i-PRO

WV-S25500-F6L

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 AI apps can be operated at the same time from the wide variety.
  Using AI 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 (0.08 to 0.11 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)
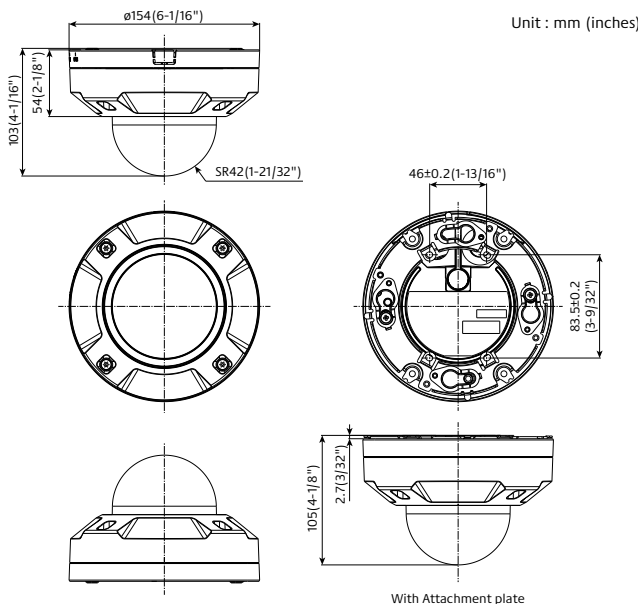- Retail / Logistics / Education / Hospital / Building

S series

Specifications

Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.08 lx (30IRE, F1.6, 1/30s) [*1]
		Color : 0.11 lx (50IRE, F1.6, 1/30s)
		BW : 0.07 lx (50IRE, F1.6, 1/30s)
		BW : 0 lx (50IRE, F1.6,1/30s with IR LED)
	White Balance	ATW1 / ATW2 / AWC
	Shutter Speed	[30 fps] 1/30 Fix to 1/10000 Fix
		[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)
	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 (SCC)
	IR LED Light	High / Middle / Low / Off,
		Maximum irradiation distance : 45 m {Approx. 148 ft} (30IRE) [*1]
		30 m {Approx. 98 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
	AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break
	AI 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	6.1 mm {1/4 inches}
	Angular Field of View	**[16 : 9 mode]**
		Horizontal : 48°, Vertical : 27°
		[4 : 3 mode]
		Horizontal : 48°, Vertical : 36°
	Maximum Aperture Ratio	1 : 1.6
	Focus range	4.0 m {157-15/32 inches} – ∞
DORI	Detect (25ppm / 8ppf)	138 m / 452.7 ft
	Observe (62.5ppm / 19ppf)	55.2 m / 181.1 ft
	Recognize (125ppm / 38ppf)	27.6 m / 90.5 ft
	Identify (250ppm / 76ppf)	13.8 m / 45.3 ft
System on Chip (SoC)		Ambarella CV22
Adjusting Angle		Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100°
Browser GUI	Camera Control	Brightness, AUX On / Off
	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 H.265/ H.264/ JPEG (MJPEG)	**[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
	H.265/ H.264[*5]	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
		Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
	JPEG	Image Quality	10 steps

Network	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
		G.711 : 64 kbps
		AAC-LC[*6] : 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, 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)
	Secure	FIPS 140-2 level3
	SDXC/SDHC/SD Memory Card	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
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/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack
		An NTSC or PAL signal can be outputted from camera
	Audio input[*7]	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[*7]	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
		Output level : –20 dBV
	External I/O Terminals[*7]	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 Power Consumption	DC power supply[*7] : DC12 V 880 mA, Approx. 10.6 W
		PoE (IEEE802.3af compliant) Device : DC48 V 220 mA, Approx. 10.6 W (Class 0 device)
	Ambient Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)[*8]
		(Power On range : –30 °C to +60 °C {–22 °F to +140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Anti-Condensation System	Temish element + Heater + moisture absorption gel
	Water and Dust Resistance	IP66, Type 4X(UL50E), NEMA 4X compliant
	Shock Resistance	50 J (IEC 60068-2-75 compliant), IK10 (IEC62262)
	Dimensions	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.}
	Finish	Main body : Aluminum die cast, i-PRO white
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Dome section : Polycarbonate resin, Clear

*1 Converted value
*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 Used by super resolution techniques
*5 Transmission for 4 streams can be individually set.

*6 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.
*8 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

Appearance

Unit : mm (inches)

ø154(6-1/16")
103(4-1/16")
54(2-1/8")
SR42(1-21/32")
46±0.2(1-13/16")
83.5±0.2 (3-9/32")
2.7(3/32")
105(4-1/8")

With Attachment plate

AI Analytics applications

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

AI 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.

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

AI 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.

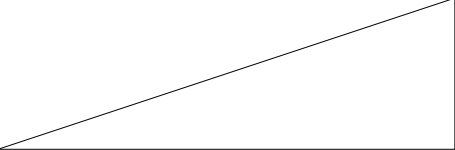3rd party applications are also available.
https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list
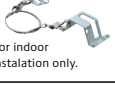
Optional Accessories

■ Mount Bracket / Other

	WALL			POLE		CORNER	
	1	2	3	1	2	1	2
combination	Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White)	Sun Shade **WV-QSR500-W** (White)	Pole Mount Bracket **PAPM4W** (White)		Corner Mount Bracket **PACA4W** (White)	
	Conduit Adapter **PAPM6** (Black) *If needed.	Adapter Box **WV-QJB500-W** (White) *If needed.	Base Bracket **WV-QJB501-W** (White)	Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**) +	Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**) +

	HANGING			PARAPET	CEILING		
	1	2	3	1	1	2	3
combination	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

Dome Cover (Smoke type) **WV-CW7S**	Dome Cover (Smoke type with ClearSight coating) **WV-CW7SN**	Dome Cover (Clear type with ClearSight coating) **WV-CW7CN**

■ Cable

RJ45 Ethernet Cable **WV-QCA500A** **WV-QCA500APK**	I/O Cable **WV-QCA501A** **WV-QCA501APK**

*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.

∷i·PRO
The Power of Truth

i-PRO Co., Ltd.
https://i-pro.com/

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