

WV-S61302-Z4

S series PTZ camera with AI

2MP (1080p) 40x 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 by automatic tracking function 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 level3-certified hardware is installed.

Key i-PRO Spec.

- 2MP (1080p) 1920x1080
- 40x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- ONVIF® Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Retail (Shopping mall) / Logistics
- Transportation (Airport / Train, Subway station)
- Bank
- Casino





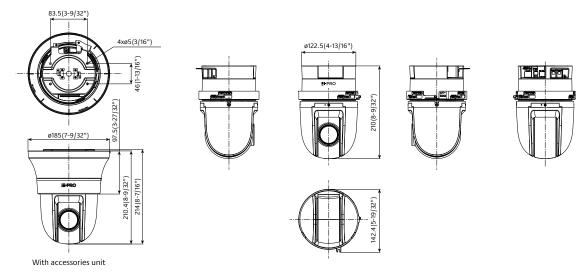
Specifications

Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor			
cumera	Minimum Illumination	Color: 0.015 lx (50IRE, F1.6, 1/30s)			
	William III III III III III III III III III I	Color: 0.001 kx (501RE, F1.6, 16/30s)*1			
		BW: 0.006 Ix (50IRE, F1.6, 1/30s)			
		BW: 0.0004 lx (50IRE, F1.6, 16/30s)			
	White Balance	ATW1 / ATW2 / AWC			
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix,			
		[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix			
		[50 fps Mode] 1/50 Fix to 1/10000 Fix,			
		[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix			
	Intelligent Auto	On / Off			
	Super Dynamic*2	On / Off, The level can be set in the range of 0 to 31.			
	Dynamic Range	Max.144 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 : C			
	Fog compensation	On / Off, The level can be set in the range of 0 to 8			
		(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	40x (Motorized zoom / Motorized Focus)			
	Extra zoom	Max. 60x (40 to 60x : When resolution is 1280 x 720)			
	Focal length	4.25 - 170 mm {5/32 inches - 6-11/16 inches}			
	Angular Field of View [16 : 9 mode]				
	"	Horizontal: 1.9° (TELE) – 66° (WIDE), Vertical: 1.1° (TELE) – 39° (WIDE)			
		[4:3 mode]			
		Horizontal : 1.4° (TELE) – 51° (WIDE) , Vertical : 1.1° (TELE) – 39° (WIDE)			
	Maximum Aperture Ratio	1:1.6 (WIDE) - 1:4.95 (TELE)			
	Focus range	3 m {118-1/8 inches} - ∞			
DORI	Detect (25ppm / 8ppf)	Wide: 60.3 m / 197.8 ft, Tele: 2095.2 m / 6873.9 ft			
	Observe (62.5ppm / 19ppf)	Wide: 24.1 m / 79.1 ft, Tele: 838.1 m / 2749.5 ft			
	Recognize (125ppm / 38ppf)	Wide: 12.1 m / 39.6 ft, Tele: 419.0 m / 1374.8 ft			
	Identify (250ppm / 76ppf)	Wide: 6.0 m / 19.8 ft, Tele: 209.5 m / 687.4 ft			
System o	on Chip (SoC)	Ambarella CV25M			
Adjusting		Horizontal : 360° Endless Panning, Vertical : -25 to +205°, Yaw : 0°			
	Panning Range				
anjuit		360° Endless Panning			
	Panning Speed	Manual: Approx. 0.065°/s – 150°/s			
		Preset: Up to approx. 500°/s			
	Tilting Range	Operational -25 - +205°			
	Tilting Speed	Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 350°/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 mir			
Browser	Camera Control	Brightness, AUX On / Off			
GUI	Audio	Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High			
GUI	/ ladio				
	SULLE LA LA	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			
	Resolution	[16 : 9 mode (60 fps mode)] ^{*2} , [16 : 9 mode (30 fps mode)],			
	H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode (50 fps mode)]*2 , [16 : 9 mode (25 fps mode)]			
		1920x1080, 1280x720, 640x360, 320x180			
		[4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)]			
		1280x960, VGA, QVGA			
		[4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)] 2048x1536 ^{*4} , 1280x960, VGA, QVGA			
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort			
	H.265/ Transmission Mode H.264*5 Transmission Type				

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 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			
		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,			
	No. of Circulture and Union	IEEE 802.1X, DiffServ, SRTP, MQTT, NTCIP			
	No. of Simultaneous Users Secure	Up to 14 users (Depends on network conditions)			
		FIPS 140-2 level3, Device Certificate GlobalSign® pre-installed			
	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: 6 4 GB, 128 GB, 256 GB, 512 GB microSDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB microSD memory card: 2 GB iPad, iPhone (iOS 8.0 or later), Android™ terminals			
	Mobile Terminal Compatibility				
	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/	Audio input	ø3.5 mm stereo mini jack			
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))			
		Input impedance : Approx. 2 kΩ (unbalanced)			
		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)			
	5	Output level : -20 dBV			
	External I/O Terminals	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)			
	5.6.	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 Issue 7 ClassA, EN55032 ClassA, EN55039			
	Power Source and	DC12 V, PoE (IEEE802.3af)			
	Power Consumption	DC12 V: 970 mA / Approx. 11.6 W			
	·	PoE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice)			
	Ambient Operating	PoE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F)			
	Ambient Operating Temperature	POE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F) (Power On range : 0 °C to +50 °C (+32 °F to +122 °F))			
	Ambient Operating Temperature Ambient Operating Humidity	PoE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F)			
	Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System	POE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F) (Power On range : 0 °C to +50 °C (+32 °F to +122 °F)) 10 to 90 % (no condensation)			
	Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Dimensions	POE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F) (Power On range : 0 °C to +50 °C {+32 °F to +122 °F}) 10 to 90 % (no condensation) - ø185 mm x 214 mm (H) {ø7-9/32 inches x 8-7/16 inches (H)}			
	Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System	PoE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice) -10 °C to +50 °C (+14 °F to +122 °F) (Power On range : 0 °C to +50 °C (+32 °F to +122 °F)) 10 to 90 % (no condensation)			

Appearance





^{**}To converted value

**2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

**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).

AI 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.

Al 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

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 / Other

mount Bracket Other											
	WALL	POLE	CORNER	HANGING	CEILING						
	1	1	1	1	1	2					
combination	Wall Mount Bracket WV-QWL100-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)	Ceiling Mount Bracket (Embedded) WV-QEM101-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A (Silver)					
		Wall Mount Bracket WV-QWL100-W (i-PRO white)	Wall Mount Bracket WV-QWL100-W (i-PRO white)								

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

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

