

WV-S15500-F3L

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

5MP Outdoor Bullet 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
- IK10 Vandal Resistant
- ONVIF® Profile G / M / S / T
 *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building



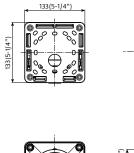


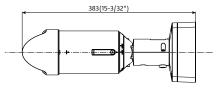
Specifications

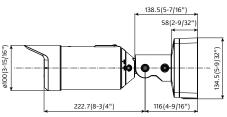
Camera	Image Sensor		Approx. 1/2.8 type CMOS image sensor	
			Color : 0.12 lx (30IRE, F2.0, 1/30s) *1	
	William mullinduon		Color: 0.17 lx (50IRE, F2.0, 1/30s)	
			BW: 0.1 lx (50IRE, F2.0, 1/30s)	
			BW: 0 lx (50IRE, F2.0,1/30s with IR LED)	
	White Balance		ATW1 / ATW2 / AWC	
	Shutter Speed		[30 fps] 1/30 Fix to 1/10000 Fix	
			[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.	
		ht 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,	
		3	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.	
			On / Off, 4 areas available	
	Video Motion Detection (VMD)			
	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 : 98 °, Vertical : 53 °	
			[4:3 mode]	
			Horizontal : 98 °, Vertical : 72 °	
	Maximum Aperture Ratio		1:2.0	
	Focus range		1.0 m {39-3/8 inches} - ∞	
DORI		(25ppm / 8ppf)	53.4 m / 175.2 ft	
DUKI			,	
		(62.5ppm / 19ppf)	21.4 m / 70.1 ft	
		ze (125ppm / 38ppf)	10.7 m / 35 ft	
		(250ppm / 76ppf)	5.3 m / 17.5 ft	
System or			Ambarella CV22	
Adjusting	Ceiling	mounting	Horizontal: ±180 ° (PAN rotation part)	
Angle			Vertical : 0 ° to 100 ° (TILT rotation part)	
			Yaw : -190 ° to +100 ° (YAW rotation part)	
	Wall mo	ounting	Horizontal: ±100 ° (TILT rotation part)*	
			Vertical : ±100 ° (TILT rotation part)*	
			Yaw : -190 ° to +100 ° (YAW rotation part)	
			*You can change between horizontal and vertical angels by adjusting the PAN rotation pa	
Browser	Camera Control		Brightness, AUX On / Off	
GUI	Audio		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High	
	Addio		Audio Output : On / Off Volume adjustment : Low / Middle / High	
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japane	
	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)		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	
			3072X2304 1/2300X1920/1280X900/800X000/VGA/400X300/320X240	
	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort	
	H.265/ H.264*5	Transmission Mode Transmission Type		
			Constant bit rate / VBR / Frame rate / Best effort	

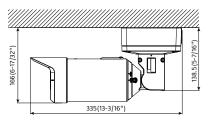
Network	Smart Coding	GOP (Group of pictures) control:	
	_	Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /	
		Advanced (Fixed GOP 60s w/1s key-frame) /	
		Frame rate control (Variable GOP 4s-16s with frame rate control)	
		*Advanced and Frame rate control are only available with H.265.	
		Smart VIQS: On (High) / On (Low) / Off, Smart P-picture control: On / Off	
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps	
	Addio Compression	G.711 : 64 kbps	
		G./Ti : 64 kDps / 96 kDps / 128 kDps Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio transmission mode		
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3,	
	supported Protocol	DHCP06, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLD IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SMMPV1/v2/V3, UPnP, ICMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP Up to 14 users (Depends on network conditions)	
	No. of Simultaneous Users		
	Secure 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 failur 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	
Aldilli	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*7	ø3.5 mm stereo mini jack	
	For microphone input :	Recommended applicable microphone : Plug-in power type	
	Tor inicrophone input.	(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 : Approx10 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) (x	
		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*7 : DC12 V 880 mA, Approx. 10.6 W	
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 220 mA/Approx. 10.6 W (Class 0 device	
	Ambient Operating	-40 °C to + 60 °C (-40 °F to 140 °F)*8	
	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})	
	Temperature	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})	
	Temperature Ambient Operating Humidity	(Power On range : ~30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation)	
	Temperature Ambient Operating Humidity Anti-Condensation System	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater + moisture absorption gel	
	Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater + moisture absorption gel 1P66, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262)	
	Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater + moisture absorption gel 1P66, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262) ø133 mm (W) x 133 mm (H) x 383 mm (D)	
	Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater+ moisture absorption gel IP66, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262) 9133 mm (W) x 133 mm (H) x 383 mm (D) (Ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D))	
	Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions Mass (approx.)	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater + moisture absorption gel 1P66, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262) #133 mm (W) x 133 mm (H) x 383 mm (D) {65-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)} Approx. 2.4 kg {5.3 lbs.}	
	Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Temish element + Heater+ moisture absorption gel IP66, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262) 9133 mm (M) x 133 mm (H) x 383 mm (D) (Ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D))	

Appearance

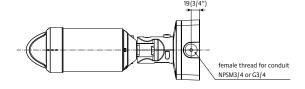








Mounted state after construction



Unit: mm (inches)

^{*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}.

Al 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)

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.

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

Al 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.

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.

Optional Accessories

Mount Bracket

	POLE	CORNER
	1	1
combination	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)

Cable



- * 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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- All other trademarks identified herein are the property of their respective owners.

- 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.

