wi-Fi device* to the USB terminal on multi-sensor camera

*Be sure to use a Wi-Fi USB adapter that is checked its operability by i-PRO.

[360 deg. Mode]



[Single Screen Mode]

[270 deg. + right below mode]



Select one of "360 deg. View" or "270 deg. + Right below view", check the live images of 4 cameras at the same time, and adjust the angle of the camera.

Select the live image of one camera and adjust the zoom and focus.

Specifications

Sher	ifications				
Camera	Image Sensor	1/2.8 type CMOS image sensor			
	Minimum Illumination	Color : 0.05 lx, BW : 0.03 lx			
		(50IRE, F2.0, Maximum shutter : Off (1/30s), AGC : 11)			
		Color: 0.003 lx, BW: 0.002 lx			
		(50IRE, F2.0, Maximum shutter : max. 16/30s, AGC : 11) *1			
	Intelligent Auto	On / Off			
	Maximum shutter	30 fps mode: Max.1/10000s to Max.16/30s			
	Waxiinain Shattoi	25 fps mode: Max.1/10000s to Max.16/25s			
	Super Dynamic	On / Off, The level can be set in the range of 0 to 31.			
	Dynamic Range	Max.120 dB typ. (Super Dynamic : On, level : 31)			
	Image Settings	Gain (AGC), White balance			
	Image Compensation	Adaptive black stretch, Back light compensation (BLC),			
	image Compensation	High light compensation (HLC), Fog compensation,			
	0.1. (D) 4. (10D)	Digital noise reduction			
	Color/BW (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)			
	Video Motion Detection (VMD)	On / Off, 4 areas available			
	Privacy Zone	On / Off, up to 8 zones available			
	Upside-down	On / Off			
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)			
	Adjusting angle	Camera 1, 2, 3:			
		Horizontal (PAN) angle : 360 °			
		Vertical (TILT) angle : +30 ° to + 80 °			
		Azimuth (YAW) angle: ±50 °			
		Camera 4:			
		Horizontal (PAN) angle : 360 $^\circ$ Vertical (TILT) angle : –15 $^\circ$ to + 80 $^\circ$			
		Azimuth (YAW) angle: ±50 °			
		*The above is the adjustable range of a single camera. The adjustable range of each camera varies according to the			
		positional relationship with other cameras.			
Lens	Zoom Ratio	2.5x Optical zoom (Motorized zoom / Motorized focus)			
		7.5x Extra Optical Zoom (when resolution is 640x360)			
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4			
	Focal length	2.9 mm - 7.3 mm {1/8 inches - 7/32 inches}			
	Maximum Aperture Ratio	1 : 2.0 (WIDE) – 1 : 3.0 (TELE)			
	Focus range	1.5 m {4.92 feets} – ∞			
	Angular Field of view	[16:9] Horizontal: 45 ° (TELE) – 104 ° (WIDE)			
	with one lens	Vertical : 25 ° (TELE) - 58 ° (WIDE)			
DORI	Detect (25ppm / 8ppf)	Wide: 30 m / 98.4 ft, Tele: 92.7 m / 304.2 ft			
	Observe (62.5ppm / 19ppf)	Wide: 12 m / 39.4 ft, Tele: 37.1 m / 121.7 ft			
	Recognize (125ppm / 38ppf)	Wide: 6 m / 19.7 ft, Tele: 18.5 m / 60.8 ft			
	Identify (250ppm / 76ppf)	Wide: 3 m / 9.8 ft, Tele: 9.3 m / 30.4 ft			
Browser	Camera Control	Brightness			
GUI	GUI/	English, Italian, French, German, Spanish, Portuguese, Russian,			
	Setup Menu Language	Chinese, Japanese			
Network	Network IF	10Base-T / 100Base-TX / 1000Base-T, RJ45 connector			
	Resolution	[16:9 mode] *Cannot be changed.			
	with one lens	1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180			
	H.265/ Transmission Mode				
	H.264*2 Transmission Type	Unicast port(AUTO) / Unicast port(MANUAL) / Multicast			
	JPEG Image Quality	10 steps			
	Smart Coding	GOP (Group of pictures) control:			
	-	On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off			
		*On (Frame rate control) and On (Advanced) are only available with H.265.			
		Auto VIQS : On / Off			
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Network	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL / TLS, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, IGMP, ARP, IEEE 802.1X, DiffServ, MQTT"3, LLTP' IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL / TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, MQTT"3, LLTP"3 Up to 24 users (Depends on network conditions)			
	Maximum concurrent access number				
	SDXC/SDHC/SD	H.265 / H.264 recording :			
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC			
	,	Compatible SDXC/SDHC/SD card :			
		i-PRO 32 GB*, 64 GB**, 128 GB**, 256 GB**, 512GB** model			
		*SDHC card, ** SDXC card (except miniSD card and microSD card)			
	Mobile Terminal Compatibility				
	ONVIF® Profile	G/S			
Alarm	Alarm Source	VMD alarm, Command alarm			
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,			
		HTTP alarm notification, Indication on browser,			
		TCP alarm notification output			
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1			
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024			
	Power Source and	PoE+ (IEEE802.3at compliant):			
	Power Consumption	DC 54V 390 mA, Approx. 22 W(Class4 device)			
	Ambient Operating	-40 °C to +60 °C {-40 °F to +140 °F}			
	Temperature	{Power On range : -20 °C to +60 °C (-4 °F to +140 °F)}			
	Ambient Operating Humidity	10 to 100 % (no condensation)			
	Dehumidification Device	Rosahl element			
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant			
	Shock Resistance	IK10 (IEC62262)			
	Wind Resistance	Up to 40 m/s {approx. 89 mph}			
	Dimensions	When using the attachment plate only:			
		ø230 mm x 196 mm (H) {ø9-1/16 inches x 7-23/32 inches (H)},			
		Dome radius 80 mm {3-5/32 inches}			
	Mass (approx.)	When using the attachment plate only: Approx. 2.7 kg {5.95 lbs}			
	Finish	Main body : Aluminum die cast, i-PRO white,			
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)			
		Dome cover: Polycarbonate resin (with ClearSight coating), Clear			

Appearance

Unit : mm (inches) 46 ±0.2(1-13/16") 430(16-15/16") <Removing Dome cover> 120(4-23/32") 265(10-7/16") ø155(6-3/32") 196(7-23/32") 194(7-5/8") SR80 (3-5/32") ø230(ø9-1/16") <With Attachment plate>

^{*1} Converted value
*2 H.265/H.264 can be selected for each stream.
*3 It may be necessary to upgrade the firmware to use these protocols.

Optional Accessories

■ Mount Bracket / Other

	WALL	POLE	CORNER	HANGING	CEILING		OTHER
combination	1	1	1	1	1	2	1
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A *For indoor installation only.	Attachment pipe (For 3rd party bracket) WV-QAT500-W (i-PRO white)
	Mount Bracket WV-QSR502A-W (i-PRO white)			Mount Bracket WV-QSR502A-W (i-PRO white)			Mount Bracket WV-QSR502A-W (i-PRO white)
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- 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.

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