



WV-S15500-V3LN1

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 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 (0.05 to 0.07 lx)
- Smart Coding (with AI Engine)
- ClearSight Coating
- 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
	Minimum 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
	shatter speed	[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) /
		Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light	High / Middle / Low / Off,
	in the light	Maximum irradiation distance : 55 m {Approx. 180 ft} (30IRE) ^{*1}
		40 m {Approx. 131 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)
	Focus Adjustment	Auto focus
Lens	Optical zoom	3.1x (Motorized zoom / Motorized Focus)
Lens	Extra zoom	3.1x - 9.3x (when resolution is 640 x 360)
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
	Angular Field of View	[16 : 9 mode]
		Horizontal : 34° (TELE) – 106° (WIDE), Vertical : 19° (TELE) – 57° (WIDE)
		[4 : 3 mode]
		Horizontal : 34° (TELE) – 106° (WIDE), Vertical : 25° (TELE) – 77° (WIDE)
	Maximum Aperture Ratio	1:1.3 (WIDE) - 1:2.5 (TELE)
	Focus range	0.3 m {11-13/16 inches} - ∞
DORI	Detect (25ppm / 8ppf)	Wide: 46.3 m / 151.9 ft, Tele: 201.0 m / 659.3 ft
	Observe (62.5ppm / 19ppf)	Wide: 18.5 m / 60.8 ft, Tele: 80.4 m / 263.7 ft
	Recognize (125ppm / 38ppf)	Wide: 9.3 m / 30.4 ft, Tele: 40.2 m / 131.9 ft
	Identify (250ppm / 76ppf)	Wide: 4.6 m / 15.2 ft, Tele: 20.1 m / 65.9 ft
System of	n Chip (SoC)	Ambarella CV22
	Ceiling mounting	Horizontal : ±180 ° (PAN rotation part)
Angle	centry mounting	Vertical : 0 ° to 100 ° (TILT rotation part)
Aligie		
		Yaw : -190 ° to +100 ° (YAW rotation part)
	Wall mounting	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 part.
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
Network	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
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.264 ^{*5} Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
	JPEG Image Quality	10 steps

Network	Smart Coding	GOP (Group of pictures) control:
	5	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	
	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, LLD
		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	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
	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
		(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. 600Ω (unbalanced)
		Output level : -20 dBV
	External I/O Terminals ^{*7}	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x
	External i/O reminais	
		ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)
	- 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 ¹⁷ : 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 device
	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, Black
	1111511	Main body : Aluminum die cast and resin, Black Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Front panel : Polycarbonate resin, Clear (with ClearSight coating)

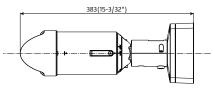
*3 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.

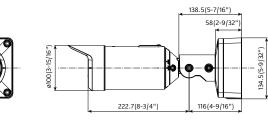
*4 Used by super resolution techniques *5 Transmission for 4 streams can be individually set.

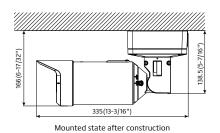
** When ecording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
** When using with these, WV-QCA501A cable is required.
*8 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F).

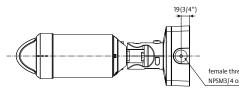
Appearance











female thread for conduit NPSM3/4 or G3/4

Unit : mm (inches)

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.

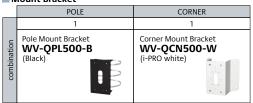
AI People Detection

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

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

Optional Accessories

Mount Bracket





* 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

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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.



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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.