



The new Standard by i-PRO video surveillance

2MP(1080p) IR Indoor Dome Network Camera with AI Engine

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 AI 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 AI 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://security.panasonic.com/training_support/design_tools/iCT/)

Key i-PRO Spec.

Industry examples

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building
- 2MP (1080p) Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.018 to 0.025 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- ONVIF[®] Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.







Specifications

	ifications			
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color : 0.018 lx (30IRE, F1.3, 1/30s) *1		
White Balance		Color : 0.025 lx (50IRE, F1.3, 1/30s)		
		BW : 0.017 Ix (50IRE, F1.3, 1/30s)		
		BW : 0 Ix(50IRE, F1.3,1/30s with IR LED)		
		ATW1 / ATW2 / AWC		
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix, [30fps/15fps mode] 1/30 Fix to 1/10000 Fix		
		[50 fps Mode] 1/50 Fix to 1/10000 Fix, [25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix		
	Intelligent Auto	On / Off		
	Super Dynamic*2	On / Off, The level can be set in the range of 0 to 31.		
	Dynamic Range	Max.144 dB (Super Dynamic : On, Level 31)		
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.		
	Back light compensation /	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,		
	5	Maximum irradiation distance : 50 m {Approx. 164 ft} (30IRE) *1		
		35 m {Approx. 116 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 / Manual		
Lens	Optical zoom	3.1 x (Motorized zoom / Motorized Focus)		
Lens	Extra zoom	3.1 x (Motorized zoom / Motorized Focus) 3.1x - 9.3x (when resolution is 640 x 360)		
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}		
	Angular Field of View	[16 : 9 mode] Horizontal : 36° (TELE) – 115° (WIDE), Vertical : 20° (TELE) – 61° (WIDE)		
Maximum Aperture Ratio		[4 : 3 Mode] Horizontal: 28° (TELE) = 82° (WIDE), Vertical: 20° (TELE) = 61° (WIDE) 1 : 1.3 (WIDE) = 1 : 2.5 (TELE)		
DORI	Detect (25ppm / 8ppf)			
201		Wide: 24.5 m / 80.3 ft, Tele: 118.2 m / 387.7 ft Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft		
JON	Observe (62.5ppm / 19ppf)	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft		
JON	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf)	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft		
	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 11.8 m / 38.8 ft		
Adjusting	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) g Angle	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 11.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: 30 to +85°, Yaw : ±100°		
Adjusting Browser	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) g Angle Camera Control	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 11.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off		
Adjusting	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) g Angle	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 11.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX ON / Off Mic (Line) Input: Off		
Adjusting Browser	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 118.8 m/ 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness. AUX On / Off Olume adjustment: Low / Middle / High Audio Output: 0.n / Off Volume adjustment: Low / Middle / High		
Adjusting Browser	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Jangle Camera Control Audio GUI / Setup Menu Language	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 38.8 ft Horizontal: >240 to +120°, Vertical: 30 to +85°, Yaw: ±100° Brightness. AUX On / Off Mic (Line) Input: On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Nortuge		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ^{*4}	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 18.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Wideme adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome		
Adjusting Browser	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) 3 Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 118.6 m/ 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic Line: public: Old 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, Japanese Microsoft Edge, Firefox, Google Chrome 1054se=71 1008ase=71, R145 connector 1054se=71 1008ase=70		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF Resolution	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 18.8 m / 73.5 ft Horizontal: -240 to +120°, Vertical: 38.8 ft Horizontal: -240 to +120°, Vertical: 30 to 485°, Yaw: ±100° Brightness. AUX On / Off Olume adjustment: Low / Middle / High Audio Output: 10 ft Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T1 / 100Base-TX, RI45 connector [16:9 mode (60 fps mode)] ² , [16:9 mode (30 fps mode)], [16:9 mode]		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) 3 Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 38.8 ft Horizontal: >240 to +120°, Vertical: >30 to +85°, Yaw : ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base=T / 100Base=TX, RI45 Connector [16:9 mode (60 fps mode)] ² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ² , [16:9 mode (25 fps mode)]		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF Resolution	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 165.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 78.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Wolume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector [16:9 mode (60 fps mode)]? [16:9 mode (30 fps mode)], [16:9 mode (26 fps mode)] 192cb/1800, 1280x720, 640x360, 320x180 20x180 [20x180 [20x180		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF Resolution	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 18.8 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 18.8 m/ 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Micmosoft Middle / High Audio Output: 0.1 off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T7, ILVBas-CT8, NL45 connector 10Base-T8, NL45 connector 10Base-T9, NL45 connector [16:9 mode (60 fps mode)] ² , [16:9 mode (30 fps mode)], [16:9 mode (30 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1923mode (30 fps mode)], [4:3 mode (25 fps mode)] 1923mode (30 fps mode)], [4:3 mode (25 fps mode)]		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF Resolution	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 38.8 ft Horizontal: >240 to +120°, Vertical: 30 to +85°, Yaw: ±100° Brightness. AUX On / Off Mice (Line) Input: 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 108ase-T / 100Base-TX, RI45 connector [16:9 mode (60 fps mode]) ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [16:9 mode (30 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁴ Network IF Resolution	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 165.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 73.5 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Wide: 2.4 m / 73.5 ft Mic (Line) Iput: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector 16:9 mode (60 fps mode)] 72.6 fies mode (30 fps mode)], 16:9 mode (60 fps mode)] 72. (fies mode (30 fps mode)] 16:9 mode (50 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)]		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ^{*4} Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 18.8 m/ 75.5 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX 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, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T1, 100Base-T2, RI45 connector 16:9 mode (50 fps mode)]? [16:9 mode (30 fps mode)], 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1280x980, VGA, QVGA [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)] 204x1536'5, 1280x960, VGA, QVGA [4:3 mode)] 204x805, 320x180, VGA, QVGA		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser *4 Network IF Resolution H.265/ H.264/ JPEG (MIPEG) H.265/ Transmission Mode	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 ft Horizontal: -240 to +120°, Vertical: 30.8 ft Horizontal: -240 to +120°, Vertical: 30 to +85°, Yaw: ±100° Brightness. AUX On / Off Mice (Line) Input: On / Off Mic (Line) Input: Off Volume adjustment: Low / Middle / High Audio Output: Conjdt Conjector Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T, / 100Base-TX, RI45 connector 16:9 mode (60 fps mode)] ² , [16:9 mode (30 fps mode)], 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA 204x15a5 ³ , 1280x960, VGA, QVGA [4:3 mode(31 fps mode)], [4:3 mode (12.5 fps mode)] 204x15a5 ³ , 1280x960, VGA, QVGA 204x15a5 ³ , 1280x960, VGA, QVGA		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) 3 Angle Camera Control Audio GUI / Setup Menu Language Browser '4 Network IF Resolution H.265/ H.264/ JPEC (MIPEG) H.265/ Transmission Mode H.264' 6 Transmission Type	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 72.5 ft Horizontal: -240 to +120°, Vertical: -30.8 m / 72.5 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Wolume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Engish, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector I6:9 mode (60 fps mode)]? I6:9 mode (30 fps mode)] I6:9 mode (60 fps mode)]? I6:9 mode (30 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)] I4:3 mode (25 fps mode)] 1280x960, VGA, QVGA [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536*5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁷⁶ Transmission Type JPEG Image Quality	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 118.8 m/ 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness. AUX On / Off Volume adjustment: Low / Middle / High Audio Output: 0.1 Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 1058ase-T1 1008ase-TX, RI45 connector 105ase-T1 1025 fps mode]] 16:9 mode (60 fps mode)] ² , [16:9 mode (25 fps mode)] 1260x0800, 1280x720, 640x360, 320x180 [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)] 1280x960, VGA, QVGA [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps 0 10 steps 10		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) 3 Angle Camera Control Audio GUI / Setup Menu Language Browser '4 Network IF Resolution H.265/ H.264/ JPEC (MIPEG) H.265/ Transmission Mode H.264' 6 Transmission Type	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 4.9 m/ 8.0 ft, Tele: 18.8 ft Horizontal: -240 to Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mice (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T, IX UAS connector 10Base-T, Sub/45 connector 16:9 mode (50 fps mode)]^2, [16:9 mode (30 fps mode)], 16:9 mode (50 fps mode)] 7.6:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(130 fps mode)], [4:3 mode (12.5 fps mode)] 1280x960, VGA, QVGA [4:3 mode(130 fps mode)], [4:3 mode (12.5 fps mode)] 2048x153^5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): GOP		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁷⁶ Transmission Type JPEG Image Quality	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 72.5 ft Horizontal: -240 to +120°, Vertical: -30.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Wolume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Talian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector [16:9 mode (60 fps mode)]? [16:9 mode (30 fps mode)] [16:9 mode (30 fps mode)] 16:9 mode (50 fps mode)]? [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(15 fps mode)] [4:3 mode(15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536'5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off Low (Variable GOP 1s-68) / Mid (Variable GOP 4s-16s) / Off Low (Variable GOP 1s-68) / Mid (Variable GOP 4s-16s) /		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁷⁶ Transmission Type JPEG Image Quality	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 18.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Midele / 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, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T, IX UAS connector 10Base-T, StatAS connector 16:9 mode (50 fps mode)]^2, [16:9 mode (30 fps mode)], 16:3 mode (50 fps mode)] 74:3 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA 2048x1535'5, 1280x960, VGA, QVGA [4:3 mode(30 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1535'5, 1280x960, VGA, QVGA 2048x1535'5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures co		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁷⁶ Transmission Type JPEG Image Quality	Wide: 9.8 m/ 32.1 ft, Tele: 47.3 m/ 155.1 ft Wide: 4.9 m/ 16.1 ft, Tele: 23.6 m/ 77.5 ft Wide: 2.4 m/ 8.0 ft, Tele: 18.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mice (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T, ILVBAS-CONR, LAVE Connector 10Base-T, ILVBAS-CONRECTOR 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)] 1920x1080, 1280x720, 640x360, 320x180 14:3 mode(130 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VCA, QVGA [4:3 mode(13 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1535'5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off Low (Variable GOP 15-88) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/ls key-frame)/ Frame rate control (Var		
Adjusting Browser GUI	Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁷⁶ Transmission Type JPEG Image Quality	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.0 ft, Tele: 13.8 m / 72.5 ft Horizontal: -240 to +120°, Vertical: -30.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Wolume 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 1008ase-17, RI45 connector 106ase-17, 1008ase-17, RI45 connector 105ase-17, Io8:9 mode (30 fps mode)] ² , [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode(15 fps mode)], [4:3 mode (12:5 fps mode)] 1280x960, VGA, QVGA [4:3 mode(15 fps mode)], [4:3 mode (12:5 fps mode)] 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): GOP GOP (Group of pictures control): Off/ Low (Variable GOP Fa:s)/ Mid (Variable GOP 4s-16s)/ Advanced(Fixed GOP 60s w/ls key-frame)/		

Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps		
		G.711 : 64 kbps		
		AAC-LC*7 : 64 kbps / 96 kbps / 128 kbps		
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /		
		Interactive (Full duplex)		
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3		
		DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP*8, MQTT*8, 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 ^{*8} , MQTT ^{*8} , LLDP ^{*8}		
	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 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		
	Mahila Tanzinal Canaatikilita	iPad, iPhone, Android™ terminals		
	Mobile Terminal Compatibility			
	ONVIF [®] Profile Alarm Source	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,		
		Panasonic alarm protocol 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	ø3.5 mm stereo mini jack		
	For microphone input :			
		(Sensitivity of microphone : -48 dB±3 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		
	EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035		
	Power Source and	DC power supply : DC12 V 720 mA, Approx. 8.6 W		
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 180 mA, Approx. 8.7 W (Class 0 device)		
	Ambient Operating	-10 °C to +50 °C (14 °F to 122 °F)		
	Temperature	· · · · ·		
	Ambient Operating Humidity	10 to 90 % (no condensation)		
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}		
	5	Dome radius 40 mm {1-9/16 inches}		
	Mass (approx.)	470 q {1.04 lbs.}		
	Mass (approx.) Finish	Main body : ABS resin, i-PRO white / Dome cover : Acrylic resin, Smoke		
		I Wall DOUV, ADD IESIII, I-PRO WHITE / DOME COVER ; ACTVIC FESIN, SMOKE		

*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.

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 <Control No.: C0132-. 5 Used by super resolution techniques. 6 Transmission for 4 streams can be individually set. 7 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). 8 It will be adapted to the products produced after December 2021.

46±0.2(1-13/16")

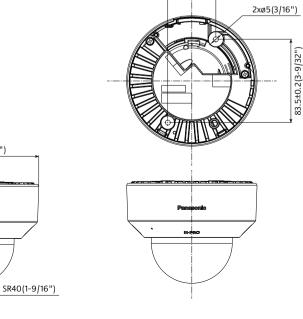
Appearance

2(3/32")

99 (3-29/32") 101(3-31/32")

53.8(2-1/8")

ø129.5(ø5-3/32")



Unit : mm (inches)

AI Video Motion Detection (AI-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

Optional Accessories

Mount Bracket / Other

1 2 1 1 Wall Mount Bracket Wall Mount Bracket Pole Mount Bracket Corner Mount Bracket Wv-QwL500-W Ww-QwL501-W PAPM4W Pole Mount Bracket Mount Bracket Ww-QwL501-W Www-QwL501-W Wall Mount Bracket Adapter Box Mount Bracket Ww-QsR501-W Wall Mount Bracket Ww-QiBS00-W Mount Bracket Ww-QsR501-W Wall Mount Bracket Wite) Image: Construction of the state of the	1 2 1 1 Wall Mount Bracket Wall Mount Bracket Pole Mount Bracket Corner Mount Bracket Wv-QwL500-W Wv-QwL501-W PAPM4W White) White) Adapter Box Mount Bracket Wv-QwL500-W Wall Mount Bracket Wv-QJB500-W Mount Bracket Wv-QwL500-W Wall Mount Bracket Wv-QJB500-W Wv-QSR501-W Wall Mount Bracket Wv-QwL500-W(White) Witte) Wite Wall Mount Bracket Wv-QwL500-W(White) Ww-QJB500-W White) Wall Mount Bracket Wv-QwL500-W(White) Witte) Wite Wite Wite Wite							
Wall Mount Bracket WV-QWL500-W (White) Wall Mount Bracket WV-QWL501-W (White) Pole Mount Bracket PAPM4W (White) Corner Mount Bracket PACA4W (White) Adapter Box WV-QJB500-W (White) Mount Bracket WV-QSR501-W (White) Wall Mount Bracket WV-QVL500-W(White) (+ WV-QJB500-W) Wall Mount Bracket WV-QJB500-W Image: Mount Bracket WV-QSR501-W (White) Wall Mount Bracket WV-QJB500-W) Wall Mount Bracket WV-QJB500-W) Wall Mount Bracket WV-QJB500-W)	Wall Mount Bracket WV-QWL500-W (White) Wall Mount Bracket WV-QWL501-W (White) Pole Mount Bracket PAPM4W (White) Corner Mount Bracket PACA4W (White) Adapter Box WV-QJB500-W (White) Mount Bracket WV-QSR501-W (White) Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W) Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W)		WALL		POLE	CORNER		
WV-QWL500-W (White) WV-QWL501-W (White) PAPM4W (White) PACA4W (White) Adapter Box WV-QJB500-W (White) Mount Bracket WV-QSR501-W (White) Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W) Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W)	WV-QWL500-W (White) WV-QWL501-W (White) PAPM4W (White) PACA4W (White) Adapter Box WV-QJB500-W (White) Mount Bracket WV-QSR501-W (White) Wall Mount Bracket WV-QWL500-W(White) (+ WV-QJB500-W) Wall Mount Bracket WV-QVL500-W(White) (+ WV-QJB500-W)		1	2	1	1		
WV-QJB500-W (White) WV-QSR501-W (White) WV-QVL500-W(White) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W) (+ WV-QJB500-W)	WV-QJB500-W (White) WV-QSR501-W (White) WV-QWL500-W(White) (+ WV-QJB500-W) + (+ WV-QJB500-W) + (+ WV-QJB500-W)	bination	WV-QWL500-W	WV-QWL501-W	PAPM4W	PACA4W		
		coml	WV-QJB500-W (White)	WV-QSR501-W	WV-QWL500-W(White)	WV-QWL500-W(White)		

	HAN	GING	CEILING		
	1	2	1	2	
combination	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W '1 (White)	Ceiling Mount Bracket WV-Q105A	Ceiling Mount Bracket (Embedded) WV-QEM100-W (White)	
	Mount Bracket WV-QSR501-W (White)	This bracket requires 1 ½" NPT pipe.			

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

Dome Cover



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

- All other trademarks identified herein are the property of their respective owners.

Panasonic

Panasonic Corporation

Important

 Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.

- Panasonic i-PRO Sensing Solutions 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.

AI Vehicle Detection

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

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

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.

Panasonic i-PRO Sensing Solutions Co., Ltd.

https://i-pro.com/corp/ https://i-pro.com/global/en/surveillance https://www.linkedin.com/company/i-pro-sensing-solutions-co-ltd/ (2A-319L)