

WV-S25600-V2LN

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

6MP 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.

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.

- 6MF
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.04 to 0.06 lx)
- Smart Coding (with AI 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





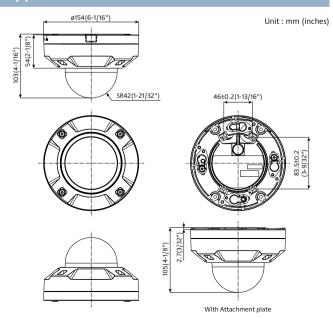
Specifications

spec	ificat	lions				
Camera	Image Se	nsor	Approx. 1/1.8 type CMOS image sensor			
	Minimum 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 Ba	lance	ATW1 / ATW2 / AWC			
	Shutter Speed		[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix			
			[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix			
	Intelligent Auto		On / Off			
	Super Dynamic		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) /			
	COIOI/DVV (ICK)		Auto2 (IR Light On) / Auto3 (SCC)			
	IR LED Light		High / Middle / Low / Off,			
	IR LED Light					
			Maximum irradiation distance : 70 m (Approx. 230 ft) (30IRE) *1			
	Distant N	-i D-ddi	50 m {Approx. 164 ft} (50IRE)			
	Digital Noise 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 Detection		On / Off			
	Al Sound Classification		Gunshot, Yell, Vehicle horn, Glass break			
	Al Analytics		Yes Tark to the second state of the second s			
	Privacy Zone		On / Off, Up to 8 zones available			
	VIQS		On / Off, Up to 8 zones available			
	Image rotation*2		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 length		4.3 - 8.6 mm {5/32 inches - 11/32 inches}			
	Angular Field of View		[16:9 mode] *[4:3 mode] is not supported.			
			Horizontal : 52° (TELE) – 101° (WIDE), Vertical : 29° (TELE) – 55° (WIDE)			
	Maximum Aperture Ratio		1:1.5 (WIDE) - 1:2.4 (TELE)			
	Focus range		1.0 m {39-3/8 inches} - ∞			
DORI	Detect (25ppm / 8ppf)		Wide: 54.9 m / 180.0 ft, Tele: 136.5 m / 447.7 ft			
	Observe (62.5ppm / 19ppf)		Wide: 21.9 m / 72.0 ft, Tele: 54.6 m / 179.1 ft			
	Recognize (125ppm / 38ppf)		Wide: 11.0 m / 36.0 ft, Tele: 27.3 m / 89.5 ft			
	Identify (250ppm / 76ppf)		Wide: 5.5 m / 18.0 ft, Tele: 13.6 m / 44.8 ft			
System on Chip (SoC)		oC)	Ambarella CV22			
Adjusting	ng Angle		Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100°			
Browser	Camera Control		Brightness, AUX On / Off			
GUI	Audio		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High			
			Audio Output : On / Off Volume adjustment : Low / Middle / High			
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese			
	Browser*3		Microsoft Edge, Firefox, Google Chrome			
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector			
	Resolution		[16 : 9 mode (30 fps mode)][16 : 9 mode (25 fps mode)]			
	H.265/ H.264/ JPEG (MJPEG)		3328x1872/2560x1440/1920x1080/1280x720/640x360/320x180			
	H.265/ Transmission Mode		Constant bit rate / VBR / Frame rate / Best effort			
		Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast			
	JPEG Image Quality		10 steps			
		50 Quanty				

^{*1} Converted value

Jetwork 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 : 64 kbps AAC-LC*5 : 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 DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDP 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 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 terminals input, VMD alarm, Command alarm, Audio detection alarm 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 (for adjustment) Audio input*6 An NTSC or PAL signal can be outputted from camera ø3.5 mm stereo mini iack 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*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 Power Source and 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) 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 Ambient Operating Humidity 10 to 100 % (no condensation) Temish element + Heater + moisture absorption gel Anti-Condensation System Water and Dust Resistance IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant 50J (IEC 60068-2-75 compliant), IK10 (IEC62262) Shock Resistance ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)} Mass (approx.) Approx. 1.1 kg {2.43 lbs.} Main body : Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Dome section: Polycarbonate resin, Clear (with ClearSight coating)

Appearance



AI Analytics applications

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

Al Video Motion Detection (Al-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.

Al Face Detection

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

AI 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.

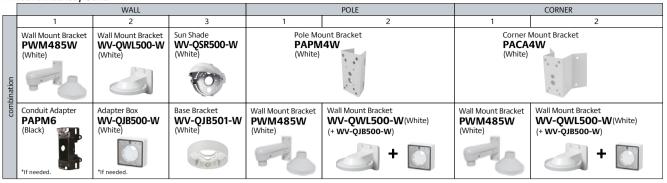
^{*5} When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

^{*6} When using with these, WV-QCA501A 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

■ Mount Bracket / Other



		HANGING		PARAPET	CEILING		
combination	1	2	3	1	1	2	3
	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W (White) *For indoor instalation only.	Ceiling Mount Bracket WV-QCL101-W *1 (White) *For indoor instalation only.	Parapet Mount Bracket PPRM35W (White)	Ceiling Mount Bracket (Embedded) WV-QEM500-W (White)	Base Bracket WV-QJB501-W (White)	Ceiling Mount Bracket WV-Q105A *For indoor instalation only.
	Mount Bracket WV-QSR501-W (White)	Mount Bracket PS485W (White)	This bracket requires 1 ½" NPT pipe.	Mount Bracket PS485W (White)			

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

■ Dome Cover







- *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.

- **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.



(2A-349AL)