

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.

AI monitoring camera, standard with AI 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





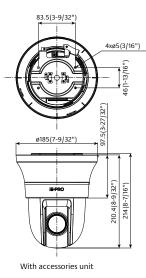
Specifications

spec	meations			
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color: 0.015 lx (50IRE, F1.6, 1/30s)		
		Color: 0.001 lx (50IRE, F1.6, 16/30s)*1		
		BW : 0.006 lx (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,		
	shatter speed	[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) / DHL (High light compensation) / Off The level can be set in the range of 0 to 31 (only when Super dynamic / Intelligent Auto : Off) On / Off, The level can be set in the range of 0 to 8 (only when Intelligent auto / auto contrast adjust : Off)		
	High light compensation			
	Fog compensation			
	Maximum gain (AGC)	he 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	n Chin (SoC)	Ambarella CV25M		
Adjusting	n Chip (SoC)			
		Horizontal : 360° Endless Panning, Vertical : -25 to +205°, Yaw : 0°		
Pan/tilt	Panning Range	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 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*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)] ¹ ² , [16 : 9 mode (50 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.264 ^{*5} Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		
	JPEG Image Quality	10 steps		

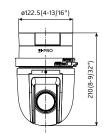
Network	Smart Coding	GOP (Group of pictures) control:	
		Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /	
		Advanced (Fixed GOP 60s w/1s key-frame) /	
		Frame rate control (Variable GOP 4s-16s with frame rate control)	
		*Advanced and Frame rate control are only available with H.265.	
		Smart 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 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, MOTT, 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, NTCIP	
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)	
	Secure	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 : 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/	Audio input	ø3.5 mm stereo mini jack	
Output	For microphone input :		
		(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 :		
	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 Issue 7 ClassA, EN55032 ClassA, EN55035	
	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	-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	ø185 mm x 214 mm (H) {ø7-9/32 inches x 8-7/16 inches (H)}	
	Mass (approx.)	Approx. 1.8 kg {3.97 lbs.}	
	Finish	Main body : Resin, i-PRO white	
1 Converte	ed value		
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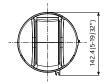
¹ Converted value
¹ Converted value
² When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
³ For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132.
⁴ Used by super resolution techniques
⁵ Transmission 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).

Appearance

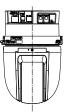














https://i-pro.com/global/en/surveillance/products/i-pro-ai-application

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 / Other										
	WALL	POLE	CORNER	HANGING	CEILING					
combination	1	1	1	1	1	2				
	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.



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AI Vehicle Detection

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.

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.