

WV-S15500-V3L

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 (0.05 to 0.07 lx)
- Smart Coding (with Al 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



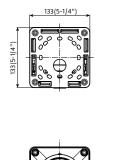


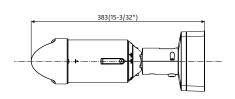
Specifications

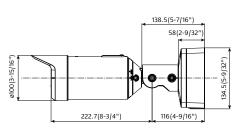
Camera	Image S	ensor	Approx. 1/2.8 type CMOS image sensor	
		m Illumination	Color: 0.05 lx (30IRE, F1.3, 1/30s) *1	
			Color: 0.07 lx (50IRE, F1.3, 1/30s)	
			BW: 0.04 lx (50IRE, F1.3, 1/30s)	
			BW: 0 lx (50IRE, F1.3,1/30s with IR LED)	
	White Balance		ATW1 / ATW2 / AWC	
	Shutter Speed		[30 fps/15 fps 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,	
		.5	Maximum irradiation distance : 55 m {Approx. 180 ft} (30IRE) *1	
			40 m {Approx. 131 ft} (50IRE)	
	Digital Noise Poduction		The level can be set in the range of 0 to 255.	
	Digital Noise Reduction Video Motion Detection (VMD)			
	Video Motion Detection (VMD)		On / Off, 1 areas available	
	Scene Change Detection (SCD) Audio Detection		On / Off	
	Al Sound Classification		Gunshot, Yell, Vehicle horn, Glass break	
			Yes	
	Al Analytics			
	Privacy Zone VIQS		On / Off, Up to 8 zones available On / Off, Up to 8 zones available	
	_	otation*?	0 ° / 90 ° / 180 ° / 270 °	
	Image rotation*2 Camera Title (OSD)			
			On / Off, Up to 40 characters (alphanumeric characters, marks) Auto focus	
Lens	Focus Adjustment Optical zoom		3.1x (Motorized zoom / Motorized Focus)	
Lens	Extra zoom		3.1x - 9.3x (when resolution is 640 x 360)	
			2.9 - 9 mm {1/8 inches - 11/32 inches}	
	Focal length		[16 : 9 mode]	
	Angular Field of View		Horizontal : 34° (TELE) – 106° (WIDE), Vertical : 19° (TELE) – 57° (WIDE)	
			[4:3 mode]	
			Horizontal : 34° (TELE) – 106° (WIDE), Vertical : 25° (TELE) – 77° (WIDE)	
	Maximum Aportura Bati-		1:1.3 (WIDE) - 1: 2.5 (TELE)	
	Maximum Aperture Ratio		0.3 m {11-13/16 inches} - ∞	
DORI	Focus range Detect (25ppm / 8ppf)		Wide: 46.3 m / 151.9 ft, Tele: 201.0 m / 659.3 ft	
DUKI				
		e (62.5ppm / 19ppf)	Wide: 18.5 m / 60.8 ft, Tele: 80.4 m / 263.7 ft Wide: 9.3 m / 30.4 ft, Tele: 40.2 m / 131.9 ft	
		ze (125ppm / 38ppf) (250ppm / 76ppf)	Wide: 9.3 m / 30.4 ft, Tele: 40.2 m / 131.9 ft Wide: 4.6 m / 15.2 ft, Tele: 20.1 m / 65.9 ft	
Custom -				
System or			Ambarella CV22 Horizontal : ±180 ° (PAN rotation part)	
	cennig	mounting	Vertical : 0 ° to 100 ° (TILT rotation part)	
Angle			Yaw : -190 ° to +100 ° (YAW rotation part)	
	Wall mounting		Horizontal: ±100 ° (TILT rotation part)*	
	vvaii ilic	Junung		
			Yaw : -190 ° to +100 ° (YAW rotation part) * You can change between horizontal and vertical angels by adjusting the PAN rotation part	
Drau				
Browser GUI	Camera Control		Brightness, AUX On / Off	
uUI	Audio		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High	
	CIII ' C		Audio Output : On / Off Volume adjustment : Low / Middle / High	
		tup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japane	
	Browse		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 320x24	
	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort	
	H.264 *5	Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast	
		0 10	10 steps	
	JPEG	Image Quality	10 steps	

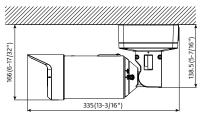
Network	Smart Coding	GOP (Group of pictures) control:	
		Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /	
		Advanced (Fixed GOP 60s w/1s key-frame) /	
		Frame rate control (Variable GOP 4s-16s with frame rate control)	
		*Advanced and Frame rate control are only available with H.265.	
		Smart 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 duple	
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3	
	зарропсаттогосог	DHCPv6, 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, SNMPv1/v2/v3, UPnP, IGMP,	
	N 66' II	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 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	
Alailli	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,	
	/IIIIII/ICUOIIS	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	
output	Audio input*7	ø3.5 mm stereo mini jack	
	For microphone input :	Recommended applicable microphone : Plug-in power type	
	roi illiciophone ilipac.	(Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz))	
		Input impedance : Approx. 2 kΩ (unbalanced)	
		' ' ' ' ' ' ' '	
	For line input :	Supply voltage : 2.5 V ±0.5 V Input level : Approx. –10 dBV	
	Audio Output*7		
	Audio Output	ø3.5 mm stereo mini jack (monaural output)	
		Output impedance : Approx. 600 Ω (unbalanced)	
	F:+	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)	
	5.6.4	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 1.0 A, Approx. 12.0 W	
	Power Consumption	PoE (IEEE802.3af compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 1.5 % Compliant) De	
	Ambient Operating	-40 °C to +60 °C (-40 °F to 140 °F)*8	
	Temperature	(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, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian	
	Shock Resistance	IK10 (IEC 62262)	
	Dimensions	ø133 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)}	
	Mass (approx.)	Approx. 2.4 kg {5.3 lbs.}	
	Finish	Main body: Aluminum die cast and resin, i-PRO white	
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)	
		Front panel : Polycarbonate resin, Clear	

Appearance

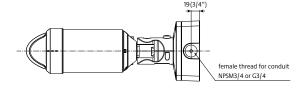








Mounted state after construction



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 (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.

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.

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

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

^{*}These accessories are not complied with ISO14993

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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- Onvir is a trademark of Onvir, 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.

