

WV-S25700-V2LN1

New S-series wide lineup high resolution network camera with AI engine

4K Vandal Resistant Outdoor Dome Network Camera

Equipped with an AI processor, it can run up to three AI analytics applications (AI apps) simultaneously, which significantly improve the detection rate of people and vehicles and can be used in a wide range of surveillance scenes. It realizes high-quality and clearer images even in low-light and wide-range shooting scenes.

3 AI Apps operation at same time

- Up to 3 Al apps can be operated at the same time from the wide variety.
 Using Al processor which identifies object as people or vehicle, it will reduce false alarm compared to conventional model.
 As result, it can be used many industries.

High image quality / High compression

- Our original smart coding technology compatible with H.264 and H.265 delivers high-resolution video at high image quality and low bit rate. Achieved useful images by combining with highly visible images by the intelligent auto (iA) function.

Easy setting and installation

- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box.*

The grommet on the outdoor model can reduce the time and effort required for installation.

User-friendly GUI (setting while watching Live view, etc.) allows you to set comfortably.

iCT tool allows you to set multiple cameras, apps, and recorders all at once, reducing the camera setting time.

*The kitting process should be done within 1hour. The inside of the camera gets hot and may cause a malfunction.

High security

- Equipped with FIPS 140-2 level 3 certified hardware in addition to the digital certificate issued by a third party organization (GlobalSign®).

Key i-PRO Spec.

- 4K
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.04 to 0.06 lx)
- Smart Coding (with Al Engine)
- ClearSight Coating
- Built-in IR LED
- 50J, IK10 Vandal Resistant
- ONVIF® Profile G / M / S / T
 *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Safe Cities
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
- Retail / Logistics / Education / Hospital / Building





Specifications

Spec	ifica	tions					
Camera	Image S	ensor	Approx. 1/1.8 type CMOS image sensor				
	Minimu	m Illumination	Color: 0.04 lx (30IRE, F1.5, 1/30s) *1				
			Color: 0.06 lx (50IRE, F1.5, 1/30s)				
			BW: 0.03 lx (50IRE, F1.5, 1/30s)				
			BW: 0 lx (50IRE, F1.5,1/30s with IR LED)				
	White B	lalance	ATW1 / ATW2 / AWC				
	Shutter	Speed	[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix				
Intelligent Auto			[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix On / Off				
	Dynamic Range		Max.132 dB (Super Dynamic : On, Level 31)				
	Adaptiv	e Black Stretch	The level can be set in the range of 0 to 255.				
	Back light compensation /		BLC (Back light compensation) / HLC (High light compensation) / Off				
	High light compensation		(only when Super dynamic / Intelligent Auto : Off)				
	Fog compensation		On / Off (only when Intelligent auto / auto contrast adjust : Off)				
		ım gain (AGC)	The level can be set in the range of 0 to 11.				
	Color/B		Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /				
	C010175	·· (ren)	Auto2 (IR Light On) / Auto3 (SCC)				
	IR LED L	ight	High / Middle / Low / Off,				
			Maximum irradiation distance : 70 m {Approx. 230 ft} (30IRE) *1				
			50 m (Approx. 230 ft) (30IRE)				
	Digital I	Noise Reduction	The level can be set in the range of 0 to 255.				
		otion Detection (VMD)	On / Off, 4 areas available				
		ange Detection (SCD)	On / Off, 1 areas available				
		etection	On / Off				
		d Classification	Gunshot, Yell, Vehicle horn, Glass break				
	Al Analy		Yes				
	Privacy Zone		On / Off, Up to 8 zones available				
	VIQS	ZOTIE	On / Off, Up to 8 zones available				
Image rotation*2			0°/90°/180°/270°				
			On / Off, Up to 40 characters (alphanumeric characters, marks)				
	Camera Title (OSD) Focus Adjustment		Auto focus				
Lens	Optical zoom		2.0x (Motorized zoom / Motorized Focus)				
Lens	- '		2.0x -6.0x (when resolution is 1280 x 720)				
	Extra zoom		4.3 - 8.6 mm {5/32 inches - 11/32 inches}				
	Focal length Angular Field of View		[16:9 mode] *[4:3 mode] is not supported.				
	Angular Field of View		Horizontal : 52° (TELE) – 101° (WIDE), Vertical : 29° (TELE) – 55° (WIDE)				
	Maximum Aperture Ratio		1:1.5 (WIDE) - 1:2.4 (TELE)				
			1. 1.5 (WIDE) = 1. 2.4 (TELE) 1.0 m {39-3/8 inches} - ∞				
DORI	Focus range Detect (25ppm / 8ppf)		Wide: 63.3 m / 207.7 ft, Tele: 157.5 m / 516.6 ft				
DOKI	Observe (62.5ppm / 19ppf)		Wide: 63.3 m / 207.7 ft, Tele: 157.5 m / 516.6 ft				
	Recognize (125ppm / 38ppf)		Wide: 25.3 m / 83.1 ft, Tele: 63.0 m / 206.6 ft Wide: 12.7 m / 41.5 ft, Tele: 31.5 m / 103.3 ft				
	Identify (250ppm / 76ppf)		Wide: 12.7 m / 41.5 ft, Tele: 31.5 m / 103.3 ft Wide: 6.3 m / 20.8 ft, Tele: 15.7 m / 51.7 ft				
System o	on Chip (SoC)		Wide: 6.3 m / 20.8 π, Tele: 15.7 m / 51.7 π				
Adjusting		300)	Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100°				
	r Camera Control		Brightness, AUX On / Off				
GUI	Audio	Control	Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High				
	Addio		Audio Output : On / Off Volume adjustment : Low / Middle / High				
	CIII / Sotup Monu Languago		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese				
	GUI / Setup Menu Language Browser*3		Microsoft Edge, Firefox, Google Chrome				
Natural			3				
Network			10Base-T / 100Base-TX, RJ45 connector				
	Resolution H.265/ H.264/ JPEG (MJPEG)		[16 : 9 mode (30 fps mode)][16 : 9 mode (25 fps mode)]				
			3840x2160/2560x1440/1920x1080/1280x720/640x360/320x180				
		Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort				
	H.264*4 Transmission Type		Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps				
		Image Quality					

^{*1} Converted value

letwork Smart Coding GOP(Group of pictures) control: Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/1s key-frame) / Frame rate control (Variable GOP 4s-16s with frame rate control) *Advanced and Frame rate control are only available with H.265 Smart VIQS: On (High)/On (Low)/Off, Smart P-picture control: On/Off Audio Compression G.726 (ADPCM): 16 kbps / 32 kbps AAC-LC¹⁵ : 64 kbps / 96 kbps / 128 kbps
Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
IPV6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, Audio transmission mode Supported Protocol DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDF IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP No. of Simultaneous Users Up to 14 users (Depends on network conditions FIPS 140-2 level3 SDXC/SDHC/SD H.265 | H.264 recording : Manual REC | Alarm REC (Pre/Post) | Schedule REC | Backup upon network failure Memory Card JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB microSD memory card: 2 GB iPad, iPhone(iOS 8.0 or later), Android™ terminals Mobile Terminal Compatibility ONVIF® Profile G/M/S/T Alarm Alarm Source 3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification Alarm Actions HTTP alarm notification Indication on browser, TCP alarm notification output Input/ Output Monitor Output VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack (for adjustment) Audio input*6 An NTSC or PAL signal can be outputted from camera ø3.5 mm stereo mini jack Recommended applicable microphone : Plug-in power typ (Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V Input level : Approx. –10 dBV For line input Audio Output*6 ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV External I/O Terminals*6 ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 General Safety FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035 DC power supply 6: DC12 V 1.0 A, Approx. 12.0 W PoE (IEEE802.3af compliant) Device : DC48 V 240 mA, Approx. 11.5 W (Class 0 device) EMC Power Source and Power Consumption Ambient Operating -40 °C to +60 °C (-40 °F to 140 °F)*7 (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) Temperature nt Operating Humidit 10 to 100 % (no condensation) Anti-Condensation System Temish element + Heater + moisture absorption gel Water and Dust Resistance IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant

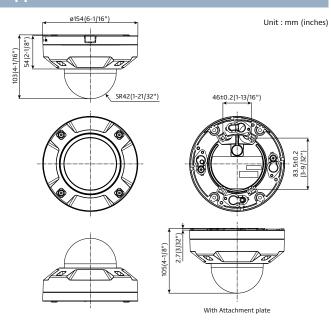
Approx. 1.1 kg {2.43 lbs.}

50J (IEC 60068-2-75 compliant), IK10 (IEC62262)

ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)}

Main body: Aluminum die cast, Black
Outer fixing screws: Stainless steel (Corrosion-resistant treatment)
Dome section: Polycarbonate resin, Clear (with ClearSight coating)

Appearance



Al Analytics applications

https://i-pro.com/global/en/surveillance/products/i-pro-ai-application

Al Video Motion Detection (AI-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

Al Privacy Guard

Shock Resistance

Mass (approx.)

To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.

AI Face Detection

Detects faces with high precision even in low-light, backlit, and mask-wearing environments.

Al People Detection

Extract the characteristics of human face / clothing and classify them into meaningful categories such as gender, age, and clothing color.

AI Vehicle Detection

 $\label{thm:extract} \textbf{Extract vehicle characteristics and classify them into meaningful categories such as type and color.}$

Al Non mask Detection

Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

AI Occupancy Detection

Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

3rd party applications are also available.

https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list

^{*2} When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

^{*3} For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.
*4 Transmission for 4 streams can be individually set.

^{*5} When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*6 When using with these. WV-OCA501A cable is required.

^{*7} When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

Optional Accessories

Fiber Optic Media Converter Unit

er-optic Media Converter Unit Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.

WV-S25F1



•	Basic	specifications
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•	
Power source	24 V AC(50 Hz/60 Hz)
Ambient Operating Temperature :	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})
Ambient Operating Humidity:	10 % to 100 %(no condensation)
Waterproof	IP66(IEC60529)
Shock resistance	IK10(IEC62262)

*This unit requires an SFP module.

*Refer to website for compatible SFP modules, https://i-pro.com/global/en/surveillance/training-support/support/technical-information <Control No.: C0504>

• Support specifications for SFP module

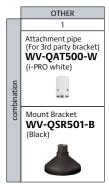
SFP Port Type	LC type
Ethernet Speed	100/1000 Mbps
Supply voltage, current	3.3 V typical, Max. 300 mA
SFP Cage	Standard mini-SFP cage
	(For 6.5 mm pitch SFP)

■ Mount Bracket / Other

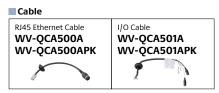
			POLE			
	1 2		3	1		
combination	Wall Mount Bracket WV-QWL501-B (Black) Wall Mount Bracket WV-QWL500-B (Black)		Sun Shade WV-QSR500-W (i-PRO white)	Pole Mount Bracket WV-QPL500-B (Black)		
	Mount Bracket WV-QSR501-B (Black)	Adapter Box WV-QJB500-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	Wall Mount Bracket WV-QWL501-B (Black)	Mount Bracket WV-QSR501-B (Black)	Wall Mount Bracket WV-QWL500-B(Black) (+ WV-QJB500-W) +

[CORNI	ER	HANGING		CEILING		
	1			1	2	1	2	3
combination	Corner Mount Bracket WV-QCN500-W (i-PRO white)			Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-B *1 (Black) *For indoor installation only.	Ceiling Mount Bracket (Embedded) WV-QEM500-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A *For indoor installation only.
com	Wall Mount Bracket WV-QWL501-B (Black)	Mount Bracket WV-QSR501-B (Black)	Wall Mount Bracket WV-QWL500-B(Black) (+ WV-QJB500-W) +	Mount Bracket WV-QSR501-B (Black)	3rd.parties pipe			

^{*1:} It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.







- *WV-QCA500APK and WV-QCA501APK are package of 10 cables.
- *The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.

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

