Panasonic BUSINESS

WV-X1551LN

5MP Outdoor Bullet Network Camera with AI engine

WV-X1551LN has onboard AI functionality. AI-based high precision analysis helps surveillance operations and crime prevention operations more efficiently, whereas these operations previously required dedicated manpower.

There are 3 Al functions available through the camera: detecting suspicious changes in captured scenes, optimizing the image settings of the camera (based on captured scene analysis) for better image usability, and optimizing video compression through captured scenes to save bandwidth at 50%* lower than existing cameras while maintaining image quality.

*Compared to Smart Coding ON with H.265

Optimization of image quality and data compression using AI engine

- Al detects, identifies and determines movement.
- Al determines human faces and captures them in the most visible state.
- Al determines moving objects, identifies where there is no movement, and performs efficient data compression.

3rd party relationship

- To enable 3rd party companies to develop their applications using SDK.
- Users can freely combine applications and introduce analysis software that is the best match for their requirements.

Easy installation

- Al analysis automatically applies optimal settings, allowing you to capture high-quality images effortlessly.
- Connect the network cable to the camera body simply by opening a part of the packaging, saving you time and working space.

Key Features

- 5-megapixel images up to 30fps
- Al intelligent Auto
- Color night vision (0.0044 to 0.07 lx)
- H.265 Smart Coding
- ClearSight Coating
- FIPS140-2 CAVP compliant
 *Using encryption module standardized by FIPS publication 140-2

• Onvif Profile G / S / T

Industry examples

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building



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Camera	Image Sensor	1/2.8 type CMOS image sensor
	Minimum Illumination	Color: 0.07 lx, BW: 0.04 lx
		(50IRE, F1.3, Maximum shutter : Off (1/30s), AGC : 11)
		BW : 0 lx
		(50IRE, F1.3, Maximum shutter: Off (1/30 s), AGC: 11, when the IR LED is lit
		Color: 0.0044 lx, BW: 0.003 lx
		(50IRE, F1.3, Maximum shutter : max. 16/30s, AGC : 11) *1
	White Balance	ATW1/ATW2/AWC
	Shutter Speed	[30fps mode] 1/30 Fix to 1/10000 Fix [25fps mode] 1/25 Fix to 1/10000 Fix
İ	Al Intelligent Auto	On / Off
	Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
	Dynamic Range	Max.132 dB (Super Dynamic : On, Level : 30 or more, 15fps *2)
1	Adaptive Black Stretch	The level can be set in the range of 0 to 255.
	Back light compensation /	BLC (Back light compensation) / HLC (High light compensation) / Off
	High light compensation	The level can be set in the range of 0 to 31.
	riigiriigiit compensation	(only when Super dynamic / Al Intelligent Auto : Off)
	Fog compensation	On / Off, The level can be set in the range of 0 to 8
	Fog compensation	
		(only when Al Intelligent auto / auto contrast adjust : Off)
	Maximum gain	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 : 40 m {Approx. 131 ft}
	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 area available
	Privacy Zone	On / Off, Up to 8 zones available
	Image rotation*3 *4	0 ° (Off) / 90 ° / 180 ° (Upside-down) / 270 °
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)
Lens	Optical zoom	3.1x (Motorized zoom / Motorized focus)
	Extra optical zoom	3.1x - 9.3x (when resolution is 640x360)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	2.9 mm – 9 mm {1/8 inches – 11/32 inches}
	Maximum Aperture Ratio	1 : 1.3 (WIDE) – 1 : 2.5(TELE)
		, , , , ,
	Focus range	0.3 m {11-13/16 inches} - ∞
	Angular Field of View	[16:9 mode] *[4:3 mode] is not supported.
		Horizontal: 34° (TELE) – 106° (WIDE), Vertical: 19° (TELE) – 57° (WIDE)
DORI *5	Detect (25ppm / 8ft)	Wide: 46.3 m / 151.90 ft, Tele: 200.96 m / 659.32 ft
	Observe (62.5ppm / 19ft)	Wide: 18.52 m / 60.76 ft, Tele: 80.38 m / 263.72 ft
	Recognize (125ppm / 38ft)	Wide: 9.26 m / 30.38 ft, Tele: 40.19 m / 131.86 ft
	Identify (250ppm / 76ft)	Wide: 4.63 m / 15.19 ft, Tele: 20.1 m / 65.93 ft
Adjusting	Ceiling mounting	Horizontal: ±180 ° (Adjust by horizontal (PAN) angle)
Angle		Vertical : 0 ° to 100 ° (Adjust by vertical (TILT) angle)
		Yaw : -190 ° to +100 ° (Adjust by azimuth (YAW) angle)
	Wall mounting	Horizontal: ±100 ° (Adjust by vertical (TILT) angle)*
	, and the second	Vertical : ±100 ° (Adjust by vertical (TILT) angle)*
		Yaw : -190 ° to +100 ° (Adjust by azimuth (YAW) angle)
		*You can change between horizontal and vertical angels by adjusting
		the horizontal (PAN) angle.
Browser	Camera Control	Brightness, AUX On / Off
GUI	Audio	
GUI	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution*6	[16:9 mode] *[4:3 mode] is not supported.
	H.265/ H.264/JPEG (MJPEG)	3072×1728 ¹⁷ , 2560×1440, 1920×1080, 1280×720, 640×360, 320×180
	H.265/ Transmission Mode	

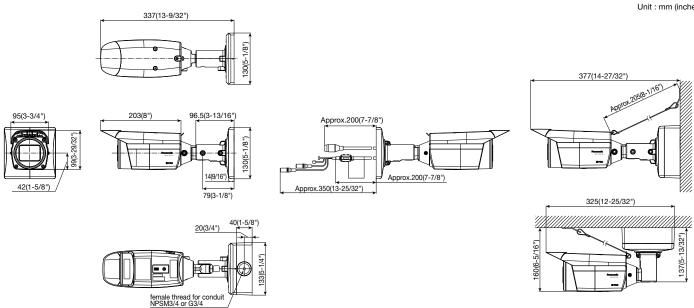
- *1 Converted value
 *2 The frame rate is limited to 15 fps for level 30 or higher. The dynamic range is 108 dB typ / 30 fps for level 29 or lower.
 *3 90° and 270° are invalid only in the 320×180 resolution.
 *4 Following the setting angle of the rotated image, the analog output of the MONITOR OUT terminal rotates.
 *5 Maximum distance at which a camera's tele and wide lens can meet DORI specifications. This value does not indicate the performance of the camera. Calculations made with the camera installed horizontally at resolution of 3072 x 1728.
- 16 H.265/1.264 can be selected for each stream.
 17 Camera uses Super resolution techniques. Super resolution techniques are techniques that enhance the resolution of an image.
 18 Transmission for 4 streams can be individually set.

Network	Smart Coding	Smart Facial Coding: On (Smart Facial Coding*) / On (Auto VIQS) / Off
		*Smart Facial Coding is only available with Stream(1).
		GOP (Group of pictures) control :
		On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off
		*On (Frame rate control) and On (Advanced) are only available with H.265.
	Audio Compression	G.726 (ADPCM): 16 kbps / 32 kbps , G.711: 64 kbps
		AAC-LC'9 : 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, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UPnP, IGMP, ICMP,
		ARP, IEEE 802.1X, DiffServ
	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 :
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
	ONVIF Profile	G/S/T
Alarm	Alarm Source	3 terminals input, VMD alarm, SCD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification, Indication on browser, FTP image transfer,
		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 *10	
		Ø3.5 mm stereo mini jack (Audio output is monaurai.)
	Audio Output 19	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance : Approx. 600 Ω (unbalanced)
	Addio Odiput 19	Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	Output impedance : Approx. 600 Ω (unbalanced) Output level : –20 dBV
		Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1),
General	External I/O Terminals	Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV 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	External I/O Terminals Safety	Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
General	External I/O Terminals	Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV 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) UL (UL60950-1), C-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
General	External I/O Terminals Safety EMC Power Source and	Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM In {I.Alarm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM In {I.Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W
General	External I/O Terminals Safety EMC Power Source and Power Consumption	Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply: DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device: DC48 V 240 mA/Approx. 11.5 W (Class 0 device)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating	Output impedance: Approx. 600 Ω (unbalanced) Output level: ~20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply: DC 12 V 930 mA/Approx. 11.2 W PCE (IEEE802.3af compliant) Device: DC48 V 240 mA/Approx. 11.5 W (Class 0 device) -40 °C to +60 °C (-40 °F to +140 °F)*11
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature	Output impedance : Approx. 600Ω (unbalanced) Output impedance : Approx. 600Ω (unbalanced) Output level : -20 dBV 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) UL (ULB0950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICE5003 ClassA, EN55032 ClassB, EN55032 Depression of the Company o
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity	Output impedance : Approx. 600Ω (unbalanced) Output level : \sim 20 dBV ALARM IN 1(Alarm input 1/Black & white input/ Auto time adjustment input) (x1), ALARM in 14 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), \sim 10 UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) \sim 40 °C to \sim 46 °C (\sim 40 °F to \sim 140 °F) 11 (Power Or nange : \sim 30 °C to \sim 60 °C (\sim 40 °C to \sim 60 °C (\sim 20 °F to \sim 140 °F) 11 to 100 % (no condensation)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device	Output impedance : Approx. 600Ω (unbalanced) Output level : -20 dBV 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) UL (UL60950-1), C-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) $-40 ^{\circ}$ C to $-60 ^{\circ}$ C ($-40 ^{\circ}$ T to $+140 ^{\circ}$ F) $^{\circ}$ I (Power On range : $-30 ^{\circ}$ C to $+60 ^{\circ}$ C ($-22 ^{\circ}$ F to $+140 ^{\circ}$ F)) 10 to $100 ^{\circ}$ (no condensation) Rosahl element
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance	Output impedance : Approx. 600Ω (unbalanced) Output impedance : Approx. 600Ω (unbalanced) Output impediance : Approx. 600Ω (unbalanced) 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICE50030 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.34 compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) 40 °C to -60 °C (-40 °F to +140 °F) i (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Rosalh element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance	Output impedance : Approx. 600 Ω (unbalanced) Output level : ~20 dBV ALARM IN 14/lam input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM in 14/lam input 2/ ALARM OUT) (x1), ALARM in 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802 3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) -40 °C to +60 °C (-40 °F to +140 °F)¹¹¹ (Power On range : ~30 °C to +60 °C (~22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IK10 (IEC 62262)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	Output impedance: Approx. 600 Ω (unbalanced) Output level: ~20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply: DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device: DC48 V 240 mA/Approx. 11.5 W (Class 0 device) -40 °C to +60 °C (-40 °F to +140 °F)*11 (Power On range: ~30 °C to +60 °C (~22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IH10 (IEC 62262) Up to 40 m/s {approx. 89 mph}
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance	Output impedance : Approx. 600 Ω (unbalanced) Output impedance : Approx. 600 Ω (unbalanced) Output level : ~20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICE5003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.34 compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) 40 °C to -60 °C (-40 °F to +140 °F)1 (Power On range : ~30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation) Rosalh element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to 40 m/s (approx. 89 mph) With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	Output impedance : Approx. 600 Ω (unbalanced) Output level : ~20 dBV ALARM IN (1/4larm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM IN 1/4larm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) -40 °C to +60 °C (-40 °F to +140 °F)**1 (Power On range : ~30 °C to +60 °C (~22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IK10 (IEC 62262) Up to 40 m/s (approx. 89 mph) With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) (5-1/4 inches(W) x 5-1/4 inches(H) x 14-27/32 inches(L))
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	Output impedance : Approx. 600Ω (unbalanced) Output level : ~20 dBV ALARM IN 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM in 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM in 12 (Alarm input 2/ ALARM OUT) (x1), ALARM in 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) ~40 °C to +60 °C (~40 °F to +140 °F) 11 (Power On range : -30 °C to +60 °C (~22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to 40 m/s (approx. 89 mph) With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) (5-1/4 inches(W) x 5-1/4 inches(H) x 142-7/32 inches(L)) Without adapter box : 130 mm (W) x 130 mm (H) x 337 mm (L)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Dimensions	Output impedance : Approx. 600 Ω (unbalanced) Output impedance : Approx. 600 Ω (unbalanced) Output impedance : Approx. 600 Ω (unbalanced) 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICE5003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.34 compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) 40 °C to -460 °C (-40 °F to +140 °F)1 (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) 10 to 100 % (no condensation) Rosalh element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to 40 m/s (approx. 89 mph) With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) (5-1/8 inches(W) x 5-1/4 inches(H) x 13-9/32 inches(L)) Without adapter box : 130 mm (W) x 130 mm (H) x 337 mm (L) (5-1/8 inches(W) x 5-1/6 inches(H) x 13-9/32 inches(L))
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	Output impedance : Approx. 600 Ω (unbalanced) Output level : ~20 dBV ALARM In (JAlarm input 1/ Black & white input/ Auto time adjustment input) (x1), ALARM In (JAlarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PoE (IEEE802.34f compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) -40 °C to +60 °C (-40 °F to +140 °F)¹¹¹ 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to 40 m/s [approx. 89 mph] With adapter box : 133 mm (W) x 133 mm (H) x 337 mm (L) (5-1/4 inches(W) x 5-1/4 inches(H) x 13-9/32 inches(L)) Without adapter box : 130 mm (W) x 130 mm (H) x 337 mm (L) (5-1/8 inches(W) x 5-1/8 inches(H) x 13-9/32 inches(L)) With adapter box : 2.2 kg (4.85 lbs)
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	Output impedance : Approx. 600Ω (unbalanced) Output level : ~20 dBV ALARM IN 14/lam input 17/lack & white input/ Auto time adjustment input) (x1), ALARM IN 14/lam input 17/lack & 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PcE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) ~40 °C to +60 °C (~40 °F to +140 °F) 11 (Power On range : $-30 °C$ to +60 °C (~22 °F to +140 °F) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to $40 °N$ (approx. $89 °N$) With adapter box : $133 °N$ m(W) x $133 °N$ m(H) x $377 °N$ m(L) (5-1/4 inches(M) x 5 -1/6 inches(H) x 14 -27/32 inches(L)) Without adapter box : $21 °N$ inches(H) x $13 °N$ m(H) x $337 °N$ m(L) (5-1/6 inches(W) x 5 -1/6 inches(H) x $13 °N$ inches(L)) Without adapter box : $21 °N$ kg $3.75 °N$ by Without adapter box : $21 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Dimensions	Output impedance : Approx. 600 Ω (unbalanced) Output impedance : Approx. 600 Ω (unbalanced) Output level : ~20 dBV 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICE5003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W Pot (IEE802.34 compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) 40 °C to -46 °C (-40 °F to +140 °F)1 (Power On range : ~30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation) Rosalh element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to 40 m/s (approx. 89 mph) With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) (5-1/8 inches(W) x 5-1/8 inches(H) x 13-9/32 inches(L)) With adapter box : 2.2 kg (4.85 lbs) Without adapter box : 1.7 kg (3.75 lbs) Main body : Aluminum die cast and resin, i-PRO white
General	External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	Output impedance : Approx. 600Ω (unbalanced) Output level : ~20 dBV ALARM IN 14/lam input 17/lack & white input/ Auto time adjustment input) (x1), ALARM IN 14/lam input 17/lack & 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC 12 V 930 mA/Approx. 11.2 W PcE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device) ~40 °C to +60 °C (~40 °F to +140 °F) 11 (Power On range : $-30 °C$ to +60 °C (~22 °F to +140 °F) 10 to 100 % (no condensation) Rosahl element IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant IR10 (IEC 62262) Up to $40 °N$ (approx. $89 °N$) With adapter box : $133 °N$ m(W) x $133 °N$ m(H) x $377 °N$ m(L) (5-1/4 inches(M) x 5 -1/6 inches(H) x 14 -27/32 inches(L)) Without adapter box : $21 °N$ inches(H) x $13 °N$ m(H) x $337 °N$ m(L) (5-1/6 inches(W) x 5 -1/6 inches(H) x $13 °N$ inches(L)) Without adapter box : $21 °N$ kg $3.75 °N$ by Without adapter box : $21 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by Without adapter box : $1.7 °N$ kg $3.75 °N$ by

- *9 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity).
 *10 The audio output can be switched to the monitor output. Refer to the Operating Instructions on the our support
- web site for descriptions of how to switch the output. *11 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F).

Appearance

Unit: mm (inches)



Analytics Applications (Optional Software)

Extension Software WV-XAE200W

Al differentiates between vehicles, motorcycles, bicycles, and people. It further detects and sends warning notifications when they enter a specified area.

Al Video Motion Detection



 It is possible to issue an alarm when a moving object enters a specified area



 It is possible to issue an alarm when a moving object enters a specified area and stays there for a specified amount of time.



 It is possible to issue an alarm when a moving object enters a specified area and moves in the specified direction.



 It is possible to issue an alarm when an object moving in the specified direction crosses a specified threshold.

Extension Software WV-XAE201W

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.

Al Privacy Guard



Original image



al image Processed image



Original image



Processed image

Optional Accessories

Mount Bracket

Ceiling Mount Bracket
WV-QCL100-W
(i-PRO white)

*For indoor installation only



Pole Mount Bracket
WV-QPL500-W
(i-PRO white)



Corner Mount Bracket
WV-QCN500-W
(i-PRO white)

Brackets are available in four colors, Fine silver, Light gray, Gray and i-PRO white. It is possible to use them in different color combinations.

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Important

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

 Panasonic cannot be responsible for the performance of the network and/or
- other manufacturers' products used on the network.

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