⠿i·PRO

WV-S65300-ZY
WV-S65300-ZYG
(-G:Smoke Dome type)

S-series PTZ camera with AI Engine

2MP (1080p) 3.1x 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

- AI 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

- PAN,TILT drive endurance (1 million movements) to reduce maintenance frequency.

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.
- S-series outdoor DOME 3.1x models have a structure that allows wiring and installation without opening the DOME, supporting easy installation in the field.
- 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 embeded.

Key i-PRO Spec.

- 2MP (1080p) 1920x1080
- 3.1x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.01 lx) (G: 0.002 to 0.03 lx)

- IP66, IK10 certified
- 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

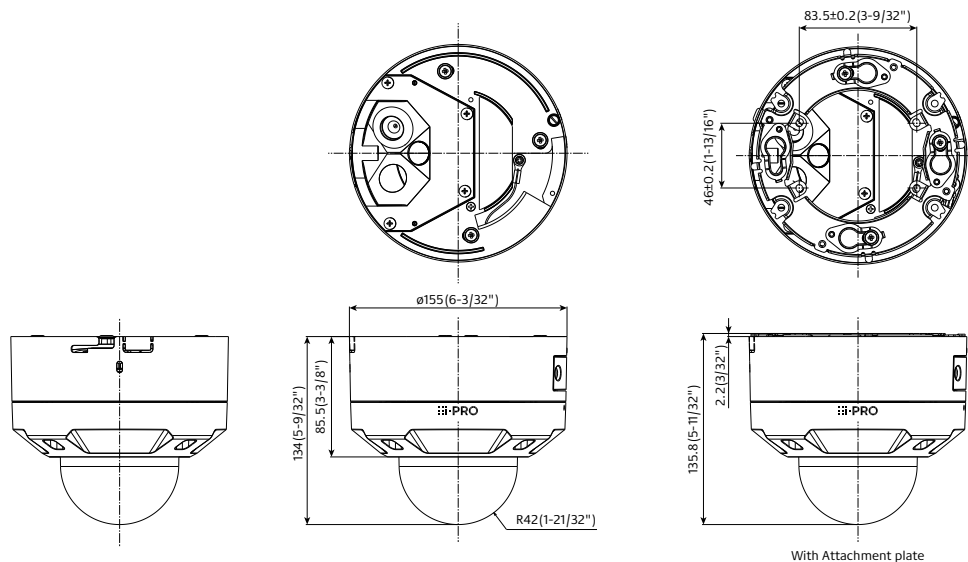WV-S65300-ZY

WV-S65300-ZYG (Smoke Dome)

Ambarella®
AI envisioned™

S series

Specifications

Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.01 lx (G: 0.03 lx) (50IRE, F1.3, 1/30s)
		Color : 0.001 lx (G: 0.002 lx) (50IRE, F1.3, 16/30s)*1
		BW : 0.004 lx (G: 0.012 lx) (50IRE, F1.3, 1/30s)
		BW : 0.0003 lx (G: 0.0008 lx) (50IRE, F1.3, 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 / High light compensation	BLC (Back light compensation) / HLC (High light compensation) / Off 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 (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
	AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break
	AI Analytics	Yes
	Privacy Zone	On / Off, Up to 32 zones available
	VIQS	On / Off, Up to 8 zones available
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
	Focus Adjustment	Auto focus
Lens	Optical zoom	3.1x (Motorized zoom / Motorized Focus)
	Extra zoom	Max. 4.6x (3.1 to 4.6x : When resolution is 1280 x 720)
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
	Angular Field of View	[16 : 9 mode]
		Horizontal : 36° (TELE) – 113° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)
		[4 : 3 mode]
		Horizontal : 26° (TELE) – 82° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)
	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: 25.4 m / 83.4 ft, Tele: 118.2 m / 387.7 ft
	Observe (62.5ppm / 19ppf)	Wide: 10.2 m / 33.4 ft, Tele: 47.3 m / 155.1 ft
	Recognize (125ppm / 38ppf)	Wide: 5.1 m / 16.7 ft, Tele: 23.6 m / 77.5 ft
	Identify (250ppm / 76ppf)	Wide: 2.5 m / 8.3 ft, Tele: 11.8 m / 38.8 ft
System on Chip (SoC)		Ambarella CV52M
Adjusting Angle		Horizontal : 0 to +350°, Vertical : 0 to +90°, Yaw : 0°
Pan/tilt	Panning Range	0 – +350°
	Panning Speed	Manual: Approx. 0.065°/s – 150°/s
		Preset: Up to approx. 150°/s
	Tilting Range	Operational 0 – +90°
	Tilting Speed	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 150°/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 GUI	Camera Control	Brightness, AUX On / Off
	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 H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode (60 fps mode)]*2 , [16 : 9 mode (30 fps mode)], [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/ H.264*5 Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	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 Coding: Auto VIQS:** 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, 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, NTCIP
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	Secure	FIPS 140-2 level 3 (NXP® EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed, User authentication, Host authentication, HTTPS, Data encryption, 802.1X Support
	SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : 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/ Output	Audio input	ø3.5 mm stereo mini jack
	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 : Approx. –10 dBV
	Audio Output*7	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 Power Consumption	DC12 V, PoE (IEEE802.3af) DC12 V: 890 mA / Approx. 10.7 W PoE DC 48 V: 250 mA / Approx.12.0 W (Class 0 device)
	Ambient Operating Temperature	-30 °C to +55 °C (-22 °F to +131 °F) (Power On range : -20 °C to +55 °C {-4 °F to +131 °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
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Other standard support	NEMA TS2(2.2.7-2.2.9)
	Dimensions	ø155 mm x 134 mm (H) {ø6-3/32 inches x 5-9/32 inches (H)}
	Mass (approx.)	Approx. 1.6 kg {3.53 lbs.}
	Finish	Main body : Aluminum die cast and polycarbonate resin, i-PRO white Dome section : Polycarbonate resin, Clear (G: Smoke)

*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).
*7 The audio output can be switched to the monitor output. Refer to the Operating Instructions on the provided
    CD-ROM for descriptions of how to switch the output.

Appearance

Unit : mm (inches)

83.5±0.2(3-9/32")
46±0.2(1-13/16")

ø155(6-3/32")
134(5-9/32")
85.5(3-3/8")

135.8(5-11/32")
2.2(3/32")

R42(1-21/32")

With Attachment plate

Optional Accessories

■ Mount Bracket / Other

	WALL		POLE	CORNER	HANGING	
	1	2	1	1	1	2
combination	Wall Mount Bracket **PWM40W** (White)	Wall Mount Bracket **WV-QWL500-W** (White)	Pole Mount Bracket **PAPM4W** (White)	Corner Mount Bracket **PACA4W** (White)	Ceiling Mount Bracket **WV-QCL501-W** (White)	Ceiling Mount Bracket **WV-QCL101-W** [1] (White) *For indoor installation only.
	Mount Bracket **WV-QSR501F1-W** (White, ANSI Female thread)	Adapter Box **WV-QJB500-W** (White) *If needed.	Wall Mount Bracket **PWM40W** (White)	Wall Mount Bracket **PWM40W** (White)	Mount Bracket **WV-QSR501-W** (White)	
			Mount Bracket **WV-QSR501F1-W** (White, ANSI Female thread)	Mount Bracket **WV-QSR501F1-W** (White, ANSI Female thread)		

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

	CEILING			OTHER
	1	2	3	1
combination	Base Bracket **WV-QJB501-W** (White)	Ceiling Mount Bracket (Embedded) **WV-QEM502-W** (White) *For indoor installation only.	Base bracket **WV-QJB504-W** (White)	3rd Party Pipe (Male or Female type)
				Mount Bracket **WV-QSR501F1-W** (White, ANSI Female thread)) **WV-QSR501M1-W** (White, ANSI Male thread)

■ Dome Cover

Dome Cover (Smoke type) **WV-CW7S**	Dome Cover (Smoke type with ClearSight coating) **WV-CW7SN**	Dome Cover (Clear type with ClearSight coating) **WV-CW7CN**

■ Cable

I/O Cable **WV-QCA501A** **WV-QCA501APK**

*WV-QCA501APK is package of 10 cables.

*The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.

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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.

∷i-PRO
The Power of Truth