

# WV-S25500-F3L

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

# **5MP 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.

- 5MP
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.12 to 0.17 lx)
- Smart Coding (with AI Engine)
- 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

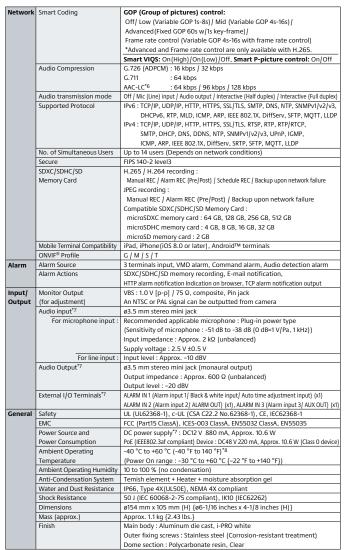




## Specifications

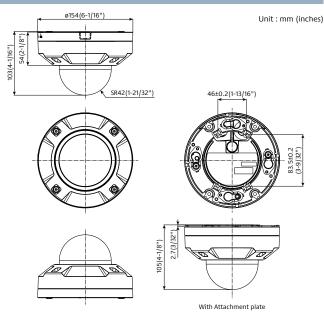
Speci	ifications				
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor			
	Minimum Illumination	Color : 0.12 lx (30IRE, F2.0, 1/30s) *1			
		Color: 0.17 lx (50IRE, F2.0, 1/30s)			
		BW: 0.1 lx (50IRE, F2.0, 1/30s)			
		BW: 0 lx (50IRE, F2.0,1/30s with IR LED)			
	White Balance	ATW1 / ATW2 / AWC			
	Shutter Speed	[30 fps] 1/30 Fix to 1/10000 Fix			
	Shatter speed	[25 fps] 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)			
		The level can be set in the range of 0 to 255.			
	Adaptive Black Stretch	BLC (Back light compensation) / HLC (High light compensation) / Off			
	Back light compensation /				
	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 (SCC)			
	IR LED Light	High / Middle / Low / Off,			
		Maximum irradiation distance: 35 m {Approx. 115 ft} (30IRE) *1			
		25 m (Approx. 82 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			
	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)			
Lens	Optical zoom	1x			
	Extra zoom	1x - 3x (when resolution is 640 x 360)			
	Focal length	3.2 mm {1/8 inches}			
	Angular Field of View	[16 : 9 mode]			
		Horizontal : 95°, Vertical : 52			
		[ 4:3 mode]			
		Horizontal : 95°, Vertical : 70°			
	Maximum Aperture Ratio	1:2.0			
	Focus range	1.0 m {39-3/8 inches} - ∞			
DORI	Detect (25ppm / 8ppf)	56.3 m / 184.7 ft			
DOM	Observe (62.5ppm / 19ppf)	22.5 m / 73.9 ft			
	Recognize (125ppm / 38ppf)	11.3 m / 36.9 ft			
	Identify (250ppm / 76ppf)	5.6 m / 18.5 ft			
C		1			
	n Chip (SoC)	Ambarella CV22			
Adjusting		Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100°			
Browser GUI	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			
		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese			
	GUI / Setup Menu Language				
	Browser*3	Microsoft Edge, Firefox, Google Chrome			
Network	Browser*3 Network IF	Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector			
Network	Browser*3	Microsoft Edge, Firefox, Google Chrome			
Network	Browser*3 Network IF	Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector			
Network	Browser*3 Network IF Resolution	Microsoft Edge, Firefox, Google Chrome  10Base-T / 100Base-TX, RJ45 connector  [16:9 mode (30 fps mode)][16:9 mode (25 fps mode)]			
Network	Browser*3 Network IF Resolution	Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, R145 connector [16:9 mode (25 fps mode)] 16:9 mode (25 fps mode)] 3072x1728*4/2560x1440/1920x1080/1280x720/640x360/320x180			
Network	Browser*3 Network IF Resolution	Microsoft Edge, Firefox, Google Chrome  10Base=T / 10DBase=TX, RI45 connector  [16:9 mode (30 fps mode)][16:9 mode (25 fps mode)]  3072x1728-4/2560x1440/1920x1080/1280x720/640x360/320x180  [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)]			
Network	Browser'3 Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Microsoft Edge, Firefox, Google Chrome  108ase-T / 1008ase-TX, RI45 connector  [16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)]  3072x1728*4/2560x1440/1920x1080/1280x720/640x360/320x180  [4:3 mode (30 fps mode)] [4:3 mode (25 fps mode)]  3072x2304*4/2560x1920/1280x960/800x600/VGA/400x300/320x240			
Network	Browser'3 Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Microsoft Edge, Firefox, Google Chrome  10Base-T / 10DBase-TX, RI45 connector [16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)]  3072x1728*4/2560x1440/1920x1080/1280x720/640x360/320x180 [4:3 mode (30 fps mode)] [4:3 mode (25 fps mode)]  3072x2304*4/25660x1920/1280x960/800x600/VGA/400x300/320x240  Constant bit rate   VBR / Frame rate / Best effort			

<sup>\*1</sup> Converted value



<sup>\*6</sup> When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
\*7 When using with these, WV-QCA501A cable is required.

# **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)

## **AI 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.

#### Al People Detection

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

#### Al Vehicle Detection

Extract vehicle characteristics and classify them into meaningful categories such as type and color.

#### Al Non mask Detection

## **Al 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.

 $https: \hbox{$//$i-pro.com/global/en/surveillance/i-pro-application-platform/application-list}$ 

<sup>\*2</sup> When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

<sup>\*3</sup> For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.
\*4 Used by super resolution techniques

<sup>\*5</sup> Transmission for 4 streams can be individually set.

<sup>\*8</sup> 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

•	
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)

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

\*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>

Mount Bracket / Other

	WALL			POLE		CORNER	
	1 2		3	1		1	
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Sun Shade WV-QSR500-W (i-PRO white)	(i-PRO white)		Corner Mount Bracket WV-QCN500-W (i-PRO white)	
combination	0.		<b>(0)</b>				
шоо	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	WV-QWL501-W(i-PRO white) WV-QSR501-W(i-PRO white)	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W)	WV-QWL501-W(i-PRO white) WV-QSR501-W(i-PRO white)	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W)
	4	*If needed.		+	+	+ 5	+

	HAN	GING		OTHER				
combination	1	2	1	2	3	1		
	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W *1 (i-PRO white) *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.	Attachment pipe (For 3rd party bracket) WV-QAT500-W (i-PRO white)		
	Mount Bracket WV-QSR501-W (i-PRO white)	3rd.parties pipe				Mount Bracket WV-QSR501-W (i-PRO white)		

<sup>\*1:</sup> It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

## Dome Cover



Dome Cover (Smoke type with ClearSight coating) WV-CW7SN





## Cable



I/O Cable WV-QCA501A WV-QCA501APK

\*WV-QCA500APK and WV-QCA501APK are package of 10 cables.

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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.



<sup>\*</sup>The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.