

WV-X2271L

4K Vandal Resistant Indoor Dome Network Camera with AI engine

The WV-X2271L 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 OFF with H.265

Optimization of image quality and data compression using AI

- 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

- 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
- FIPS140-2 CAVP compliant
 - *Using encryption module standardized by FIPS publication 140-2
- ONVIF® Profile G / M / S / T
- *ONVIF is a trademark of ONVIF, Inc.

Industry examples

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



Specifications

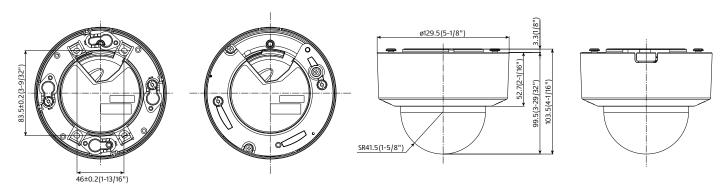
Camera	Image 9	Sensor	1/1.8 type CMOS image sensor	
	Minimum Illumination		Color : 0.09 lx, BW : 0.05 lx	
	William Marinia Con		(F1.5, Maximum shutter : Off (1/30s), AGC : 11)	
			BW : 0 lx	
			(F1.5, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)	
			Color: 0.006 lx, BW: 0.003 lx	
			(F1.5, Maximum shutter : max. 16/30s, AGC : 11) *1	
				White Balance
	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 / AI 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
	Color/BW (ICR)		Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /	
	, ,		Auto2 (IR Light On) / Auto3 (SCC) High / Middle / Low / Off, Maximum irradiation distance : 30 m {Approx. 98 ft}	
	IR LED Light			
				Digital Noise Reduction
	Video Motion Detection (VMD)		On / Off, 4 areas available	
	Scene Change Detection (SCD)		On / Off, 1 area available	
			On / Off, Up to 8 zones available	
	Privacy Zone Image rotation*2*3		0 ° (Off) / 90 °/ 180 ° (Upside-down) / 270 °	
		Camera Title (OSD)		
	Lens	_	_ ' '	On / Off, Up to 20 characters (alphanumeric characters, marks) 2.0x (Motorized zoom / Motorized focus)
	Lens	Optical zoom		,
	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	e (62.5ppm / 19ft)	Wide: 25.32 m / 83.08 ft, Tele: 62.99 m / 206.64 ft	
	Recogn	ize (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			Horizontal (PAN) angle : ±180°,	
3 3			Vertical (TILT) angle : -30 to +85°, Azimuth (YAW) angle : ±100°	
Browser	ser Camera Control		Brightness, AUX On / Off	
GUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High	
	/ Addio		Audio Output : On / Off Volume adjustment : Low / Middle / High	
	GUI /		English, Italian, French, German, Spanish, Portuguese, Russian,	
	Setup Menu Language		Chinese, Japanese	
	Network IF		10Base-T / 100Base-TX, RJ45 connector	
Network	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	
	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort	
		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) / Of	
			*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.26	

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, 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)
	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/M/S/T
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, TCP alarm notification output
Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini jack
·	An NTSC or PAL signal can be outputted from camera
, , ,	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
	Input level : Approx. –10 dBV
Audio Output *8	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 Ω (unbalanced)
External I/O Terminals	Output level: -20 dBV ALARM IN 1(Alarm input 1/Black & white input/Auto time adjustment input) (x' ALARM IN 2 (Alarm input 2/ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/AUX OUT) (x1)
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 890 mA/Approx. 10.7 W
Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 230 mA/ Approx. 11.0 W (Class 0 device)
Ambient Operating Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Ambient Operating Humidity	10 to 90 % (no condensation)
Shock Resistance	IK10 (IEC 62262)
Dimensions	ø129.5 mm x 103.5 mm (H) {ø5-1/8 inches x 4-1/16 inches (H)}
	Dome radius 41.5 mm {1-5/8 inches}
Mass	Dome radius 41.5 mm {1-5/8 inches} Approx. 830 q {1.83 lbs}
	Audio transmission mode Supported Protocol No. of Simultaneous Users SDXC/SDHC/SD Memory Card Mobile Terminal Compatibility ONVIF® Profile Alarm Source Alarm Actions Monitor Output (for adjustment) Audio input For microphone input: Audio Output *8 External I/O Terminals Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Temperature Ambient Operating Imperature Ambient Operating Imperature Ambient Operating Humidity Shock Resistance

Appearance

With Attachment plate

Unit: mm (inches)



^{*1} Converted value
*2 90° and 270° are invalid only in the 320×180 resolution.

 ³ Following the setting angle of the rotated image, the analog output of the MONITOR OUT terminal rotates.
 4 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 3840×2160.
 5 H.265/H.264 can be selected for each stream.

^{**}To 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).

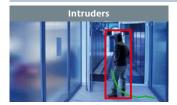
**8 This camera is not equipped with the function to change the audio output to the monitor output.

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



 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



Processed image



Original image



Processed image

Optional Accessories

■ Mount Bracket / Dome Cover / Other

Ceiling Mount Bracket (Embedded) **WV-QEM100-W** Ceiling Mount Bracket Wall Mount Bracket Ceiling Mount Bracket Mount Bracket Ceiling Mount Bracket WV-QCL501-W WV-Q105A WV-QCL100-W WV-QSR501-W WV-QWL501-W (This bracket requires WV-QCL501-W, WV-QWL501-W or WV-QAT500-W.) (This bracket requires WV-QSR501-W.) (This bracket require: WV-OSR501-W.) Attachment pipe (For 3rd party bracket) Wall Mount Bracket Adapter Box Pole Mount Bracket Corner Mount Bracket Dome Cover (Smoke Type) WV-QJB500-W WV-QPL500-W WV-QCN500-W WV-QWL500-W WV-CR1S WV-QAT500-W (This bracket requires (This bracket require (This bracket require (This bracket require WV-QSR501-W.)

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 Android is a trademark of Google LLC.
- ONVIF is a trademark of ONVIF. Inc.
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- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- i-PRO Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.

• Masses and dimensions are approximate. • Specifications are subject to change without notice.



[•] 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.