

WV-U65302-Z2 WV-U65302-Z2G

U series PTZ camera

2MP (1080p) 21x Outdoor PTZ Network Camera

U-Series launch gives customers PTZ's that meet top security certifications (FIPS 140-2 level 3) while also providing a unique blend of imaging performance, reliability and affordability.

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

- U-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 x21 and x10 models of the U 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 level3-certified hardware is installed.

Key i-PRO Spec.

- 2MP (1080p) 1920x1080
- 21x optical zoom
- Intelligent Auto
- 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 / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

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







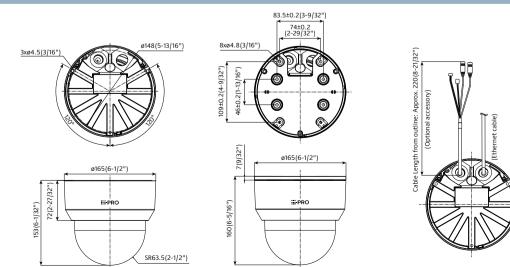
Specifications

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,		
		[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.		
		Max.144 dB (Super Dynamic : On, Level 31)		
	Dynamic Range			
	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		
	5 .	(only when Intelligent auto / auto contrast adjust : Off)		
	Maximum gain (ACC)	The level can be set in the range of 0 to 11.		
	Maximum gain (AGC)			
	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			
	Al Analytics	-		
	Privacy Zone	On / Off, Up to 8 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		
1				
Lens	Optical zoom	21x (Motorized zoom / Motorized Focus)		
	Extra zoom	Max. 31x (21 to 31x : 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]		
		[4:3 mode]		
		'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE)		
	Maximum Aperture Ratio	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1 : 1.6 (WIDE) - 1 : 4.5 (TELE)		
	Maximum Aperture Ratio Focus range	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1 : 1.6 (WIDE) - 1 : 4.5 (TELE) 1.5 m {50-1/16 inches} - ∞		
DORI		'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1 : 1.6 (WIDE) - 1 : 4.5 (TELE)		
DORI	Focus range Detect (25ppm / 8ppf)	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft		
DORI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf)	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft		
DORI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf)	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft 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		
	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	$\label{eq:second} \begin{split} & ^{1}\text{Horizontal}: 2.9^{\circ} (\text{TELE}) - 58^{\circ} (\text{WIDE}), \text{Vertical}: 2.2^{\circ} (\text{TELE}) - 44^{\circ} (\text{WIDE}) \\ & 1:1.6 (WIDE) - 1: 4.5 (\text{TELE}) \\ & .5.m (50-1)/6 \text{ inches}) - \infty \end{split}$ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft 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 Wide: 5.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft \\ \end{split}		
System o	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC)	$eq:started_st$		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) Angle	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 1293.8 m / 4244.9 ft Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft Wide: 5.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft Ambarella CV25M Horizontal : 360° Endless Panning, Vertical : -15 to +195°, Yaw : 0°		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC)	eq:space-		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) JAngle Panning Range	eq:space-		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) Angle	$\label{eq:second} \begin{split} & ^{1}\text{Horizontal}: 2.9^{\circ} (\text{TELE}) - 58^{\circ} (\text{WIDE}), \text{Vertical}: 2.2^{\circ} (\text{TELE}) - 44^{\circ} (\text{WIDE}) \\ & 1:1.6 (\text{WIDE}) - 1: 4.5 (\text{TELE}) \\ & 1.5 \text{ m} (50-1)16 \text{ inches}) - \infty \\ & \text{Wide}: 50.9 \text{ m} / 170.3 \text{ ft}, \text{Tele}: 129.8 \text{ m} / 4244.9 \text{ ft} \\ & \text{Wide}: 50.8 \text{ m} / 68.1 \text{ ft}, \text{Tele}: 575.5 \text{ m} / 1697.9 \text{ ft} \\ & \text{Wide}: 50.2 \text{ m} / 17.0 \text{ ft}, \text{Tele}: 575.8 \text{ m} / 849.0 \text{ ft} \\ & \text{Wide}: 52.\text{ m} / 17.0 \text{ ft}, \text{Tele}: 129.4 \text{ m} / 424.5 \text{ ft} \\ & \text{Ambarella} CV25M \\ & \text{Horizontal}: 360^{\circ} \text{ Endless Panning}, \text{Vertical}: -15 \text{ to} +195^{\circ}, \text{Yaw}: 0^{\circ} \\ & 360^{\circ} \text{ Endless Panning} \\ & \text{Manual: Approx}. 0.065^{\circ}\text{/s} - 150^{\circ}\text{/s} \\ & \text{Statistical constants} \\ & \text{Horizontal} = 500 \text{ ft} + 50^{\circ}\text{ ft} \\ & \text{Wide} = 50.2 \text{ m} + 50^{\circ}\text{ ft} \\ & \text{Manual} + 500^{\circ}\text{ constants} \\ & \text{Warellower for the statistical constants} \\ & \text{Manual} + 500^{\circ}\text{ constants} \\ & \text{Manual} + 500^{\circ$		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) n Angle Panning Range Panning Speed	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 1293.8 m / 4244.9 ft Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft Wide: 5.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) Panning Range Panning Speed Tilting Range	$\label{eq:constraint} \begin{array}{l} \text{'Horizontal: } 2.9^\circ (\text{TELE}) - 58^\circ (\text{WIDE}), \text{Vertical: } 2.2^\circ (\text{TELE}) - 44^\circ (\text{WIDE}) \\ 1: 1.6 (WIDE) - 1: 4.5 (\text{TELE}) \\ 1.5 m (50^{-1}) / 16 \text{ inches}) - \infty \\ \hline \\ \text{Wide: } 51.9 m / 170.3 \text{ ft}, \text{Tele: } 129.3 m / 4244.9 \text{ ft} \\ \hline \\ \text{Wide: } 0.2 n m / 68.1 \text{ ft}, \text{Tele: } 517.5 m / 1697.9 \text{ ft} \\ \hline \\ \text{Wide: } 0.2 n m / 68.1 \text{ ft}, \text{Tele: } 517.5 m / 1697.9 \text{ ft} \\ \hline \\ \text{Wide: } 0.2 n m / 68.1 \text{ ft}, \text{Tele: } 129.4 m / 424.5 \text{ ft} \\ \hline \\ \text{Ambarella } CV25M \\ \hline \\ \text{Horizontal: } 360^\circ \text{ fndless Panning}, \text{Vertical: } -15 \text{ to } +195^\circ, \text{Yaw: } 0^\circ \\ \hline \\ 360^\circ \text{ Endless Panning} \\ \hline \\ \text{Manual: } \text{Approx. } 0.065^\circ/\text{s} - 150^\circ/\text{s} \\ \hline \\ \text{Preset: } \text{Up to approx. } 500^\circ/\text{s} \\ \hline \\ \text{Operational } -15 - +195^\circ \end{array}$		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) n Angle Panning Range Panning Speed	eq:space-		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (50C) Angle Panning Range Panning Speed Tilting Range Tilting Speed	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 10.4 m / 34.1 ft, Tele: 528.8 m / 849.0 ft Wide: 52.0 m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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° Annual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (PoE+), Up to approx. 350° /s (DC12 V POE)		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) Panning Range Panning Speed Tilting Range	$\label{eq:second} \begin{split} & ^{1}\text{Horizontal}: 2.9^{\circ} (\text{TELE}) - 58^{\circ} (\text{WIDE}), \text{Vertical}: 2.2^{\circ} (\text{TELE}) - 44^{\circ} (\text{WIDE}) \\ & 1:1.6 & (\text{WIDE}) - 1:4.5 & (\text{TELE}) \\ & 1.5 & (\text{50-1}) / 16 & \text{inches} \right) - \infty \\ & \text{Wide}: 51.9 & \text{M} / 170.3 \text{ ft}, \text{Tele}: 1293.8 & \text{M} / 4244.9 \text{ ft} \\ & \text{Wide}: 20.8 & \text{M} & 68.1 \text{ ft}, \text{Tele}: 517.5 & \text{M} & 1697.9 \text{ ft} \\ & \text{Wide}: 0.2 & \text{M} & 163.1 \text{ ft}, \text{Tele}: 517.5 & \text{M} & 1697.9 \text{ ft} \\ & \text{Wide}: 5.2 & \text{M} & 163.1 \text{ ft}, \text{Tele}: 129.4 & \text{M} & 424.5 \text{ ft} \\ & \text{Ambarella} & \text{CV25M} \\ & \text{Horizontal}: 360^{\circ} \text{ fndless Panning}, \text{Vertical}: -15 \text{ to} +195^{\circ}, \text{Yaw}: 0^{\circ} \\ & 360^{\circ} \text{ Endless Panning} \\ & \text{Manual: Approx. } 0.065^{\circ}/\text{s} - 150^{\circ}/\text{s} \\ & \text{Preset: Up to approx. 500^{\circ}/\text{s} \\ & \text{Operational} & -15 - +195^{\circ} \\ & \text{Manual: Approx. } 0.065^{\circ}/\text{s} - 150^{\circ}/\text{s} \\ & \text{Preset: Up to approx. 500^{\circ}/\text{s} \\ & Preset: Up to approx.$		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (50C) Angle Panning Range Panning Speed Tilting Range Tilting Speed	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 10.4 m / 34.1 ft, Tele: 528.8 m / 849.0 ft Wide: 52.0 m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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° Annual: Approx. 0.065° /s -150° /s Preset: Up to approx. 500° /s (PoE+), Up to approx. 350° /s (DC12 V POE)		
System o Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) n Chip (SoC) Angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions	$\label{eq:second} \begin{split} & ^{1}\text{Horizontal}: 2.9^{\circ} (\text{TELE}) - 58^{\circ} (\text{WIDE}), \text{Vertical}: 2.2^{\circ} (\text{TELE}) - 44^{\circ} (\text{WIDE}) \\ & 1:1.6 & (\text{WIDE}) - 1:4.5 & (\text{TELE}) \\ & 1.5 & (\text{50-1}) / 16 & \text{inches} \right) - \infty \\ & \text{Wide}: 51.9 & \text{M} / 170.3 \text{ ft}, \text{Tele}: 1293.8 & \text{M} / 4244.9 \text{ ft} \\ & \text{Wide}: 20.8 & \text{M} & 68.1 \text{ ft}, \text{Tele}: 517.5 & \text{M} & 1697.9 \text{ ft} \\ & \text{Wide}: 0.2 & \text{M} & 163.1 \text{ ft}, \text{Tele}: 517.5 & \text{M} & 1697.9 \text{ ft} \\ & \text{Wide}: 5.2 & \text{M} & 163.1 \text{ ft}, \text{Tele}: 129.4 & \text{M} & 424.5 \text{ ft} \\ & \text{Ambarella} & \text{CV25M} \\ & \text{Horizontal}: 360^{\circ} \text{ fndless Panning}, \text{Vertical}: -15 \text{ to} +195^{\circ}, \text{Yaw}: 0^{\circ} \\ & 360^{\circ} \text{ Endless Panning} \\ & \text{Manual: Approx. } 0.065^{\circ}/\text{s} - 150^{\circ}/\text{s} \\ & \text{Preset: Up to approx. 500^{\circ}/\text{s} \\ & \text{Operational} & -15 - +195^{\circ} \\ & \text{Manual: Approx. } 0.065^{\circ}/\text{s} - 150^{\circ}/\text{s} \\ & \text{Preset: Up to approx. 500^{\circ}/\text{s} \\ & Preset: Up to approx.$		
System o Adjusting Pan/tilt	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (50C) angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	$\label{eq:second} \begin{array}{l} ^{1}\mbox{Horizontal}: 2.9^{\circ} (\mbox{TELE}) - 58^{\circ} (\mbox{WIDE}), \mbox{Vertical}: 2.2^{\circ} (\mbox{TELE}) - 44^{\circ} (\mbox{WIDE}) \\ 1: 1.6 (\mbox{WIDE}) - 1: 4.5 (\mbox{TELE}) \\ 1.5 m (50-1)(6 \mbox{inches}) - \infty \\ \hline \\ \mbox{Wide}: 51.9 m (170.3 \mbox{ft}, \mbox{Tele}: 129.8 m / 4244.9 \mbox{ft} \\ \hline \\ \mbox{Wide}: 52.8 m / 68.1 \mbox{ft}, \mbox{Tele}: 517.5 m / 1697.9 \mbox{ft} \\ \hline \\ \mbox{Wide}: 52.8 m / 68.1 \mbox{ft}, \mbox{Tele}: 517.5 m / 1697.9 \mbox{ft} \\ \hline \\ \mbox{Wide}: 52.8 m / 68.1 \mbox{ft}, \mbox{Tele}: 517.5 m / 1697.9 \mbox{ft} \\ \hline \\ \mbox{Wide}: 52.0 m / 17.0 \mbox{ft}, \mbox{Tele}: 517.5 m / 1697.9 \mbox{ft} \\ \hline \\ \mbox{Wide}: 52.0 m / 17.0 \mbox{ft}, \mbox{Tele}: 512.9 \mbox{ft} \\ \mbox{Wide}: 52.0 \mbox{mod} \\ \mbox{Horizontal}: 360^{\circ} \mbox{Endless Panning} \\ \mbox{Morall}: 360^{\circ} \mbox{Endless Panning} \\ \mbox{Manual}: \mbox{Approx}. 0.065^{\circ}/s - 150^{\circ}/s \\ \mbox{Preset: Up to approx}. 500^{\circ}/s \\ \mbox{Operational} -15 - +195^{\circ} \\ \mbox{Manual}: \mbox{Approx}. 0.065^{\circ}/s - 510^{\circ}/s \\ \mbox{Preset: Up to approx}. 500^{\circ}/s (\mbox{PCE}), \mbox{Up to approx}. 350^{\circ}/s (\mbox{DC12 V POE}) \\ \mbox{256 positions} \\ \mbox{Auto pan / Preset sequence/ Patrol} \\ \mbox{10 s/} 20 \mbox{s/} 30 \mbox{min}/ 30 \mbox{min}/ 60 \mbox{min} \\ \end{tabular}$		
System o Adjusting Pan/tilt	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) angle Panning Kange Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control	eq:space-		
System o Adjusting Pan/tilt Browser	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (50C) angle Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1:1.6 (WIDE) - 1: 4.5 (TELE) 1:5.m (50-1/16 inches) - ∞ Wide: 51.9m / 170.3 ft, Tele: 129.3.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.8 m / 34.1 ft, Tele: 528.8 m / 849.0 ft Wide: 52.0 m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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 pan / Preset sequence/ Patrol 10 s/ 20 s/ 30 s/1 mini / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min Brightness, AUX On / Off Mic (Line) Input : On / Off		
System o Adjusting Pan/tilt Browser	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) a Chip (50C) a Angle Panning Range Panning Speed Tilting Range Tilting Speed Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio	eq:space-		
System o Adjusting Pan/tilt Browser	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1)/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 52.0 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n / 64.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 70.0 ft, Tele: 129.4 m / 424.5 ft 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 (POE+). Up to approx. 350° s (DC12 V POE) 256 positions Auto pan/ Preset sequence/ Patrol 10 s/2 0s j/3 0s j 1 min/2 min/3 min / 5 min/10 min/20 min/60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Mid (Line) Input : On / Off Molu atjustment : Low / Middle / High Autio panex, AUX On / Off Mic (Line) Input : On / Off		
System o Adjusting Pan/tilt Browser	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) a Chip (50C) a Angle Panning Range Panning Speed Tilting Range Tilting Speed Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio	eq:space-		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1)/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 52.0 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n / 64.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 9.4 1, ft, Tele: 258.8 m / 849.0 ft Wide: 0.2 n / 70.0 ft, Tele: 129.4 m / 424.5 ft 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 (POE+). Up to approx. 350° s (DC12 V POE) 256 positions Auto pan/ Preset sequence/ Patrol 10 s/2 0s j/3 0s j 1 min/2 min/3 min / 5 min/10 min/20 min/60 min Brightness, AUX On / Off Mic (Line) Input : On / Off Mid (Line) Input : On / Off Molu atjustment : Low / Middle / High Autio panex, AUX On / Off Mic (Line) Input : On / Off		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) n Chip (S	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9m (70.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 20.8 m / 63.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 10.4 m / 34.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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 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 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) Iput : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T1 / 1008ase-TX, R445 connectro		
System o Adjusting Pan/tilt Browser	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1)16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 0.2 n m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.2 n m / 64.1 ft, Tele: 518.8 m / 849.0 ft Wide: 0.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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 Auto pan/ Prest sequence/ Patrol 10 s/ 20 s/ 30 s/ 1min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 60 min Brightness, AUX On / Off Wic 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, German, Spanish, Portuguese, Russian, Chinese, Iapanese Microsoft Edge, Firefox, Google Chrome 108ase-17 / 1008ase-17x, RJ45 connector 16 : 9 mode (60 fs mode)] ^{*2} , 16 : 9 mode (30 fs mode)] ,		
System o Adjusting Pan/tilt Browser GUI	Focus range Focus range Detect (25ppm / 8pf) Observe (62.5ppm / 19pf) Recognize (125ppm / 38pf) Identify (250ppm / 76ppf) n Chip (50C) a 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'3 Network IF	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1.5.m (50-1/16 inches) - ∞ Wide: 51.9m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 5.2 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 0.4 m / 34.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.5 m / 170.0 ft, Tele: 129.4 m / 424.5 ft 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 pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 10 min/ 20 min/ 30 min/ 60 min Brightness, AuX On / Off Mic (Line) Input : On / O		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 52.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 10.4 m / 34.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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 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 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 Wic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spansh, Portuguese, Russian, Chinese, Iapanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector [16 : 9 mode (60 fps mode)] ¹² , [16 : 9 mode (23 fps mode)] , [16 : 9 mode (60 fps mode)] ¹² , [16 : 9 mode (25 fps mode)]		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1)/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 02.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.5 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 0.5 m / 180.7 ft, Tele: 129.4 m / 424.5 ft Ambarella CV25M Horizontal : 500° fnolless Panning, Vertical : -15 to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s (DCE+), Up to approx. 350°/s (DCI2 V 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/ 30 min/ 60 min Brightness, AUX On / Off Mcico Unput : On / Off Midel p High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-17 / 100Base-17 / 100Base-17 / 100Base-17 / 100B		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	eq:space-		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1)/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 02.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.5 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 0.5 m / 180.7 ft, Tele: 129.4 m / 424.5 ft Ambarella CV25M Horizontal : 500° fnolless Panning, Vertical : -15 to +195°, Yaw : 0° 360° Endless Panning Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s Operational - 15 - +195° Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s Operational -15 - +195° Manual: Approx. 0.005°/s - 150°/s Preset: Up to approx. 500°/s (DCE+), Up to approx. 350°/s (DCI2 V 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/ 30 min/ 60 min Brightness, AUX On / Off Mcico Unput : On / Off Midel p High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-17 / 100Base-17 / 100Base-17 / 100Base-17 / 100B		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) ang Range Panning Range Panning Speed Tilting Range Tilting Speed Preset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 1.5 m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.m / 17.0 ft, Tele: 129.4 m / 424.5 ft 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 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 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 Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Iapanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector 16 6: 9 mode (60 fps mode) ¹² , 1 ft 6: 9 mode (25 fps mode)] 1 202x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (13 fps mode)], [4 : 3 mode (25 fps mode)]		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) n Chip (S	$\label{eq:second} \begin{array}{l} \label{eq:second} \begin{tabular}{lllllllllllllllllllllllllllllllllll$		
System o Adjusting Pan/tilt Browser GUI	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) angle Panning Kange Panning Speed Tilting Range Tilting Range Tilting Speed Freset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 5.m (50-1)/16 inches) - ∞ Wide: 51.9m / 170.3 ft, Tele: 129.3.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 5.2 m / 170.3 ft, Tele: 129.3.8 m / 4244.9 ft Wide: 0.4 m / 64.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 0.5 m / 170.0 ft, Tele: 129.4 m / 424.5 ft 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 (POE+). Up to approx. 350° /s (DC12 V POE) 256 positions Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 3 0 s/1 min/ 2 min/ 3 min / 5 min / 10 min / 20 min / 60 min Brightness, AUX On / Off Mc (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 Audio Soft Edge, Firefox, Google Chrome 10Base-T / 100Base-T / X, R45 connector 10F s mode (60 fps mode)] ⁷ 2, [16 : 9 mode (30 fps mode)], 16 : 9 mode (50 fps mode)] ⁷ 2, [16 : 9 mode (30 fps mode)] 17 : 3 mode (15 ofps mode)]		
System o Adjusting Pan/tilt Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) a Angle Panning Range Panning Speed Tilting Range Tilting Speed Self Return Camera Control Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser' ³ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.265/ Transmission Type	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 5.m (50-1)/16 inches) - ∞ Wide: 51.9m / 170.3 ft, Tele: 129.3.8 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.8 m / 84.0 ft Wide: 52.8 m / 84.0 ft Wide: 52.8 m / 84.0 ft Wide: 52.8 m / 70.0 ft, Tele: 129.4 m / 424.5 ft 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 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 Kic (Line) Input : On / Off Nolume adjustment : Low / Middle / High Audio Output : On / Off IG : 9 mode (60 fps mode)] [*] 2 , [I6 : 9 mode (30 fps mode)], If : 9 mode (60 fps mode)] [*] 2 , [I6 : 9 mode (25 fps mode)]		
System o Adjusting Pan/tilt Browser GUI	Focus range Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) n Chip (SoC) angle Panning Kange Panning Speed Tilting Range Tilting Range Tilting Speed Freset Positions Auto Mode Self Return Camera Control Audio GUI / Setup Menu Language Browser ³ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	'Horizontal : 2.9° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 1: 1.6 (WIDE) - 1: 4.5 (TELE) 1: 5.m (50-1/16 inches) - ∞ Wide: 51.9 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft Wide: 52.0 m / 170.3 ft, Tele: 129.3 m / 4244.9 ft Wide: 0.4 m / 34.1 ft, Tele: 518.8 m / 424.5 ft 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 pan/ Preset sequence/ Patrol 10 s/2 0.3 / 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min / 60 min Brightness, AUX On / Off Miccusoft Edge, Firefox, Google Chrome 10Base-T / 100Base-T / XR45 connector [16 : 9 mode (60 fps mode)] ¹ c , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] ² , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] ² , [16 : 9 mode (25 fps mode)] 1920x0800, 1280x720, 640x803, 320x180 [1 : 3 mode (15 fps mode)], [4 : 3 mode (25 fps mode)]		

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 duples
	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, LLD
		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,
	N (C) 11	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 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/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) (x
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), 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	
	Anti-Condensation System	Temish element
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliar
	Shock Resistance	IK10 (IEC 62262)
	Other standard support	NEMA TS2(2.2.7-2.2.9)
	Dimensions	ø165 mm x 153 mm (H) {ø6-1/2 inches x 6-1/32 inches (H)}
	Mass (approx.)	Approx. 1.7 kg {3.75 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)

¹ Converted value
² When 60 fbys 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



With Attachment plate & Attachment cover

Unit : mm (inches)

Optional Accessories

N	Mount Bracket / Other							
	WALL		POLE	CORNER	HANGING			
combination	1	2	1	1	1	2		
	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.

Cable

		CEILING	OTHER			
	1	2	3	1		
combination	Base Bracket WV-QJB501-W (White)	Ceiling Mount Bracket (Embedded) WV-QEM504-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)	3	
				WV-QSR501M1-W (White, ANSI Male thread)		

Dome Cover



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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