

WV-S65501-Z1 WV-S65501-Z1G (-G:Smoke Dome type)

S-series PTZ camera with AI Engine

5MP 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 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 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.

- 5MP
- 10x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.007 to 0.11 lx) (G: 0.020 to 0.32 lx)
- Durable Pan/Tilt gear mechanism



- 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-S65501-Z1G (Smoke Dome)

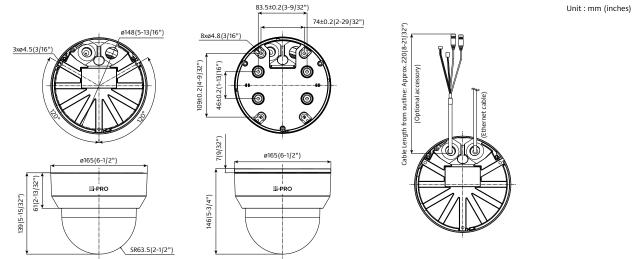
Specifications

	ifications	
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color: 0.11 lx (G: 0.32 lx) (50IRE, F1.6, 1/30s)
		Color : 0.007 lx (G: 0.020 lx) (50IRE, F1.6, 16/30s) ^{*1}
		BW : 0.06 lx (G: 0.18 lx) (50IRE, F1.6, 1/30s)
		BW : 0.004 lx (G: 0.011 lx) (50IRE, F1.6, 16/30s)
	White Balance	ATW1 / ATW2 / AWC
	Shutter Speed	[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix
	snutter speed	
		[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix
	Intelligent Auto	On / Off
	Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
	Dynamic Range	Max.132 dB (Super Dynamic : On, Level 31)
		*When the level is set more than 30, frame rate is limited to 15fps
	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 : Off)
	Fog compensation	On / Off, The level can be set in the range of 0 to 8
	rog 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.
	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)
	Focus Adjustment	Auto focus
Lens	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]
	·	Horizontal : 6.2° (TELE) – 58° (WIDE), Vertical : 3.5° (TELE) – 34° (WIDE)
		[4:3 mode]
		Horizontal : 6.2° (TELE) - 58° (WIDE), Vertical : 4.6° (TELE) - 44° (WIDE)
	Maximum Aperture Ratio	1:1.6 (WIDE) - 1:3.0 (TELE)
	Focus range	1.5 m {59-1/16 inches} – ∞
DORI	Detect (25ppm / 8ppf)	Wide: 92.4 m / 110.8 m (303 ft / 363.7 ft), Tele: 945.4 m / 1134.5 m (3101.6 ft / 3722 ft)
	Observe (62.5ppm / 19ppf)	Wide: 36.9 m / 44.3 m (121.2 ft / 145.5 ft), Tele: 378.2 m / 453.8 m (1240.7 ft / 1488.8 ft)
	Recognize (125ppm / 38ppf)	Wide: 18.5 m / 22.2 m (60.6 ft / 72.7 ft), Tele: 189.1 m / 226.9 m (620.3 ft / 744.4 ft)
	Identify (250ppm / 76ppf)	Wide: 9.2 m / 11.1 m (30.3 ft / 36.4 ft), Tele: 94.5 m / 113.4 m (310.2 ft / 372.2 ft)
System o		
	n Chip (SoC)	Ambarella CV22
Adjusting	n Chip (SoC) g Angle	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0°
Adjusting	n Chip (SoC) g Angle Panning Range	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning
Adjusting	n Chip (SoC) g Angle	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s
Adjusting	n Chip (SoC) g Angle Panning Range	Ambarella CV22 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 (PoE+)
Adjusting	n Chip (SoC) 3 Angle Panning Range Panning Speed	Ambarella CV22 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 (PoE+) Preset: Up to approx. 350°/s (DC12V, PoE)
Adjusting	n Chip (SoC) g Angle Panning Range Panning Speed Tillting Range	Ambarella CV22 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 (PoE+) Preset: Up to approx. 500 °/s (DC12V, PoE) Operational -15 - +195°
Adjusting	n Chip (SoC) 3 Angle Panning Range Panning Speed	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s – 150° /s Preset: Up to approx. 350° /s (PoE+) Preset: Up to approx. 350° /s (PoE+) Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s
Adjusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 350° /s (PoE+) Preset: Up to approx. 350° /s (DC12V, PoE) Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s
Adjusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 350° /s (PoE+) Preset: Up to approx. 350° /s (DC12V, PoE) Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s
Adjusting	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s – 150° /s Preset: Up to approx. 350° /s (PoE+) Preset: Up to approx. 350° /s (PoE+) Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s
Adjusting	n Chip (SoC) Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions	Ambarella CV22 Horizontal 3.60° Endless Panning, Vertical: -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 350 °/s (DC12V, P0E) Operational 15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions 256
Adjusting	n Chip (SoC) Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode	Ambarella CV22 Horizontal : 360° Endless Panning, Vertical : -15° to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 350° /s (PoE+) Preset: Up to approx. 350° /s (PoE+) Operational -15 - +195° Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 0.065° /s -150° /s Manual: Approx. 0.065° /s -150° /s Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (DC12V, PoE) 256 positions Auto Track / Auto pan / Preset sequence/ Patrol
Adjustin <u>c</u> Pan/tilt	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	Ambarella CV22 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 (P0E+) Preset: Up to approx. 50° /s (DC12V, P0E) Operational : -15 - +195° Manual: Approx. 0.065° /s - 150° /s Preset: Up to approx. 50° /s (P0E+) Preset: Up to approx. 300° /s (DC12V, P0E) 256 positions Auto Track / Auto pan / Preset sequence / Patrol 10 s/2 0.3 (0.51 min/ 2 min/ 3 min / 5 min / 10 min/ 20 min/ 60 min
Adjusting Pan/tilt Browser	n Chip (SoC) Angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control	Ambarella CV22 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 (PoE+) Preset: Up to approx. 350 °/s (DC12V, POE) Operational 15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500 °/s (PoE+) Preset: Up to approx. 500 °/s (DC12V, POE) 256 positions 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
Adjusting Pan/tilt Browser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	Ambarella CV22 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 (POE+) Preset: Up to approx. 500° /s (POE+) Operational : 15 - +195° Manual: Approx. 0.065° /s -150°/s Preset: Up to approx. 500° /s (POE+) Preset: Up to approx. 500° /s (POE+) Preset: Up to approx. 300° /s (DC12V, POE) 256 positions Auto Track / Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/3 0s /s 1min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Brightenss, AUX On / Off Wic (Line) Ipput : 0n / Off Volume adjustment : Low / Middle / High
Adjusting Pan/tilt Browser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio	Ambarella CV22 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 (P0E+) Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 500 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions Auto Track / Auto pan/ Preset sequence/ Patrol 10 s/2 0 s/3 0 s/1 min/2 min/3 min/3 min/10 min/20 min/60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment: Low / Middle / High
Adjusting Pan/tilt Browser	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 CV22 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 (P0E+) Preset: Up to approx. 350 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 350 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions Auto Track / Auto pan / Preset sequence/ Patrol 10 s/2 0/3 30 s/1 min/2 min/3 min/5 min/10 min/20 min/60 min Brightness, AUX On / Off Wice ion Jupt : On / Off Maidio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Adjusting Pan/tilt Browser	n Chip (SoC) g Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio	Ambarella CV22 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 (P0E+) Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 500 °/s (P0E+) Preset: Up to approx. 500 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions Auto Track / Auto pan/ Preset sequence/ Patrol 10 s/2 0 s/3 0 s/1 min/2 min/3 min/3 min/10 min/20 min/60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment: Low / Middle / High
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	Ambarella CV22 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 (P0E+) Preset: Up to approx. 350 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 350 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions Auto Track / Auto pan / Preset sequence/ Patrol 10 s/2 0/3 30 s/1 min/2 min/3 min/5 min/10 min/20 min/60 min Brightness, AUX On / Off Wice ion Jupt : On / Off Maidio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Adjusting Pan/tilt Browser GUI	n Chip (SoC) Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' ²	Ambarella CV22 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 (PoE+) Preset: Up to approx. 300° /s (DC12V, 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 Mci (Line) Input: On / Off Madio Output : On / Off Madio Nutput : On / Off Finglish, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 100Base-TT, 100Base-TX, RI45 connector
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ² Network IF Resolution	Ambarella CV22 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 (PoE+) Preset: Up to approx. 300° /s (DC12V, PoE) 256 positions Auto Track / Auto pan / Preset sequence/ Patrol 10s / 20 / 30s / 1 min / 2 min / 3 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 (20 fps mode)], [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 Audi o GUI / Setu Menu Language Browser ² Network IF	Ambarella CV22 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 (P0E+) Preset: Up to approx. 500 °/s (P0E+) Operational -15 - +195° Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 500 °/s (DC12V, P0E) Operational -15 - +195° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 300 °/s (DC12V, 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 Mic (Line) Input : On / Off Mic (Line) Input : On / Off Mic (Jober, Track, J, R45 connector 10Base-T / 100Base-T / X, R45 connector 10F s mode (30 fs mode)], Ife : 9 mode (25 fps mode)] 3072x1728'3, 2560x1440, 1920x1080, 1280x720, 640x360, 320x180
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ² Network IF Resolution	Ambarella CV22 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 (PoE+) Preset: Up to approx. 300° /s (DC12V, 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 English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 100Base-T7, 2660x1440, 1920x1080, 1280x720, 640x360, 320x180 [16: 9 mode (30 fps mode)], [16: 9 mode (25 fps mode)] 3072x1728 ^{T3} , 2560x1440, 1920x1080, 1280x720, 640x360, 320x180 [4: 3 mode (30 fps mode)], [4: 3 mode [25 fps mode]]
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ² Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Ambarella CV22 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 (PoE+) Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (DC12V, PoE) 256 positions Auto Track / Auto pan / Preset sequence / Patrol 10s / 20 / 30s / 1 min / 2 min / 30 min / 00 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-TI, 10DBase-TS, NH45 connector 161 : 9 mode (30 fps mode)], [16 : 9 mode (25 fps mode)] 3072x234', 2560x1440, 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [20 : 1300x600, 00x00, VGA, 400x300, 320x240
Adjusting Pan/tilt Browser	n Chip (SoC) Angle Panning Range Panning Speed Tilting Range Tilting Speed Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' ² Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	Ambarella CV22 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 (P0E+) Preset: Up to approx. 300 °/s (DC12V, P0E) 256 positions Auto Track / Auto pan / Preset sequence/ Patrol 10 s/ 20 s/j 30 s/j 1min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AUX On / Off Mic Line) Input : 0n / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RI4S connector 16 : 9 mode (30 fps mode)], 16 : 9 mode (25 fps mode)] 3072x1728 ^{r3} , 2560x1440, 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)] 3072x204 ^{r3} , 2560x1920, 1280x960, 800x600, VGA, 400x300, 320x240 Constant bit rate / VBR / Frame rate / Best effort
Adjusting Pan/tilt Browser GUI	n Chip (SoC) g Angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ² Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Ambarella CV22 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 (PoE+) Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (PoE+) Preset: Up to approx. 300° /s (DC12V, PoE) 256 positions Auto Track / Auto pan / Preset sequence / Patrol 10s / 20 / 30s / 1 min / 2 min / 30 min / 00 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-TI, 10DBase-TS, NH45 connector 161 : 9 mode (30 fps mode)], [16 : 9 mode (25 fps mode)] 3072x234', 2560x1440, 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [20 : 1300x600, 00x00, VGA, 400x300, 320x240

Network	Smart Coding	GOP (Group of pictures) control:
NCLWOIK	Sinare county	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
	Audio compression	
		G.711 : 64 kbps AAC-LC ^{*5} : 64 kbps / 96 kbps / 128 kbps
	Audia tana aminina mada	
	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	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
General	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	When using at TILT rotation speed 300dps
		DC12 V : 1.3 A / approx. 15.4 W
		PoE DC 48 V : 270 mA / approx. 12.95 W (Class 0 device)
		When using at TILT rotation speed 500dps
		PoE+ DC 54 V : 350 mA / approx. 18.9 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})
	remperature	Maximum temperature according to NEMA TS2(2.2.7) : 74 °C(165 °F)
	Archiest Oceantics Useridity	
	Ambient Operating Humidity	10 to 100 % (no condensation) Temish element
	Anti-Condensation System	
	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)
	ed value	

*1 Converted value *2 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>. *3 Used by super resolution techniques *4 Transmission for 4 streams can be individually set. *5 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

Appearance



With Attachment plate & Attachment cover

Optional Accessories

N	/Iount Bracket / Oth	er						
	W	ALL	POLE	CORNER	HAN	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)		
				• •		*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 WV-QSR501F-W (i-PRO white, ISO Female thread)	3	Mount Bracket WV-QSR501F1-W (White, ANSI Female thread)	3
				WV-QSR501M-W (i-PRO white, ISO Male thread)	-	WV-QSR501M1-W (White, ANSI Male thread)	fut.

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.

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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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