

WV-S22700-V2L WV-S22700-V2LG

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

4K Vandal Resistant Indoor Dome Network Camera

The 5MP/6MP/4K varifocal lens model, a high-resolution network camera will be added to the lineup of the well-established new S series.

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. With the released of total 34 models, including fixed focus, black body, smoke dome, and derivative models such as heavy salt damage resistant models, to support a wide variety of security monitoring applications.

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)
 (-V2LG: 0.12 to 0.17 lx)
- Smart Coding (with Al Engine)
- Built-in IR LED
- Vandal Resistant
- ONVIF® Profile G / M / S / T
 *ONVIF is a trademark of ONVIF. Inc.

Industry examples

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building





WV-S22700-V2LG (Smoke Dome)



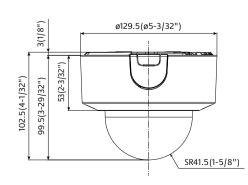
Unit: mm (inches)

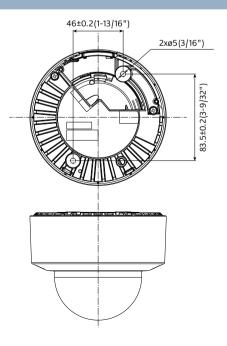
Specifications

Camera	Image S	ensor	Approx. 1/1.8 type CMOS image sensor		
	Minimum Illumination		Color: 0.04 lx (-V2LG: 0.12 lx) (30IRE, F1.5, 1/30s) *1		
			Color: 0.06 lx (-V2LG: 0.17 lx) (50IRE, F1.5, 1/30s)		
			BW: 0.03 lx (-V2LG: 0.09 lx) (50IRE, F1.5, 1/30s)		
			BW: 0 lx(50IRE, F1.5,1/30s with IR LED)		
	White Balance		ATW1 / ATW2 / AWC		
	Shutter Speed Intelligent Auto		[30fps/15fps mode] 1/30 Fix to 1/10000 Fix [25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix On / Off		
		ynamic*2	On / Off, The level can be set in the range of 0 to 31.		
	Dynamic Range		Max.132 dB (Super Dynamic : On, Level 31)		
	Adaptive 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)		
	'				
	Maximum gain (AGC)		The level can be set in the range of 0 to 11.		
	Color/BW (ICR)		Off On (IR Light Off) On (IR Light On) Auto1 (IR Light Off) Auto2 (IR Light On) Auto3 (SC		
	IR LED Light		High / Middle / Low / Off,		
			Maximum irradiation distance : 50 m {Approx. 164 ft} (30IRE) *1		
			35 m {Approx. 115 ft} (50IRE)		
			(-V2LG) : 35 m {Approx. 115 ft} (30IRE) *1		
			25 m {Approx. 82 ft} (50IRE)		
		loise Reduction	The level can be set in the range of 0 to 255.		
	Video Motion Detection (VMD)		On / Off, 4 areas available		
	Scene Change Detection (SCD)		On / Off, 1 areas available		
	Audio D	etection	On / Off		
	Al Sound	d Classification	Gunshot, Yell, Vehicle horn, Glass break		
	Al Analytics		Yes		
	Privacy Zone		On / Off, Up to 8 zones available		
	VIQS		On / Off, Up to 8 zones available		
	Image rotation*3		0°/90°/180°/270°		
Camera Title (OSD)			On / Off, Up to 40 characters (alphanumeric characters, marks)		
	Focus Adjustment		Auto focus		
Lens	Optical zoom		2.0x (Motorized zoom / Motorized Focus)		
	Extra zoom		2.0x - 6.0x (when resolution is 1280 x 720)		
	Focal le	nath	4.3 - 8.6 mm {5/32 inches - 11/32 inches}		
	Angular Field of View		[16:9 mode] *[4:3 mode] is not supported.		
	7 angular ricia or view		Horizontal: 52° (TELE) – 101° (WIDE), Vertical: 29° (TELE) – 55° (WIDE)		
	Maximum Aperture Ratio		1:1.5 (WIDE) -1:2.4 (TELE)		
	Focus ra		1.0 m {39-3/8 inches} - ∞		
DORI		(25ppm / 8ppf)	Wide: 63.3 m / 207.7 ft, Tele: 157.5 m / 516.6 ft		
DOM		(62.5ppm / 19ppf)	Wide: 25.3 m / 83.1 ft, Tele: 63.0 m / 206.6 ft		
		ze (125ppm / 38ppf)	Wide: 12.7 m / 41.5 ft, Tele: 31.5 m / 103.3 ft		
		(250ppm / 76ppf)	Wide: 6.3 m / 20.8 ft, Tele: 15.7 m / 51.7 ft		
System o			Ambarella CV22		
Adjusting		oc)	Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°		
Browser	Camera	Cantani	Brightness, AUX On / Off		
		Control	3 1		
GUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
			Audio Output : On / Off Volume adjustment : Low / Middle / High		
		up Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japane		
	Browser *4		Microsoft Edge, Firefox, Google Chrome		
Network			10Base-T / 100Base-TX, RJ45 connector		
	Resolution		[16:9 mode (30 fps mode)][16:9 mode (25 fps mode)]		
		H.264/ JPEG (MJPEG)	3840x2160/2560x1440/1920x1080/1280x720/640x360/320x180		
		Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort		
		Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		
	JPEG Image Quality		10 steps		
	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)		
			France rate control (variable GOP 45-105 with frame rate control)		
			*Advanced and Frame rate control are only available with H.265.		

Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps		
		G.711 : 64 kbps		
		AAC-LC*7 : 64 kbps / 96 kbps / 128 kbps		
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /		
		Interactive (Full duplex)		
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPV1/v2/v3, 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)		
	Secure	FIPS 140-2 level3		
	SDXC/SDHC/SD	H.265 / H.264 recording :		
	Memory Card	Manual REC / Alarm REC [Pre/Post) / Schedule REC / Backup upon network failure 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		
	Mobile Terminal Compatibility	iPad, iPhone(iOS 8.0 or later), Android™ terminals		
	ONVIF® Profile	G/M/S/T		
Alarm	Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,		
		HTTP alarm notification Indication on browser,		
		TCP alarm notification output		
Input/	Monitor Output	VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack		
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera		
	Audio input	ø3.5 mm stereo mini jack		
	For microphone input :	Recommended applicable microphone : Plug-in power type		
		(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		
	For line input :	Input level : Approx. –10 dBV		
	Audio Output	ø3.5 mm stereo mini jack (monaural output)		
		Output impedance : Approx. 600 Ω (unbalanced)		
		Output level : -20 dBV		
	External I/O Terminals	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)		
General	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1		
	EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035		
	Power Source and	DC power supply : DC12 V 1.0 A, Approx. 12.0 W		
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 240 mA, Approx. 11.5 W (Class 0 device		
	Ambient Operating	-10 °C to +50 °C (14 °F to 122 °F)		
	Temperature	(Power On range: 0 °C to 50 °C {32°F to 122 °F})		
	Shock Resistance	IK10 (IEC 62262)		
	Ambient Operating Humidity	10 to 90 % (no condensation)		
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}		
		Dome radius 41.5 mm {1-5/8 inches}		
	Mass (approx.)	800 g {1.77 lbs.}		
	Finish	Main body : Aluminum die cast, i-PRO white		
		Dome cover : Polycarbonate resin, Clear (-V2LG : Smoke)		

Appearance





[&]quot;2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

"3 When 60 fps or 50 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90°" and "270°" settings are not available.

When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

when the 320x100 resolution is used, the 90 and 270 settings are not available.

*4 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.

*5 Used by super resolution techniques.

*6 Transmission for 4 streams can be individually set.

^{*7} When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

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

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.

3rd party applications are also available.

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

AI Vehicle Detection

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.

Optional Accessories

■ Mount Bracket / Other

	mount Bracket Other									
	W	ALL	POLE	CORNER						
	1	2	1	1						
combination	Wall Mount Bracket WV-QWL500-W (White)	Wall Mount Bracket WV-QWL501-W (White)	Pole Mount Bracket PAPM4W (White)	Corner Mount Bracket PACA4W (White)						
	Adapter Box WV-QJB500-W (White)	Mount Bracket WV-QSR501-W (White)	Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W)	Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W)						
	*If needed.		+	+						

	HAN	GING	CEILING		
combination	1	2	1	2	
	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W '1 (White)	Ceiling Mount Bracket WV-Q105A	Ceiling Mount Bracket (Embedded) WV-QEM100-W (White)	
	Mount Bracket WV-QSR501-W (White)	This bracket requires 1½" NPT pipe.			

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

Dome Cover



Trademarks and registered trademarks

- GlobalSign and the GlobalSign Logo are registered trademarks of GMO GlobalSign K.K.
- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google LLC.
- ONVIF is a trademark of ONVIF, Inc.
- 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.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

