

WV-S2236L

The new Standard by i-PRO video surveillance

Full HD Vandal Resistant 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.

- Full HD 1080p
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.007 to 0.009 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- Vandal Resistant
- Onvif Profile G / S / T

Industry examples

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building







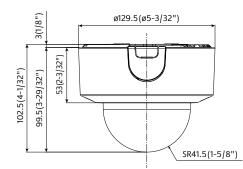
Specifications

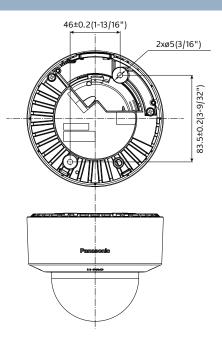
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color : 0.007 lx (30IRE, F1.3, 1/30s) *1		
		Color : 0.009 lx (50IRE, F1.3, 1/30s)		
		BW : 0.006 lx (50IRE, F1.3, 1/30s)		
		BW : 0 lx(50IRE, F1.3,1/30s with IR LED)		
	White Balance	ATW1 / ATW2 / AWC		
	Shutter Speed	[60 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.		
		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) /		
	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)			
	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	3.1x (Motorized zoom / Motorized Focus)		
	Extra zoom	3.1x - 9.3x (when resolution is 640 x 360)		
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}		
		[16:9 mode] Horizontal: 36° (TELE) - 114° (WIDE), Vertical: 20° (TELE) - 60° (WIDE)		
	Angular Field of View	[16 : 9 mode] Horizontal : 36° (TELE) – 114° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)		
	Angular Field of View	[16 : 9 mode] Horizontal : 36° (TELE) – 114° (WIDE), Vertical : 20° (TELE) – 60° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) – 82° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)		
	-	[4:3 mode] Horizontal : 27° (TELE) – 82° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)		
	Maximum Aperture Ratio	[4:3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 20° (TELE) - 60° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE)		
DORI	- Maximum Aperture Ratio Focus Range	[4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical: 20° (TELE) - 60° (WIDE) 1:1.3 (WIDE) - 1:2.5 (TELE) 0.3 m {11-13/16 inches} - ∞		
DORI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf)	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1:1.3 (WIDE) – 1:2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft		
DORI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf)	[4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical: 20° (TELE) - 60° (WIDE) 1:1.3 (WIDE) - 1:2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft		
DORI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf)	[4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical: 20° (TELE) - 60° (WIDE) 1:13 (WIDE) - 1:2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft		
	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	$\label{eq:constraint} \begin{array}{c} \textbf{(TELB)} - 82^\circ (WIDE), Vertical : 20^\circ (TELE) - 60^\circ (WIDE) \\ 1:1.3 (WIDE) - 1:2.5 (TELE) \\ 0.3 m (11^{-13})fo inches) - \infty \\ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft \\ Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft \\ Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft \\ Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft \\ \end{array}$		
Adjusting	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle	$\label{eq:constraints} \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
Adjustin <u>c</u> Browser	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control	[4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical: 20° (TELE) - 60° (WIDE) 1:1.3 (WIDE) - 1:2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw : ±100° Brightness, AUX On / Off		
Adjusting	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle			
Adjustin <u>c</u> Browser	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio	$\label{eq:2.1} \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
Adjustin <u>c</u> Browser	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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 : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
Adjustin <u>c</u> Browser	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio			
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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 : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125pm / 38pf) Recognize (125pm / 76pf) Jangle Camera Control Audio GUI / Setup Menu Language Browser '4			
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf)	$\label{eq:2.1} \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁷⁴ Network IF Resolution	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.4 m / 8.2 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: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 100Base-TX, RI45 connector [16:9 mode (60 fps mode]] ² , [16:9 mode (30 fps mode]],		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁷⁴ Network IF Resolution	$\label{eq:constraints} \begin{array}{l} \textbf{(14:3 mode]} \mbox{Horizontal:} 27^{\circ} (TELE) - 82^{\circ} (WIDE), Vertical:: 20^{\circ} (TELE) - 60^{\circ} (WIDE) \\ 1:1.3 (WIDE) - 1:2.5 (TELE) \\ 0.3 m (1^{-13})fo inches) - \infty \\ \hline \end{tabular} \\ Wide:: 24.9 m / 81.8 ft, Tele:: 118.2 m / 387.7 ft \\ \hline \end{tabular} \\ Wide:: 20.m / 18.8 ft, Tele:: 118.2 m / 387.7 ft \\ \hline \end{tabular} \\ Wide:: 5.0 m / 16.4 ft, Tele:: 23.6 m / 77.5 ft \\ \hline \end{tabular} \\ Wide:: 2.5 m / 8.2 ft, Tele:: 11.8 m / 38.8 ft \\ \hline \end{tabular} \\ Horizontal:: -240 to +120^{\circ}, Vertical:: -30 to +85^{\circ}, Yaw: \pm 100^{\circ} \\ \end{tabular} \\ Brightness, AUX On / Off \\ \end{tabular} \\ Mic (Line) \end{tabular} \end{tabular} \\ \end{tabular} \\ \end{tabular} \\ \end{tabular} \\ \end{tabular} \end{tabular} \\ \end{tabular} \\ \end{tabular} \\ \end{tabular} \end{tabular} \\ \end{tabular} \end{tabular} \\ tab$		
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Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁷⁴ Network IF Resolution	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 18.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 23.6 m / 77.5 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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: 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 Gliess mode (60 fps mode)? _ [16:9 mode (30 fps mode)], [16:9 mode (60 fps mode)] ² , [16:9 mode (25 fps mode)] 1920x1080, U280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser ⁷⁴ Network IF Resolution	$\label{eq:constraints} \begin{array}{l} \label{eq:constraints} \left\{ 1 + 3 \mbox{ mode} \right\} \mbox{ Horizontal : 27 (TELE) - 60° (WIDE) } \\ 1: 1.3 (WIDE) - 1: 2.5 (TELE) \\ 0.3 m (11-31/6 \mbox{ inchest}) - \infty \\ \hline \end{tabular} \\ \hline tabular$		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250ppm / 76ppf) Angle Camera Control Audio GUI / Setup Menu Language Browser '4 Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	[4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical: 20° (TELE) - 60° (WIDE) 1:1.3 (WIDE) - 1: 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 5.0 m / 8.2 ft, Tele: 11.8 m / 38.8 ft Horizontal: -240 to +120°, Vertical: -30 to +85°, Yaw : ±100° 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, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T1 / 1008ase-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)] 1280x960, VGA, QVGA [4:3 mode (10 fps mode)], [4:3 mode (12.5 fps mode)] 204x8(356's, 1280x960, VGA, QVGA		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125pm / 38pf) Identify (250ppm / 76ppf) J Angle Camera Control Audio GUI / Setup Menu Language Browser ¹⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-13)16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 18.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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: 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 Output : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off / Volume adjustment : Low / Middle / High 2048x4536 ⁺ : 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) 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) H.265/ H.264/ JPEG (MJPEG)	$ \begin{bmatrix} 4:3 mode] \mbox{Horizontal:} 27^{\circ} (TELE) - 82^{\circ} (WIDE], \mbox{Vertical:} 20^{\circ} (TELE) - 60^{\circ} (WIDE] \\ 1:1.3 (WIDE) - 1:2.5 (TELE) \\ 0.3 m (11-31/6 inches) - \inftyWide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ftWide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ftWide: 2.5 m / 8.2 ft, Tele: 12.8 m / 38.8 ftHorizontal: -240 to +120^{\circ}, \mbox{Vertical:} -30 to +85^{\circ}, \mbox{Yaw:} \pm100^{\circ}$ Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108aser 1 / 100Base TX, RI45 connector [16:9 mode (50 fps mode)] ² , [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (130 fps mode)], [4:3 mode (25 fps mode)] 120As960, 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	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1:1.3 (WIDE) – 1:2.5 (TELE) 0.3 m (11-13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Wic (Line) Input: 10n / 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, Firefax, Guogle Chrome 108ase-T / 1008ase-TX, RJ45 connector [16:9 mode (60 fps mode)] ² , [16:9 mode (25 fps mode)] 1280x960, V2A, 2VGA [4:3 mode (15 fps mode)], [4:3 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 10 steps		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) 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) H.265/ H.264/ JPEG (MJPEG)	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11: 13/16 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 18.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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: 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 [16:9 mode (60 fp smode)] ² , [16:9 mode (30 fps mode)], [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)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 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):		
Adjustin <u>c</u> Browser	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-31/6 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 2.5 m / 8.2 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: 0n / Off Volume adjustment: Low / Middle / High Audio Output : 0n / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108aser J / 100Base-TX, RI45 connector [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 [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536°, 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)/		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27° (TELE) - 82° (WDE), Vertical: 20° (TELE) - 60° (WDE) 1: 1.3 (WIDE) - 1: 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 18.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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: 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 [16:9 mode (60 fp smode)] ² , [16:9 mode (30 fp smode)], [16:9 mode (50 fp smode)] ² , [16:9 mode (30 fp smode)], [16:9 mode (50 fp smode)] ² , [16:9 mode (30 fp smode)], [1280x960, VGA, QVGA [4:3 mode (15 fp smode)], [4:3 mode (12.5 fp smode)] 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):		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-31/6 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 2.5 m / 8.2 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: 0n / Off Volume adjustment : Low / Middle / High Audio Output : 0n / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portugese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108aser / 100Baser X, RI45 connector [16:9 mode (50 fps mode)] ² , [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (150 fps mode)], [4:3 mode (25 fps mode)] 120x8960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Lincast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off Low (Variable COP 1s-8s)/ Mid (Variable GOP 4s-16s)/		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 60° (WIDE) 1: 1.3 (WIDE) – 1: 2.5 (TELE) 0.3 m (11-31/6 inches) – ∞ Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 5.0 m / 16.4 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: 0n / Off Volume adjustment: Low / Middle / High Audio Output : 0n / 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)]? [16:9 mode (30 fps mode)], 116:9 mode (50 fps mode)]? 2 [16:9 mode (30 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 10 steps GOP (Group of pictures control): Off/ Low (Variable GOP 15-85)/ Mid (Variable GOP 4s-16s)/ Advanced(Fixed GOP 6ts w/1s key-frame)/		
Adjusting Browser GUI	Maximum Aperture Ratio Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (250pm / 76ppf) Identify (25	[4:3 mode] Horizontal: 27" (TELE) - 82" (WIDE), Vertical: 20" (TELE) - 60° (WIDE 1:1.3 (WIDE) - 1: 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 24.9 m / 81.8 ft, Tele: 17.2 m / 387.7 ft Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft Wide: 2.5 m / 8.2 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 : 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 108aser / 1008ase TX, R45 connector [16:9 mode (50 fps mode)] ⁷ 2, [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷ 2, [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 204sx153 ⁶ ; 1280x960, VCA, QVCA 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 15-83)/ Mid (Variable GOP 45-165)/ Advanced(Fixed GOP 50s w/15 key-frame)/ Frame rate control (Variable GOP 45-165 with frame rate control)		

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 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			
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)			
	SDXC/SDHC/SD	H.265 / H.264 recording :			
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Available SDAC(SDHC/SD Memory Card :			
	wennory card (option)				
		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 Tanainal Canaatibilita				
	Mobile Terminal Compatibility	Pad, iPhone, Android™ terminals			
Alarm	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,			
		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 :	Recommended applicable microphone : Plug-in power type			
		(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 :	Input level : Approx. –10 dBV			
	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				
	Shock Resistance	IK10 (IEC 62262)			
	Ambient Operating Humidity	10 to 90 % (no condensation)			
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}			
		Dome radius 41.5 mm {1-5/8 inches}			
	Mass (approx.)	570 g {1.26 lbs.}			
	Finish	Main body : PC resin, i-PRO white / Dome cover : Polycarbonate resin, Clear			
	ed value	,			

¹¹ Converted value
¹² When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
¹³ 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.
¹⁴ For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.
¹⁵ Used by super resolution techniques.
¹⁶ Transmission for 4 streams can be individually set.
¹⁷ When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

Appearance





Unit : mm (inches)

https://security.panasonic.com/products_technology/products/i-pro_ai_application/

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)

Al 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.

AI 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.

https://security.panasonic.com/i-pro-application-platform/application-list/

Optional Accessories

AI Vehicle Detection

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

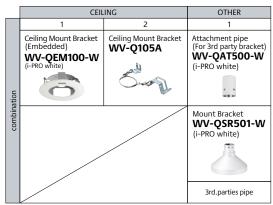
AI Non mask Detection

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.

N	Mount Bracket / Other									
	WALL		POLE	CORNER	HANGING					
combination	1	2	1	1	1	2				
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W '1 (i-PRO white)				
	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W) +	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W) + C	Mount Bracket WV-QSR501-W (i-PRO white)	3rd.parties pipe				



Dome Cover



Trademarks and registered trademarks

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- Android is a trademark of Google LLC.

- ONVIF is trademarks or registered trademarks 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.

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

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.

Panasonic

Panasonic Corporation

Panasonic i-PRO Sensing Solutions Co., Ltd.

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