# The new Standard by i-PRO video surveillance

# 2MP (1080p) Outdoor Bullet Network Camera

The S-Series network cameras offer a new standard in i-PRO video surveillance with drastically improved image quality with advanced technology. It comes with pre-installed Al analytics applications that detects people and vehicles with accuracy, allowing you to easily start state-of-the-art video surveillance.

The camera can be configured while keeping the unit in the box with the acclaimed "Easy Kitting Packaging", making the installation process smooth and easy.

# **Key Features**

- Drastically improved image quality by advanced technology and Al intelligent Auto
- Pre-installed AI analytics applications to detect human and vehicles. Ready for installing 3rd party applications
- Detecting suspicious sound like Gunshot, Yell, Vehicle horn, and Glass break, with external microphones
- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box
- i-PRO Configuration Tool "iCT" can set up 1024 cameras at the same time.

(iCT page: https://i-pro.com/global/en/surveillance/tools/ict)

## Key i-PRO Spec.

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.011 to 0.015 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- IK10 Vandal Resistant
- ONVIF® Profile G / M / S / T \*ONVIF is a trademark of ONVIF, Inc.







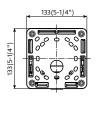
## **Specifications**

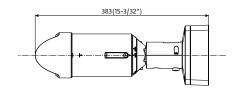
Camera	Pra Image Sensor Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color: 0.011 lx (30IRE, F1.7, 1/30s) *1	
		Color: 0.015 lx (50IRE, F1.7, 1/30s)	
		BW: 0.008 lx (50IRE, F1.7, 1/30s)	
		BW: 0 lx (50IRE, F1.7,1/30s with IR LED)	
	White Balance	ATW1 / ATW2 / AWC	
	Shutter Speed	[60 fps 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 On   Off, The level can be set in the range of 0 to 31.	
	Super Dynamic*2		
	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) /	
	High light compensation	Off (only when Super dynamic / Intelligent Auto : Off)	
	Fog compensation	On / Off (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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /	
		Auto2 (IR Light On) / Auto3 (SCC)	
	IR LED Light	High / Middle / Low / Off,	
	_	Maximum irradiation distance: 70 m {Approx. 230 ft} (30IRE) *1	
		50 m {Approx. 164 ft} (50IRE)	
	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	Gunshot, Yell, Vehicle horn, Glass break	
	Al Analytics	Yes	
	Privacy Zone	On / Off, Up to 8 zones available	
	VIQS	On / Off, Up to 8 zones available	
	Image rotation*3	0°/90°/180°/270°	
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)	
	Focus Adjustment	Auto focus	
Lens	Optical zoom	2.3x (Motorized zoom / Motorized Focus)	
	Extra zoom	2.3x - 6.9x (when resolution is 640 x 360)	
	Focal length	9 - 21 mm {11/32 inches - 13/16 inches}	
	Angular Field of View	[16 : 9 mode]	
		Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)	
		Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)	
	Maximum Aperture Ratio	Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  [ 4 : 3 mode]  Horizontal : 11° (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)	
		Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (WIDE)  [ 4 : 3 mode] Horizontal : 11° (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  1 : 1.7 (WIDE) – 1 : 3.0 (TELE)	
DORI	Focus range	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  Horizontal : 11° (TELE) – 27° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  1 : 1.7 (MIDE) – 1 : 3.0 (TELE)  2 m {78-3/4 inches} – ∞	
DORI		Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (WIDE)  [ 4:3 mode]  Horizontal : 11° (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  1:1.7 (WIDE) – 1:3.0 (TELE)  2 m {78-3/4 inches} – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft	
DORI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf)	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1: 1.7 (MIDE) – 1: 3.0 (TELE)  2 m (78-3)/4 inches) – ∞  Wide: 118.2 m (387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft	
DORI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf)	Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  [ 4 : 3 mode]  Horizontal : 11° (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  1: 1.7 (WIDE) – 1: 3.0 (TELE)  2 m (78-3/4 inches) – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft	
	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf)	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1: 17 (MIDE) – 1: 3.0 (TELE)  2 m (78-3/4 inches) – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft	
System on	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE) [ <b>4 : 3 mode</b> ] Horizontal : 11° (TELE) – 27° (MIDE), Vertical : 9° (TELE) – 20° (MIDE) 1 : 1.7 (MIDE) – 1 : 3.0 (TELE) 2 m {78-3}/4 inches} – ∞ Wide: 118.2 m   387.7 ft, Tele: 291.7 m   956.9 ft Wide: 47.3 m   155.1 ft, Tele: 16.7 m   382.8 ft Wide: 23.6 m   77.5 ft, Tele: 58.3 m   191.4 ft Wide: 11.8 m   38.8 ft, Tele: 29.2 m   95.7 ft	
System on Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC)	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1: 17 (TELE) – 27° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  1: 1.7 (MIDE) – 1: 3.0 (TELE)  2 m {78-3}/4 inches) – ∞  Wide: 118.2 m {387.7 ft. Tele: 291.7 m } 956.9 ft  Wide: 47.3 m   155.1 ft. Tele: 116.7 m   382.8 ft  Wide: 23.6 m   77.5 ft. Tele: 58.3 m   191.4 ft  Wide: 11.8 m   38.8 ft. Tele: 29.2 m   95.7 ft  Ambarella CV25M	
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System on Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC)	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1: 17 (MIDE) – 1: 3.0 (TELE)  2 m (78-3)/4 inches) – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 118.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal: ±180 ° (PAN rotation part)  Vertical : 0° to 100 ° (TILT rotation part)  Horizontal: ±100 ° (YAW rotation part)  Horizontal: ±100 ° (YAW rotation part)	
System on Adjusting	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1: 17 (MIDE) – 1: 3.0 (TELE)  2 m (78-3)/4 inches) – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 118.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal: ±180 ° (PAN rotation part)  Vertical : 0° to 100 ° (TILT rotation part)  Horizontal: ±100 ° (YAW rotation part)  Horizontal: ±100 ° (YAW rotation part)	
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System on Adjusting Angle	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  [ 4 : 3 mode]  1 : 17 (TELE) – 27° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)  1 : 1.7 (MIDE) – 1 : 3.0 (TELE)  2 m (78-3)4 inches) – ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 18.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 23.6 m / 77.5 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : 180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw : −190° to +100° (YAW rotation part)  Vertical : 100° (TILT rotation part)  Vertical : 100° (VILT rotation part)	
System on Adjusting Angle Browser	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (5oC) Ceiling mounting Wall mounting	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)   [ 4 : 3 mode]   1: 17 (TELE) – 27° (MIDE), Vertical : 9° (TELE) – 20° (MIDE)   1: 1.7 (WIDE) – 1: 3.0 (TELE)   2 m (78-3)4 inches) – ∞   Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft   Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft   Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft   Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft   Ambarella CV25M   Horizontal : ±180° (PAN rotation part)   Vertical : 0° to 100° (TILT rotation part)   Horizontal : ±100° (TILT rotation part)   Vertical : ±100° (TILT rotation part)   Vertical : ±100° (TILT rotation part)   Vertical : ±100° (TILT rotation part)   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   *You can change between horizontal and vertical angels by adjusting the PAN rotation part   **Total model **Total mo	
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System on Adjusting Angle Browser	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (5oC) Ceiling mounting  Wall mounting  Camera Control Audio	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  1: 17 (TELE) - 27° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  1: 1.7 (MIDE) - 1: 3.0 (TELE)  2 m (78-3)4 inches) - ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : £180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw : −190° to +100° (YAW rotation part)  Horizontal : £100° (TILT rotation part)  Yertical : £100° (TILT rotation part)  *You : −190° to +100° (YAW rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  Brightness, AUX On / Off  Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High  Audio Output: On / Off Volume adjustment: Low / Middle / High	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio  GUI / Setup Menu Language Browser' 4	Horizontal : 15" (TELE) – 36" (MIDE), Vertical : 9" (TELE) – 20" (MIDE)   [ 4 : 3 mode]   I + 3 mode]   1 : 1.7 (WIDE) – 1 : 3.0 (TELE)   2 m {78-3} / 4 inches) – ∞   Wide: 118.2 m {38.7 ft, Tele: 291.7 m / 956.9 ft   Wide: 118.2 m {38.7 ft, Tele: 291.7 m / 956.9 ft   Wide: 23.6 m / 77.5 ft, Tele: 116.7 m / 382.8 ft   Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft   Wide: 18.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft   Ambarella CV25M   Horizontal : 1180 " (PAN rotation part)   Vertical : 0" to 100 " (TILT rotation part)   Yaw : −190 " to +100 " (YAW rotation part)   Horizontal : 1100 " (TILT rotation part)   Yertical : 1100 " (TILT rotation part)   Yertical : 100 " (TILT rotation part)   Yertical : 1100 " (TILT rotation part)   Yaw : −190 " to +100 " (YAW rotation part)   Yaw : −190 " to +100 " (YAW rotation part)   Microsoft Edys No 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   Microsoft Edge, Firefox, Google Chrome	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio  GUI / Setup Menu Language Browser' 4	Horizontal : 15° (TELE) – 36° (MIDE), Vertical : 9° (TELE) – 20° (WIDE)  [ 4 : 3 mode]  1: 17 (TELE) – 27° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)  1: 1.7 (WIDE) – 1: 3.0 (TELE)  2 m {78-3} (4 inches) – ∞  Wide: 118.2 m {387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : 1180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Vertical : 1100° (TILT rotation part)  Vertical : ±100° (TILT rotation part)  Vertical : ±100° (TILT rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  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, Japanes  Microsoft Edge, Firefox, Google Chrome  108ase-T / 1008ase-TX, RM5 connector	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  1: 1,7 (MIDE) - 1: 3.0 (TELE)  2: 17 (R8-3) 4 inches) - ∞  Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 18.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : ±180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw : -190° to +100° (YAW rotation part)  Horizontal : ±100° (TILT rotation part)  You : -190° to +100° (YAW rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  Brightness, AUX On / Off  Mic (Line) Input: On / Off  Wic (Line) Input: On / Off  Volume adjustment: Low / Middle / High  English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes  Microsoft Edge, Firefox, Google Chrome  108ase-T / 1008ase-TX, RJ45 connector  [16:9 mode (60 fps mode)]*2, [16:9 mode (30 fps mode)],	
	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (5oC) Ceiling mounting  Wall mounting  Camera Control Audio  GUI / Setup Menu Language Browser' 4 Network IF	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (WIDE)     4 : 3 mode      1: 1,7 (WIDE) - 1: 3.0 (TELE) - 27° (WIDE), Vertical : 9° (TELE) - 20° (WIDE)     1: 1,7 (WIDE) - 1: 3.0 (TELE)     2 m (78-3)/4 inches) - ∞     Wide: 118.2 m (38.7 ft, Tele: 291.7 m / 956.9 ft     Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft     Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft     Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft     Wide: 18.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft     Ambarella CV25M     Horizontal : ±180° (PAN rotation part)     Vertical : 0° to 100° (TILT rotation part)     Vertical : 0° to 100° (TILT rotation part)     Horizontal : ±100° (TILT rotation part)     Vertical : 100° (TILT rotation part)     Vertical : 100° (TILT rotation part)     Vertical : ±100° (TILT rotation part)     Vaw : -190° to +100° (YAW rotation part)     Vaw : -190° to +100° (YAW rotation part)     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     Audio Output : 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 Output : On / Off     Volume adjustment : Low / Middle / High     Microsoft Edge, Firefox, Google Chrome     108ase-T / 1008ase-Tx, R45 connector     16: 9 mode (50 fps mode)]     16: 9 mode (50 fps mode)]     16: 9 mode (50 fps mode)]	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (WIDE)  [ 4 : 3 mode]  I thorizontal : 11° (TELE) - 27° (WIDE), Vertical : 9° (TELE) - 20° (WIDE)  1 : 1.7 (WIDE) - 1 : 3.0 (TELE)  2 m [78-3] 4 inches] - ∞  Wide: 118.2 m ] 387.7 ft, Tele: 291.7 m ] 956.9 ft  Wide: 12.3 m ] 155.1 ft, Tele: 116.7 m ] 382.8 ft  Wide: 23.6 m ] 77.5 ft, Tele: 58.3 m ] 191.4 ft  Wide: 11.8 m ] 38.8 ft, Tele: 29.2 m ] 95.7 ft  Ambarella CV25M  Horizontal : 1180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw :-190° to +100° (YAW rotation part)  Vertical : ±100° (TILT rotation part)*  Vertical : ±100° (TILT rotation part)*  Yaw :-190° to +100° (YAW rotation part)  "You can change between horizontal and vertical angels by adjusting the PAN rotation part  Brightness, AUX On J Off  Wile (Line) Input: On J Off Volume adjustment : Low J Middle / High  Audio Output : On J Off Volume adjustment : Low J Middle / High  Audio Output : On J Off Volume adjustment : Low J Middle / High  Audio Output : On J Off Volume adjustment : Low J Middle / High  Brightness, AUX On J Off Volume adjustment : Low J Middle / High  Audio Output : On J Off Volume adjustment : Low J Middle / High  Brightness (26, Firefox, Google Chrome  108ase-T / 1008ase-TX, RJ45 connector  [16: 9 mode (60 fps mode)] - 16: 9 mode (25 fps mode)]  1920x1080, 1280x720, 640x360, 320x180	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  I thorizontal : 11° (TELE) - 27° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  1 : 1.7 (MIDE) - 1 : 3.0 (TELE)  2 m {78-3}/4 inches} - ∞  Wide: 18.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 47.3 m / 155.1 ft, Tele: 16.7 m / 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : ±180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw : -190° to +100° (YAW rotation part)  Horizontal : ±100° (TILT rotation part)  You can change between horizontal and vertical angels by adjusting the PAN rotation part  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  Audio Output : On / Off Volume adjustment : Low / Middle / High  Brightness, AUX On / Off  Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High  Audio Output : On / Off Volume adjustment : Low / Middle / High  Brightness / Hay Save / High Save / H	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE) [  4 : 3 mode]  1 : 1,7 (WIDE) – 1 : 3.0 (TELE)  2 m (78-3)/4 inches) – ∞  Wide: 118.2 m/3 87.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 18.2 m/3 87.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 18.8 m/3 8.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : 180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw : -190° to +100° (YAW rotation part)  Horizontal : 1100° (TILT rotation part)  Yaw : -190° to +100° (YAW rotation part)  Yaw : -190° to +100° (YAW rotation part)  Morizontal : 1100° (TILT rotation part)  Yaw : -190° to +100° (YAW rotation part)  Morizontal : 100° (TILT rotation part)  You can change between horizontal and vertical angels by adjusting the PAN rotation part 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 Audio Output : 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 Output : 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 Output : 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 Output : 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 Output : 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 Outp	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  1 : 17 (TELE) - 27° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  1 : 1.7 (MIDE) - 1 : 3.0 (TELE)  2 m [78-3] 4 inches] - ∞  Wide: 118.2 m ] 387.7 ft, Tele: 291.7 m ] 956.9 ft  Wide: 12.3 m ] 155.1 ft, Tele: 116.7 m ] 382.8 ft  Wide: 23.6 m ] 77.5 ft, Tele: 58.3 m ] 191.4 ft  Wide: 11.8 m ] 38.8 ft, Tele: 29.2 m ] 95.7 ft  Ambarella CV25M  Horizontal : 1180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw :-190° to +100° (YAW rotation part)  Vertical : 1100° (TILT rotation part)  Yaw :-190° to +100° (YAW rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  Brightness, AUX On J Off  Wile (Line) Input: On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Brightness, AUX On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Brightness (50 fps mode)] [ 16 : 9 mode (30 fps mode)],  [16 : 9 mode (60 fps mode)] [ 16 : 9 mode (25 fps mode)]  1920x1080, 1280x720, 640x360, 320x180  [4 : 3 mode (15 fps mode)], [4 : 3 mode (2.5 fps mode)]	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (50C) Ceiling mounting  Wall mounting  Camera Control Audio  GUI / Setup Menu Language Browser' 4 Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  I thorizontal : 11° (TELE) - 27° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  1: 1.7 (MIDE) - 1: 3.0 (TELE)  2 m {78-3}/4 inches} - ∞  Wide: 118.2 m {387.7 ft, Tele: 291.7 m / 956.9 ft  Wide: 118.2 m {387.7 ft, Tele: 16.7 m } 382.8 ft  Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft  Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft  Ambarella CV25M  Horizontal : 1180° (PAN rotation part)  Vertical : 0° (to 100° (TILT rotation part)  Vertical : 100° (TILT rotation part)  Vertical : 1100° (TILT rotation part)  *You : -190° to +100° (YAW rotation part)  *You : -190° to 100° (YAW rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  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, German, Spanish, Portuguese, Russian, Chinese, Japanes  Microsoft Edge, Firefox, Google Chrome  108ase-T7   1008ase-Tx, R445 connector  [16: 9 mode (50 fps mode)] <sup>2</sup> ; [16: 9 mode (25 fps mode)]  1280x980, VGA, QVGA  [4: 3 mode (15 fps mode)], [4: 3 mode (25 fps mode)]  2048x1536°5, 1280x960, VGA, QVGA	
System on Adjusting Angle Browser GUI	Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Chip (SoC) Ceiling mounting  Wall mounting  Camera Control Audio GUI / Setup Menu Language Browser' <sup>4</sup> Network IF Resolution	Horizontal : 15° (TELE) - 36° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  [ 4 : 3 mode]  1 : 17 (TELE) - 27° (MIDE), Vertical : 9° (TELE) - 20° (MIDE)  1 : 1.7 (MIDE) - 1 : 3.0 (TELE)  2 m [78-3] 4 inches] - ∞  Wide: 118.2 m ] 387.7 ft, Tele: 291.7 m ] 956.9 ft  Wide: 12.3 m ] 155.1 ft, Tele: 116.7 m ] 382.8 ft  Wide: 23.6 m ] 77.5 ft, Tele: 58.3 m ] 191.4 ft  Wide: 11.8 m ] 38.8 ft, Tele: 29.2 m ] 95.7 ft  Ambarella CV25M  Horizontal : 1180° (PAN rotation part)  Vertical : 0° to 100° (TILT rotation part)  Yaw :-190° to +100° (YAW rotation part)  Vertical : 1100° (TILT rotation part)  Yaw :-190° to +100° (YAW rotation part)  *You can change between horizontal and vertical angels by adjusting the PAN rotation part  Brightness, AUX On J Off  Wile (Line) Input: On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Brightness, AUX On J Off Volume adjustment : Low J Middle J High  Audio Output : On J Off Volume adjustment : Low J Middle J High  Brightness (50 fps mode)] [ 16 : 9 mode (30 fps mode)],  [16 : 9 mode (60 fps mode)] [ 16 : 9 mode (25 fps mode)]  1920x1080, 1280x720, 640x360, 320x180  [4 : 3 mode (15 fps mode)], [4 : 3 mode (2.5 fps mode)]	

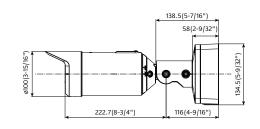
Network	Smart Coding	GOP (Group of pictures control):	
		Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /	
		Advanced (Fixed GOP 60s w/1s key-frame) /	
		Frame rate control (Variable GOP 4s-16s with frame rate control)	
		*Advanced and Frame rate control are only available with H.265.	
		Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off G.726 (ADPCM): 16 kbps / 32 kbps	
	Audio Compression		
	Addio compression	G.711 : 64 kbps	
		GAC-LC <sup>*7</sup> : 64 kbps / 96 kbps / 128 kbps  Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio transmission mode		
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3	
	Зарропеса полосон	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, SMMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP Device Certificate GlobalSign® pre-installed, User authentication,	
	Secure		
	N. (C' 1)	Host authentication, HTTPS, Data encryption, 802.1X Support	
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)	
	SDXC/SDHC/SD	H.265 / H.264 recording :	
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failur	
		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, 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/	Monitor Output	VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack	
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera	
	Audio input*8	ø3.5 mm stereo mini jack	
	For microphone input :	Recommended applicable microphone : Plug-in power type	
		(Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz))	
		Input impedance : Approx. 2 kΩ (unbalanced)	
		Supply voltage : 2.5 V ±0.5 V	
	For line input :	Input level : Approx. –10 dBV	
	Audio Output*8	ø3.5 mm stereo mini jack (monaural output)	
		Output impedance : Approx. 600 Ω (unbalanced)	
		Output level : -20 dBV	
	External I/O Terminals*8	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x'	
	,	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)	
		ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)	
General	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1	
	EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035	
	Power Source and	DC power supply 8 : DC12 V 900 mA, Approx. 10.8 W	
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 220 mA, Approx. 10.6 W (Class 0 device)	
	Ambient Operating	-40 °C to +60 °C (-40 °F to 140 °F)*9	
	Temperature	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})	
	Ambient Operating Humidity		
	Anti-Condensation System	Temish element + Heater + moisture absorption gel	
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian	
	Shock Resistance		
	Dimensions	IK10 (IEC 62262) Ø133 mm (W) x 133 mm (H) x 383 mm (D)	
	Dimensions		
	Mass (approx.)	{ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}	
	Mass (approx.) Finish	Approx. 2.4 kg {5.3 lbs.}  Main body: Aluminum die cast and resin, i-PRO white	
	FIIIISII	Outer fixing screws : Stainless steel (Corrosion-resistant treatment)	
		, ,	
		Front panel : Polycarbonate resin, Clear	

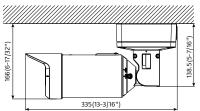
# **Appearance**

Unit: mm (inches)

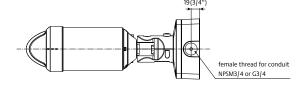








Mounted state after construction



 <sup>1</sup> Converted value
 2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
 3 When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90°" and "270°" settings are not available. When the 320x180 resolution is used, the "90°" and "270°" settings are not available.
 4 For information on the operation verification of the supported web browsers, refer to our support website

<sup>&</sup>lt;Control No.: C0132>.

<sup>\*5</sup> Used by super resolution techniques

Transmission for 4 streams can be individually set.
 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

<sup>\*8</sup> When using with these, WV-QCA501A cable is required.

\*9 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

# **AI Analytics applications**

http://i-pro.com/global/en/surveillance/products/i-pro-ai-application

#### Al Video Motion Detection (Al-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

#### **AI Privacy Guard**

To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.

#### **AI Face Detection**

Detects faces with high precision even in low-light, backlit, and mask-wearing environments.

#### Al People Detection

Extract the characteristics of human face / clothing and classify them into meaningful categories such as gender, age, and clothing color.

3rd party applications are also available.

http://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list

#### Al Vehicle Detection

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

#### Al Non mask Detection

Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

#### **AI Occupancy Detection**

Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

# **Optional Accessories**

#### ■ Mount Bracket

	POLE	CORNER
	1	1
combination	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)

## Cable



- \* WV-QCA500APK and WV-QCA501APK are 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

- iPad 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.
- 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
- 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.

