

WV-S65340-Z2N WV-S65340-Z2K

S series PTZ camera with AI

2MP (1080p) 21x Outdoor 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 AI 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
- 21x optical zoom
- Intelligent Auto (with Al Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- ClearSight Coating
- IP66, IP67, IK10 certified
- ONVIF $\ensuremath{^{\mbox{\tiny B}}}$ Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified
- -Z2K model : Heavy-duty salt damage-resistant coating

Industry examples

- Safe Cities
- Transportation (Airport / Train, Subway station)
- Stadium
- Critical infrastructure



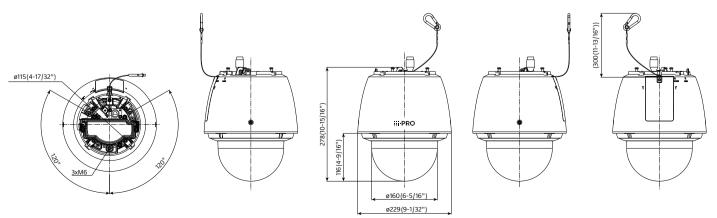


Specifications

Comoro	Image Sensor	Approx 1/2 8 type CMOS image concer			
Camera	Image Sensor Minimum Illumination	Approx. 1/2.8 type CMOS image sensor Color: 0.015 lx (50IRE, F1.6, 1/30s)			
	Winning	Color: 0.001 lx (50/RE, 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,			
		[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 Back light compensation /	The level can be set in the range of 0 to 255. 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) On / Off, The level can be set in the range of 0 to 8			
	Fog 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) The level can be set in the range of 0 to 255.			
	Digital Noise Reduction				
	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			
	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) Auto focus			
Lens	Focus Adjustment Optical zoom	x21 (Motorized zoom / Motorized Focus)			
Lens	Extra zoom	Max. x31 (21 to x31 : When resolution is 1280 x 720)			
	Focal length	4.0 - 84.6 mm {5/32 inches - 3-21/64 inches}			
	Angular Field of View	[16 : 9 mode] Horizontal : 3.7° (TELE) – 77° (WIDE), Vertical : 2.2° (TELE) – 44° (WIDE) [4 : 3 mode]			
	-				
		Horizontal : 2.8° (TELE) – 58° (WIDE), Vertical : 2.2° (TELE) – 44° (WIDE)			
	Maximum Aperture Ratio	1:1.6 (WIDE) -1:4.5 (TELE)			
	Focus range	1.5 m {50-1/16 inches} – ∞			
DORI	Detect (25ppm / 8ppf)	Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft			
	Observe (62.5ppm / 19ppf)	Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft			
	Recognize (125ppm / 38ppf)				
System o	Identify (250ppm / 76ppf) n Chip (SoC)	Wide: 5.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft Ambarella CV25M			
Adjusting		Horizontal : 0 to +350°, Vertical : -15 to +90°, Yaw : 0°			
Pan/tilt	Panning Range	0 - +350°			
	Panning Speed	Manual: Approx. 0.065°/s – 150°/s			
	5.1	Preset: Up to approx. 500°/s			
	Tilting Range	Operational -30 - +90°			
	Tilting Speed	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/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			
	circle in the second	Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 100Base-TX, RJ45 connector			
	GUI / Setup Menu Language Browser ^{*3}				
Network	Network IF				
NELWOIK	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 (55 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			

Vetwork	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 G.726 (ADPCM) : 16 kbps / 32 kbps		
	Audio Compression			
		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 duple		
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, Diffserv, SFTP, MQTT, LLE		
		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		
	wentory 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		
nput/	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 k Ω (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) (
General	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1		
General				
	EMC	FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035		
	Power Source and	AC24 V, PoE++ (IEEE802.3bt),PoE+ (IEEE802.3at)		
	Power Consumption	AC24 V, 3.4 A Approx. 53.3 W		
		PoE++ DC 54 V 940 mA, Approx. 50.84 W (Class6 device)		
		PoE+ DC 54 V 470 mA, Approx. 25.4 W(Class4 device)		
	Ambient Operating	-50 °C to +60 °C (-58 °F to +140 °F)		
	Temperature	(AC24V, PoE++) -30 °C to +60 °C {-22 °F to +140 °F) (PoE+ device)		
		(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})		
		Maximum temperature according to NEMA TS2(2.2.7) : 74 °C(165 °F)		
	Ambient Operating Humidity	10 to 100 % (no condensation)		
	Anti-Condensation System	Temish element + Heater + FAN + ROSAHL		
	Water and Dust Resistance	IP66, IP67, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complia		
	Shock Resistance	IK10 (IEC 62262)		
	Other standard support	NEMA TS2(2.2.7-2.2.9)		
	Dimensions	ø229 mm x 278 mm (H) {ø9-1/32 inches x 10-15/16 inches (H)}		
	Mass (approx.)	Approx. 4.2 kg {9.26 lbs.}		
	Finish	Main body : Aluminum die cast, i-PRO white		
		(-Z2K model : Heavy-duty salt damage-resistant coating)		
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)		
		Dome section : Polycarbonate resin, Clear (with ClearSight coating)		
Converte	ad value			
		Super Dynamic function is automatically set to off.		
	nation on the operation verificati	on of the supported web browsers, refer to our support website <control c013<="" no.:="" td=""></control>		
	super resolution techniques			
Used by	super resolution techniques ssion for 4 streams can be ind	lividually set.		

Appearance



Unit : mm (inches)

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

AI Vehicle Detection

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

For US

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.

	WALL	POLE	CORNER	HANGING	CEILING	OTHER
combination	1	1	1	1	1	1
	Wall Mount Bracket WV-QWL501-W WV-QWL501S-W (White)	Pole Mount Bracket PAPM4W (White)	Corner Mount Bracket PACA4W (White)	Ceiling Mount Bracket WV-QCL501-W WV-QCL501S-W (White)	Ceiling surface mount bracket WV-QCL500-W (White)	3rd Party Pipe (Male or Female type)
	Mount Bracket WV-QSR504-W WV-QSR504S-W (White)	Wall Mount Bracket WV-QWL501-W WV-QWL501S-W (White)	Wall Mount Bracket WV-QWL501-W WV-QWL501S-W (White)	Mount Bracket WV-QSR504-W WV-QSR504S-W (White)		Mount Bracket WV-QSR504F1-W (White, ANSI Female thread) WV-QSR504M1-W (White, ANSI Male thread)
		Mount Bracket WV-QSR504-W WV-QSR504S-W (White)	Mount Bracket WV-QSR504-W WV-QSR504S-W (White)			

*WV-QSR504S-W, WV-QWL501S-W and WV-QCL500S-W are heavy-duty salt damage-resistant coating accessories

Dome Cover



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

