

WV-S61501-Z1

S-series PTZ camera with AI Engine

5MP 10x Indoor PTZ Network Camera

S-series models come standard with AI automatic tracking. It can automatically detect, zoom, and track intruders in a wide area, thereby supporting surveillance operators in many scenes. It also achieves the industry's highest level of drive durability to withstand high-speed and high-frequency camera movement by the automatic monitoring function.

Al monitoring camera, standard with Al Auto-tracking

- Al analysis functionality is standard on the camera side to promote automated surveillance. Accurately detects people and vehicles and automatically zooms in on intruders. Support surveillance operators to ensure that no tracked object is missed.

Additional applications can be installed (up to two applications) to expand analysis functions such as Al privacy guard, person/vehicle attribute detection, etc.

Highly durable pan-tilt drive unit Reduced maintenance costs

- High durability gear drive achieves PAN and TILT drive durability (3.7 million movements). Low failure rate even with high frequency drive and reduced maintenance cost by minimizing the maintenance cycle.

Easy installation

- S-series compact PTZ cameras can be installed discreetly and easily on low ceilings.
- Easy kitting packaging" allows the camera to be set up without removing it from the box during kitting prior to installation.
- The addition of a diverse lineup of mounting brackets and optional PoE injectors enables flexible installation regardless of the location of new or existing installations.

High security standard

- Highest level of security. In addition to digital certificates issued by a third-party organization (GlobalSign®), FIPS 140-2 Level 3 certified EdgeLock® SE050F secure element (NXP® Semiconductors) is embedded.

Key i-PRO Spec.

- 5MP
- 10x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.007 to 0.11 lx)
- Durable Pan/Tilt gear mechanism
- ONVIF® Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level 3 certified

 *Built-in EdgeLock® SE050F (NXP® Semiconductors)
- NDAA Compliant





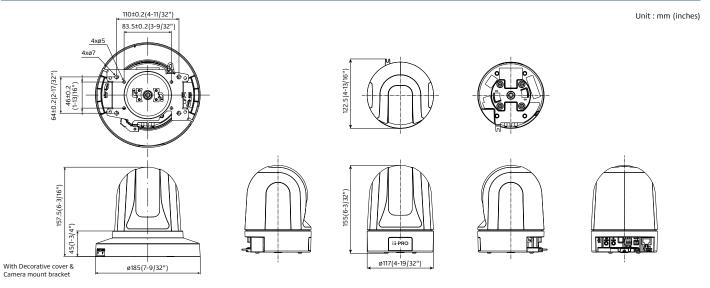


Specifications

Camera	ifications	Approx 1/2 8 type CMOS image conser		
Camera	Image Sensor Minimum Illumination	Approx. 1/2.8 type CMOS image sensor		
	Minimum illumination	Color: 0.11 lx (50IRE, F1.6, 1/30s)		
		Color: 0.007 lx (50IRE, F1.6, 16/30s)*1 BW: 0.06 lx (50IRE, F1.6, 1/30s)		
		BW: 0.004 lx (50IRE, F1.6, 1/50s)		
	White Balance	ATW1 / ATW2 / AWC		
	Shutter Speed	[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix		
	Shutter 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	The level can be set in the range of 0 to 31 (only when Super dynamic / Intelligent Auto : Off		
	Fog compensation	On / Off, The level can be set in the range of 0 to 8		
	r og compensation	(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 Auto1 Auto2 Auto3 (SCC)		
	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		
	Al Sound Classification	Gunshot, Yell, Vehicle horn, Glass break		
	Al Analytics	Yes		
	Privacy Zone	On / Off, Up to 32 zones available		
	VIQS	On / Off, Up to 8 zones available		
	Image Stabilizer	On / Off		
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)		
	Focus Adjustment	Auto focus		
Lens	Optical zoom	10x (Motorized zoom / Motorized Focus)		
	Extra zoom	Max. 15x (10 to 15x : When resolution is 1280 x 720)		
	Focal length	4.7 – 47 mm {3/16 inches - 1-27/32 inches}		
	Angular Field of View	[16 : 9 mode]		
		Horizontal : 6.2° (TELE) – 58° (WIDE), Vertical : 3.5° (TELE) – 34° (WIDE) [4:3 mode] Horizontal : 6.2° (TELE) - 58° (WIDE), Vertical : 4.6° (TELE) - 44° (WIDE)		
	Maximum Aperture Ratio	1:1.6 (WIDE) - 1:3.0 (TELE)		
	Focus range	1.5 m {59-1/16 inches} - ∞		
DORI	Detect (25ppm / 8ppf)	Wide: 92.4 m / 110.8 m (303 ft / 363.7 ft), Tele: 945.4 m / 1134.5 m (3101.6 ft / 3722 ft)		
	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf)	Wide: 36.9 m / 44.3 m (121.2 ft / 145.5 ft), Tele: 378.2 m / 453.8 m (1240.7 ft / 1488.8 ft) Wide: 18.5 m / 22.2 m (60.6 ft / 72.7 ft), Tele: 189.1 m / 226.9 m (620.3 ft / 744.4 ft)		
	Identify (250ppm / 76ppf)	Wide: 9.2 m / 11.1 m (30.3 ft / 36.4 ft), Tele: 94.5 m / 113.4 m (310.2 ft / 372.2 ft)		
System o	n Chip (SoC)	Ambarella CV22		
Adjusting		Horizontal: 0 to +350°, Vertical: -30 to +90°, Yaw: 0°		
Pan/tilt	Panning Range	0 - +350°		
	Panning Speed	Manual: Approx. 0.065°/s = 150°/s		
		Preset: Up to approx. 350°/s		
	Tilting Range	Operational -30° - +90°		
	Tilting Speed	Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 300°/s		
	Preset Positions	256 positions		
	Auto Mode	Auto Track / Auto pan/ Preset sequence/ Patrol		
	Self Return	10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min		
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*2	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*3, 2560x1440, 1920x1080, 1280x720, 640x360, 320x180		
		[4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]		
		3072x2304"3, 2560x1920, 1280x960, 800x600, VGA,		
		400x300, 320x240		
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort		
	H.264 *4 Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		

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 Coding: Auto VIQS: On/Off G.726 (ADPCM): 16 kbps / 32 kbps		
	Audio Compression			
		G.711 : 64 kbps		
		AAC-LC*5 : 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		
	Supported Frotocor	DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDI		
		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, NTCIP		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	Secure Secure	FIPS 140-2 level 3 (NXP® EdgeLock® SE050F),		
	Secure	Device Certificate GlobalSign® pre-installed, User authentication,		
		Host authentication, HTTPS, Data encryption, 802.1X Support		
	SDXC/SDHC/SD			
	' '	H.265 / H.264 recording:		
	Memory Card	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		
	M 10 T 1 10 1000	microSD memory card : 2 GB		
	Mobile Terminal Compatibility ONVIF® Profile	iPad, iPhone (iOS 8.0 or later), Android™ terminals		
	Alarm Source	G/M/S/T		
Alarm	Alarm Actions	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification,		
	Alarm Actions	HTTP alarm notification Indication on browser, TCP alarm notification output		
,	Audio input	ø3.5 mm stereo mini jack		
Input/				
Output	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))		
		1, , , , , , , , , , , , , , , , , , ,		
		Input impedance : Approx. 2 kΩ (unbalanced)		
	Facility in the control of the contr	Supply voltage: 2.5 V ±0.5 V		
	For line input :	Input level : Approx10 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)		
	External I/O Terminals			
	C-4-+.	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x		
General	Safety EMC	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1		
		FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035		
	Power Source and	DC12 V, PoE (IEEE802.3af)		
	Power Consumption	DC12 V: 970 mA / Approx. 11.6 W		
	A	PoE DC 48 V: 270 mA / Approx.12.95 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})		
	Ambient Operating Humidity	10 to 90 % (no condensation)		
	Anti-Condensation System			
	Dimensions	ø117 mm x 155 mm (H) {ø4-19/32 inches x 6-3/32 inches (H)}		
	Mass (approx.)	Approx. 1.2 kg {2.65 lbs}		
	Finish	Main body: Resin, i-PRO white		

Appearance



^{**1} Converted value**

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

**3 Used by super resolution techniques*

**4 Transmission for 4 streams can be individually set.

**5 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

Optional Accessories

■ Mount Bracket / Other

	WALL		POLE	CORNER	HANGING
	1	2	1	1	1
combination	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear)	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W *1 (i-PRO white)
	(i-PRO white)		0.00. 		
		Adapter Box WV-QJB500-W (i-PRO white)	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear) (i-PRO white)	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear) (i-PRO white)	
		*If needed.	(Smoke) (Clear)	(Smoke) (Clear)	

[&]quot;1: It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

	CEILING					
	1	2	3			
combination	Ceiling Mount Brackets WV-QED100G-W(Smoke) WV-QED100C-W(Clear) (i-PRO white)	Ceiling Mount Brackets WV-QCD100G-W(Smoke) WV-QCD100C-W(Clear) (i-PRO white)	Ceiling Mount Bracket WV-Q105A (Silver)			
	(Smoke) (Clear)	(Smoke) (Clear)				

Inner Cover



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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.
- $\bullet \ \mathsf{Masses} \ \mathsf{and} \ \mathsf{dimensions} \ \mathsf{are} \ \mathsf{approximate}. \quad \bullet \ \mathsf{Specifications} \ \mathsf{are} \ \mathsf{subject} \ \mathsf{to} \ \mathsf{change} \ \mathsf{without} \ \mathsf{notice}.$

