

# WV-S65301-Z1 WV-S65301-Z1G (-G:Smoke Dome type)

## S-series PTZ camera with AI Engine

# 2MP (1080p) 10x 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 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 10x models of the S-Series outdoor DOME are shipped with a waterproof LAN extension cable installed. The DOME can be installed without opening the DOME at sites where conventional pigtails are used.
- 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
- 10x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx) (G: 0.003 to 0.045 lx)
- Durable Pan/Tilt gear mechanism

- 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-S65301-Z1





WV-S65301-Z1G (Smoke Dome)

#### **Specifications**

	ifications			
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color : 0.015 lx (G: 0.045 lx) (50IRE, F1.6, 1/30s)		
		Color : 0.001 lx (G: 0.003 lx) (50IRE, F1.6, 16/30s)*1		
		BW : 0.006 lx (G: 0.017 lx) (50IRE, F1.6, 1/30s)		
		BW : 0.0004 lx (G: 0.0011 lx) (50IRE, F1.6, 16/30s)		
	White Balance	ATW1 / ATW2 / AWC		
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix,		
	shutter 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 <sup>*2</sup>	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 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		
	High light compensation			
	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)		
	Digital Noise Reduction	The level can be set in the range of 0 to 255.		
		On / Off, 4 areas available		
	Video Motion Detection (VMD)			
	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		
	Image Stabilizer	On / Off (available only in the 30 fps mode)		
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)		
	Focus Adjustment	Auto focus		
ens	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]		
	····g	Horizontal : 6.7° (TELE) – 62° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE)		
		[ 4 : 3 mode]		
		Horizontal : 5.1° (TELE) - 48° (WIDE), Vertical : 3.8° (TELE) - 37° (WIDE)		
	Maximum Aperture Ratio	1:1.6 (WIDE) - 1:3.0 (TELE)		
	Focus range	1.5 m {59-1/16 inches} - ∞		
OORI	Detect (25ppm / 8ppf)	Wide: 64.2 m / 210.5 ft, Tele: 656.0 m / 2152.3 ft		
	Observe (62.5ppm / 19ppf)	Wide: 25.7 m / 84.2 ft, Tele: 262.4 m / 860.9 ft		
	Recognize (125ppm / 38ppf)	Wide: 12.8 m / 42.1 ft, Tele: 131.2 m / 430.5 ft		
	Recognize (izoppin/ooppi)			
	Identify (250ppm / 76ppf)			
uctom o	Identify (250ppm / 76ppf)			
	n Chip (SoC)	Ambarella CV25M		
djusting	n Chip (SoC) g Angle	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0°		
djusting	n Chip (SoC) g Angle Panning Range	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning		
djusting	n Chip (SoC) g Angle	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 500°/s		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s – 150° /s Preset: Up to approx. 500° /s Operational -15 – +195°		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 500° /s Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (POE+), Up to approx. 350° /s (DC12 V POE)		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s – 150° /s Preset: Up to approx. 500° /s Operational -15 – +195° Manual: Approx. 0.06° /s –150° /s Preset: Up to approx. 500° /s (PoE+), Up to approx. 350° /s (DC12 V PoE) 256 positions		
djusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Range Tilting Speed Preset Positions Auto Mode	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol		
djustin <u>o</u> an/tilt	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	Ambarella     CV25M       Horizontal:     360° Endless Panning, Vertical:     -15° to +195°, Yaw:     0°       360° Endless Panning     Manual:     Approx.     0.065°/s     150°/s       Preset:     Up to approx.     500° /s     Operational     -15 - +195°     Manual:     Approx.     0.065°/s - 150°/s       Preset:     Up to approx.     0.065°/s (PoE+), Up to approx.     350°/s (DC12 V POE)     256 positions       Auto track / Auto pan/ Preset sequence/ Patrol     10 s/2 0s /3 0s /1 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min		
djusting an/tilt rowser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 500° /s Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (POE+), Up to approx. 350° /s (DC12 V POE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 60 min Brightness, AUX On / Off		
djusting an/tilt rowser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Brightness, AUX On / Off Wic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
djusting an/tilt rowser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -5150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V PoE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
djusting an/tilt rowser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (PoE+), Up to approx. 350° /s (DC12 V PoE) 256 positions Auto track / Auto pan / Preset sequence / Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
djusting an/tilt rowser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup>	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan / Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX On / Off Kic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome		
adjusting an/tilt rowser UI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (PoE+), Up to approx. 350° /s (DC12 V PoE) 256 positions Auto track / Auto pan / Preset sequence / Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
adjusting an/tilt rowser UI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup>	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan / Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX On / Off Kic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome		
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser <sup>3</sup> Network IF	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan / Preset sequence/ Patrol 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX ON / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, Germa, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 10DBase-TX, RI45 connector [16 : 9 mode (60 fps mode)] <sup>2</sup> , [16 : 9 mode (25 fps mode)], [16 : 9 mode (60 fps mode)] <sup>2</sup> , [16 : 9 mode (25 fps mode)]		
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup> Network IF Resolution	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V PoE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T, 10DBase-TX, R445 connector [16 : 9 mode (50 fps mode)] <sup>12</sup> , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] <sup>12</sup> , [16 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)]. [4 : 3 mode (25 fps mode)]		
System o Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup> Network IF Resolution	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (P0E+), Up to approx. 350°/s (DC12 V P0E) 256 positions Auto track / Auto pan / Preset sequence / Patrol 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108aser 7 / 100Baser 7X, RI45 connector [16 : 9 mode (60 fps mode)] <sup>7</sup> 2, [16 : 9 mode (30 fps mode)], [16 : 9 mode (60 fps mode)] <sup>7</sup> 2, [16 : 9 mode (25 fps mode)] 1920x1080, 1280x20, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)]		
Adjusting Yan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup> Network IF Resolution	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V PoE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T, 10DBase-TX, R445 connector [16 : 9 mode (50 fps mode)] <sup>12</sup> , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] <sup>12</sup> , [16 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)]. [4 : 3 mode (25 fps mode)]		
Adjusting Yan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup> Network IF Resolution	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V PoE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High 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, RI45 connector [16 : 9 mode (60 fps mode)] <sup>2</sup> , [16 : 9 mode (30 fps mode)], [16 : 9 mode (30 fps mode)] <sup>2</sup> , [16 : 9 mode (25 fps mode)] 1280x960, VGA, QVGA [4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)] 2048x153'4 , 1280x960, VGA, QVGA		
Adjusting Yan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' <sup>3</sup> Network IF Resolution	Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V PoE) 256 positions Auto track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High 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 / 1008ase-TX, RI45 connector [16 : 9 mode (60 fps mode)] <sup>7</sup> 2, [16 : 9 mode (30 fps mode)], [16 : 9 mode (60 fps mode)] <sup>7</sup> 2, [16 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (13 fps mode)], [4 : 3 mode (12.5 fps mode)]		
Adjusting Yan/tilt Browser GUI	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser <sup>3</sup> Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Ambarella CV25M       Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0°       360° Endless Panning       Manual: Approx. 0.065°/s - 150°/s       Preset: Up to approx. 500°/s       Operational -15 - +195°       Manual: Approx. 0.065°/s - 150°/s       Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V POE)       256 positions       Auto track / Auto pan/ Preset sequence/ Patrol       10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min       Brightness, AUX On / Off       Mic (Line) Input : On / Off       Mic Output : On / Off       Microsoft Edge, Firefox, Goagle Crome       108ase -17, 100Base-17, N445 connector       [16 : 9 mode (60 fps mode)] <sup>2</sup> , [16 : 9 mode (30 fps mode)],       [16 : 9 mode (60 fps mode)] <sup>2</sup> , [16 : 9 mode (25 fps mode)]       1280xv80, VGAX60, 320x80       [4 : 3 mode (30 fps mode)], [4 : 3 mode (12.5 fps mode)]       1280xv80, VGA, QVCA       [4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)]       1204xv815, 4*, 1280xv90, VGA, QVCA		

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 <sup>*6</sup> : 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,
	No. of Simultaneous Users	IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, NTCIP
	Secure	Up to 14 users (Depends on network conditions) FIPS 140-2 level 3 (NXP <sup>®</sup> EdgeLock <sup>®</sup> SE050F),
	secure	Device Certificate GlobalSign <sup>®</sup> 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
	memory cara	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 <sup>®</sup> 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 kΩ (unbalanced)
		Supply voltage : 2.5 V ±0.5 V
	For line input :	Input level : Approx10 dBV
	Audio Output *7	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	Output level : -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)
	External i/O reminals	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
Jeneral	EMC	FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035
	Power Source and	DC12 V, POE (IEEE802.3af), POE+ (IEEE802.3at)
	Power Consumption	DC12 V: 1.3 A / Approx.15.6 W
		PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0 device)
		PoE+ DC 54 V: 340 mA / Approx18.4 W(Class 4 device)
	Ambient Operating	-30 °C to +55 °C (-22 °F to +131 °F)
	Temperature	(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	ø165 mm x 139 mm (H) {ø6-1/2 inches x 5-15/32 inches (H)}
	Mass (approx.)	Approx. 1.6 kg {3.53 lbs.}
	Finish	Main body : Aluminum die cast, Black polycarbonate resin, i-PRO white
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
_		Dome section : Polycarbonate resin, Clear (G: Smoke)
Converte	ed value	

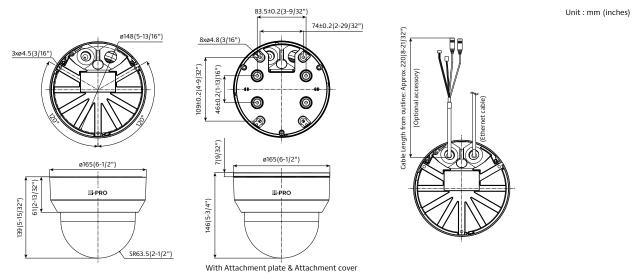
\*1 Con

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

\*4 Used by super resolution techniques

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



#### **Optional Accessories**

N	Mount Bracket / Other							
	WALL		POLE CORNER		HANGING			
	1	2	1	1	1	2		
combination	Wall Mount Bracket WV-QWL501-W (i-PRO white)	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-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W '1 (i-PRO white)		
	0.		D,			*For indoor installation only.		
	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Mount Bracket WV-QSR501-W (i-PRO white)			
		"If needed.						
			Mount Bracket WV-QSR501-W (i-PRO white)	Mount Bracket WV-QSR501-W (i-PRO white)				
			8	8				

\*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 (i-PRO white)	Ceiling Mount Bracket (Embedded) WV-QEM503-W (i-PRO white) 'For indoor installation only.	Base bracket WV-QJB504-W (i-PRO white)	3rd Party Pipe (Male or Female type)			
				Mount Bracket <b>WV-QSR501F-W</b> (i-PRO white, ISO Female thread)	3	Mount Bracket <b>WV-QSR501F1-W</b> (White, ANSI Female thread)	3
				WV-QSR501M-W (i-PRO white, ISO Male thread)	iii	WV-QSR501M1-W (White, ANSI Male thread)	111

#### Dome Cover



#### Cable I/O Cable



\*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.

#### Trademarks and registered trademarks

GlobalSign and the GlobalSign Logo are registered trademarks of GMO GrobalSign K.K.
Pad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

Android is a trademark of Google LLC.
ONVIF is a trademark of ONVIF, Inc.

- 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.



i-PRO Co., Ltd. https://i-pro.com/ (2A-379AA)