

WV-S22500-V3L1

New S-series wide lineup high resolution network camera with AI engine 5MP Vandal Resistant Indoor 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 (0.05 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

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building





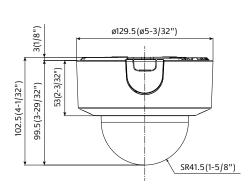
Specifications

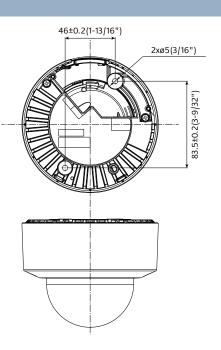
	meations			
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color : 0.05 lx (30IRE, F1.3, 1/30s) *1		
		Color : 0.07 lx (50IRE, F1.3, 1/30s)		
		BW : 0.04 lx (50IRE, F1.3, 1/30s)		
		BW : 0 lx(50IRE, F1.3,1/30s with IR LED) ATW1 / ATW2 / AWC		
	White Balance			
	Shutter Speed	[30fps/15fps mode] 1/30 Fix to 1/10000 Fix		
		[25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix On / Off		
	Intelligent Auto			
	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 (S		
	IR LED Light	High / Middle / Low / Off,		
		Maximum irradiation distance : 40 m {Approx. 131 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 Yes		
	AI Analytics			
	Privacy Zone	On / Off, Up to 8 zones available		
	VIQS	On / Off, Up to 8 zones available 0° 90° / 180° / 270° On / Off, Up to 40 chracters (alphanumeric characters, marks) Auto focus		
	Image rotation ^{*2}			
	Camera Title (OSD)			
	Focus Adjustment			
ens	Optical zoom	3.1 x (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 : 33° (TELE) – 105° (WIDE), Vertical : 19° (TELE) – 56° (WIDE)		
	Angular field of view	[4:3 mode] Horizontal : 33° (TELE) – 105° (WIDE), Vertical : 25° (TELE) – 76° (WIDE)		
	Maurine and the Datie			
	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: 47.1 m / 154.7 ft, Tele: 207.4 m / 680.5 ft		
	Observe (62.5ppm / 19ppf)	Wide: 18.9 m / 61.9 ft, Tele: 83.0 m / 272.2 ft		
	Recognize (125ppm / 38ppf)	Wide: 9.4 m / 30.9 ft, Tele: 41.5 m / 136.1 ft		
	Identify (250ppm / 76ppf)	Wide: 4.7 m / 15.5 ft, Tele: 20.7 m / 68.1 ft		
	n Chip (SoC)	Ambarella CV22		
Adjusting	g Angle	Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°		
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 IF	10Base-T / 100Base-TX, RJ45 connector		
vetwork		[16:9 mode (30 fps mode)][16:9 mode (25 fps mode)]		
vetwork	Resolution	116:9 mode (30 fps mode)1116:9 mode (25 fps mode)1		
vetwork				
vetwork	Resolution H.265/ H.264/ JPEG (MJPEG)	3072x1728*4 / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180		
retwork		3072x1728 ^{*4} / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)]		
vetwork	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		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	3072x1728 ^{*4} / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x2304 ^{*4} / 2560x1920 / 1280x960 / 800x660 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type	3072x1728 ⁷⁴ / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x2304 ⁷⁴ / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type JPEG Image Quality	3072x1728 ⁷⁴ / 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 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type	3072x1728 ⁷⁴ / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x230 ⁴⁴ / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps COP(Group of pictures) control:		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type JPEG Image Quality	3072x1728 ⁷⁴ / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x2304 ⁷⁴ / 2560x1920 / 1280x960 / 800x660 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps COP(Group of pictures) control: Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s)/		
vetwork	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type JPEG Image Quality	3072x1728 ⁷⁴ / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x2304 ⁷⁴ / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP(Group of pictures) control : Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced(Fixed GOP 60s w/1s key-frame)/		
Network	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type JPEG Image Quality	3072x1728 ^{*4} / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x230 ⁴⁴ / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps 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-6s with frame rate control)		
Network	H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*5 Transmission Type JPEG Image Quality	3072x1728 ⁷⁴ / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] 3072x2304 ⁷⁴ / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP(Group of pictures) control : Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced(Fixed GOP 60s w/1s key-frame)/		

Network	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	H.265 / H.264 recording :			
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure			
	wennory card	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	ø3.5 mm stereo mini jack			
	For microphone input :	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	ø3.5 mm stereo mini jack (monaural output)			
		Output impedance : Approx. 600 Ω (unbalanced)			
		Output level : -20 dBV			
	External I/O Terminals	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	DC power supply : 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	-10 °C to +50 °C (14 °F to 122 °F)			
	Temperature	(Power On range: 0 °C to 50 °C{32°F to 122 °F})			
	Shock Resistance	IK10 (IEC 62262)			
	Ambient Operating Humidity	10 to 90 % (no condensation)			
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}			
		Dome radius 41.5 mm {1-5/8 inches}			
	Mass (approx.)	800 g {1.77 lbs.}			
	Finish	Main body : Aluminum die cast, Black			
		Dome cover : 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).

Appearance





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

AI Vehicle Detection

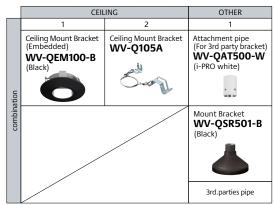
Extract vehicle characteristics and classify them into meaningful categories such as type and color.

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.

N	Mount Bracket / Other									
	WALL		POLE	CORNER	HANGING					
combination	1	2	1	1	1	2				
	Wall Mount Bracket WV-QWL501-B (Black)	Wall Mount Bracket WV-QWL500-B (Black)	Pole Mount Bracket WV-QPL500-B (Black)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-B '' (Black)				
	Mount Bracket WV-QSR501-B (Black)	Adapter Box WV-QIB500-W (I-PRO white)	Wall Mount Bracket WV-QWL500-B(Black) (+ WV-QJB500-W) + (1)	Wall Mount Bracket WV-QWL500-B(Black) (+ WV-QJB500-W) + []]	Mount Bracket WV-QSR501-B (Black)	3rd.parties pipe				



Dome Cover



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- Android is a trademark of Google LLC.
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- 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.

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

- Masses and dimensions are approximate.
 Specifications are subject to change without notice.



i-PRO Co., Ltd. https://i-pro.com/ (2A-354A)