

VV-X2571LN

4K Vandal Resistant Outdoor Dome Network Camera with Al engine

WV-X2571LN 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 AI 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 OFF with H.265

Optimization of image quality and data compression using AI

- AI detects, identifies and determines movement,
- AI determines human faces and captures them in the most visible state.
- AI 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

- AI 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

- 4K (3,840 x 2,160) up to 30fps
- Al Intelligent Auto
- Color night vision (0.006 to 0.09 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

- Safe Cities
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
- Retail / Logistics / Education / Hospital / Building

with Base Bracket





Specifications

Camera	Image Sensor	1/1.8 type CMOS image sensor
	Minimum Illumination	Color : 0.09 lx, BW : 0.05 lx
		(F1.5, Maximum shutter : Off (1/30s), AGC : 11)
		BW :0 lx
		(F1.5, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit
		Color: 0.006 lx. BW: 0.003 lx
		(F1.5, 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
	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 : 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) / Off
	High light compensation	The level can be set in the range of 0 to 31.
		(only when Super dynamic / Al Intelligent Auto : Off)
	Fog compensation	On / Off, The level can be set in the range of 0 to 8
		(only when AI 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*2 *3	0 ° (Off) / 90 °/ 180 ° (Upside-down)/ 270 °
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)
Lens	Optical zoom	2.0x (Motorized zoom / Motorized focus)
	Extra optical zoom	6.0x (when resolution is 1280x720)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	4.3 mm - 8.6 mm {5/32 inches - 11/32 inches}
	Maximum Aperture Ratio	1 : 1.5 (WIDE) – 1 : 2.4 (TELE)
	Focus range	1 m {39-3/8 inches} – ∞
	Angular Field of View	[16:9 mode] *[4:3 mode] is not supported.
		Horizontal : 52° (TELE) - 101° (WIDE), Vertical : 29° (TELE) - 55° (WIDE)
DORI *4	Detect (25ppm / 8ft)	Wide: 63.31 m / 207.71 ft, Tele: 157.46 m / 516.61 ft
	Observe (62.5ppm / 19ft)	Wide: 25.32 m / 83.08 ft, Tele: 62.99 m / 206.64 ft
	Recognize (125ppm / 38ft)	Wide: 12.66 m / 41.54 ft, Tele: 31.49 m / 103.32 ft
	Identify (250ppm / 76ft)	Wide: 6.33 m / 20.77 ft, Tele: 15.75 m / 51.66 ft
Adjusting	Angle	Horizontal (PAN) angle : ±180°, Vertical (TILT) angle : -30 to +85°,
		Azimuth (YAW) angle : ±100°
Browser	Camera Control	Brightness, AUX On / Off
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	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution *5	[16:9 mode] *[4:3 mode] is not supported.
	H.265/ H.264/ JPEG (MJPEG)	3840×2160, 2560×1440, 1920×1080, 1280×720, 640×360, 320×180
		Constant bit rate / VBR / Frame rate / Best effort
	H.264*6 Transmission Type	Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast
	JPEG Image Quality	
		10 steps
	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 :
		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

letwork	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, FTP, SMTP, DNS, NTP, SNMP,
	Supported Protocol	DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
		SMTP, DHCP, DNS, DDNS, 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
larm	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
nput/	Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini 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 *8	ø3.5 mm stereo mini jack (Audio output is monaural.)
		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)
ieneral	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and	DC power supply : DC 12 V 980 mA/Approx. 11.8 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 260 mA/ Approx. 12.5 W (Class 0 device
	Ambient Operating	PoE (IEEE802.3af compliant) Device : DC48 V 260 mA/ Approx. 12.5 W (Class 0 device -40 °C to +60 °C (-40 °F to +140 °F)*9
		-40 °C to +60 °C (-40 °F to +140 °F)*9
	Ambient Operating Temperature	
	Ambient Operating	-40 °C to +60 °C (-40 °F to +140 °F)'9 (Power On range : -30 °C to +60 °C {-22 °F to +140 °F})
	Ambient Operating Temperature Ambient Operating Humidity	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (Power On range : -30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (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
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (Power On range : -30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahl element IP66 (EC60529), Type 4X(UL50E), NEMA 4X compliant 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (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 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 80 mph)
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (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 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 89 mph) When using base bracket : o164 mm × 139 mm (H) (66-15/32 inches × 5-15/32 inches (H))
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (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 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 80 mph)
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	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	-40 °C to +60 °C (-40 °F to +140 °F)' ⁹ (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 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 mv/s (approx. 89 mph) When using base bracket : o164 mm × 139 mm (H) (e6-15/32 inches × 5-15/32 inches (H)) Dome radius 42 mm (1-21/32 inches) When using attachment plate only: o164 mm × 103 mm (H) (e6-1/16 inches × 4-1/16 inches (H)) Dome radius 42 mm {1-21/32 inches}
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	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	-40 °C to +60 °C (-40 °F to +140 °F)° (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 50./ (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 89 mph) When using base bracket : o164 mm × 139 mm (H) (66-15/32 inches × 5-15/32 inches (H)) Dome radius 42 mm (1-21/32 inches) When using attachment plate only : o154 mm × 100 mm (H) (66-1/16 inches × 4-1/16 inches (H)) Dome radius 42 mm (1-21/32 inches) When using base bracket : Approx. 1.6 kg (3.53 lbs) When using attachment plate only : 154 mprox. 1.2 kg (2.65 lbs)
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	-40 °C to +60 °C (-40 °F to +140 °F)'9 (Power On range : -30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation) Rosahi element IP66 (IEC60529), Type 4X(UL50E), NEMA 4X compliant 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 88 mph) When using base bracket : o164 mm × 139 mm (H) (of-15/32 inches × 5-15/32 inches (H)) Dome radius 42 mm {1-21/32 inches} When using base bracket : Approx. 1.6 kg (3.53 lbs) When using base bracket : Approx. 1.6 kg (3.53 lbs) When using tatchment plate only : Approx. 1.2 kg (2.65 lbs) Main body : Aluminum die cast, I-PRO white
	Ambient Operating Temperature Ambient Operating Humidity Dehumidification Device Water and Dust Resistance Shock Resistance Wind Resistance Dimensions	-40 °C to +60 °C (-40 °F to +140 °F)° (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 50./ (IEC 60068-2-75 compliant), IK10 (IEC 62262) Up to 40 m/s (approx. 89 mph) When using base bracket : o164 mm × 139 mm (H) (66-15/32 inches × 5-15/32 inches (H)) Dome radius 42 mm (1-21/32 inches) When using attachment plate only : o154 mm × 100 mm (H) (66-1/16 inches × 4-1/16 inches (H)) Dome radius 42 mm (1-21/32 inches) When using base bracket : Approx. 1.6 kg (3.53 lbs) When using attachment plate only : 154 mprox. 1.2 kg (2.65 lbs)

*4 the performance of the camera. Calculations made with the camera installed horizontally at resolution of 3840×2160.

the performance of the califieral. Valculations made with the califiera installed inductionally at recording to 000012 rooms 5 H.265/H.264 can be selected for each stream. 6 Transmission for 4 streams can be individually set. 7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). 8 This camera is not equipped with the function to change the audio output to the monitor output. 9 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

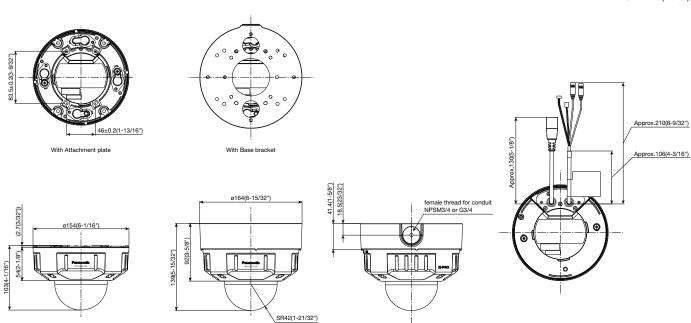
*3 Following the setting angle of the rotated image, the analog output of the MONITOR OUT terminal rotates.

Appearance

*2 90° and 270° are invalid only in the 320×180 resolution.

*1 Converted value

Unit : mm (inches)



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In O

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.

AI 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. Direction

· 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.

AI Privacy Guard



Original image

Processed image



Original image



Processed image

Optional Accessories

Mount Bracket / Dome Cover / Other



•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.

- 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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