

For US WV-X1571LN

4K Outdoor Bullet Network Camera with AI engine

WV-X1571LN 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 guality.

*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.
- 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
- ClearSight Coating
- 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

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



Specifications

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Camera	Image Sensor Minimum Illumination	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 : O 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
	5 .	(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 : 53° (TELE) – 104° (WIDE), Vertical : 30° (TELE) – 56° (WIDE)
DORI *4	Detect (25ppm / 8ft)	Wide: 60.00 m / 196.86 ft, Tele: 154.04 m / 505.37 ft
	Observe (62.5ppm / 19ft)	Wide: 24.00 m / 78.74 ft, Tele: 61.61 m / 202.15 ft
	Recognize (125ppm / 38ft)	Wide: 12.00 m / 39.37 ft, Tele: 30.81 m / 101.07 ft
	Identify (250ppm / 76ft)	Wide: 6.00 m / 19.69 ft, Tele: 15.40 m / 50.54 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)
	Mall	Yaw : -190 ° to +100 ° (Adjust by azimuth (YAW) angle) Horizontal : ±100 ° (Adjust by vertical (TILT) angle)*
	Wall mounting	Vertical : ±100 ° (Adjust by vertical (TLT) angle)*
		Yaw : -190 ° to +100 ° (Adjust by vertical (Tit) angle)
		*You can change between horizontal and vertical angels by adjusting
		the horizontal (PAN) angle.
Browser	Camera Control	Brightness, AUX On / Off
GUI	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
GOI	Audio	Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI /	English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language	Chinese, Japanese
Network		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 H.264*6 Transmission Type	Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast

² 90° and 2/0° 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.
⁶ Transmission for 4 streams can be individually set.

		*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 ^{*7} : 64 kbps / 96 kbps / 128 kbps
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
	Addio transmission mode	Interactive (Full duplex)
	Currents d Deste sel	INTERACTIVE (FUIL OUPIEX) IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP,
	Supported Protocol	
		DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ,
		SSL/TLS ^{*8} , MQTT ^{*8} , LLDP ^{*8}
		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, SSL/TLS ^{*8} , MQTT ^{*8} , LLDP ^{*8}
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.265 / H.264 recording :
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
		JPEG recording :
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SDXC/SDHC/SD Memory Card :
		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	
Alarm		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
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 *9	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)
Conorri	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
General	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and	
		DC power supply : DC 12 V 930 mA/Approx. 11.2 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 240 mA/Approx. 11.5 W (Class 0 device)
	Ambient Operating	-40 °C to +60 °C (-40 °F to +140 °F) ^{*10}
	Temperature	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Dehumidification Device	Rosahl element
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Wind Resistance	Up to 40 m/s {approx. 89 mph}
	Dimensions	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)}
		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)}
	Mass	With adapter box : 2.2 kg {4.85 lbs}
	INIG 33	
	The lash	Without adapter box : 1.7 kg {3.75 lbs}
	Finish	Main body : Aluminum die cast and resin, i-PRO white
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Front panel : Polycarbonate resin (with ClearSight coating), Clear

Network Smart Coding

*7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

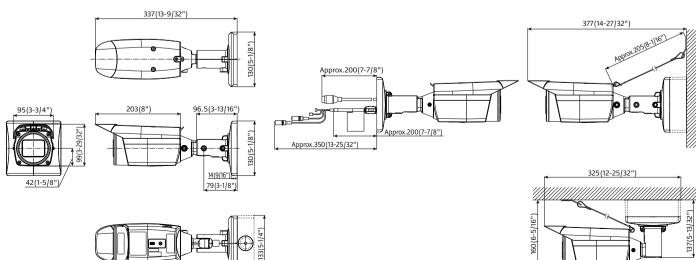
8 It may be necessary to upgrade the firmware to use these protocols
9 This camera is not equipped with the function to change the audio output to the monitor output.

*10 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

Appearance

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

*1 Converted value



Smart Facial Coding : On (Smart Facial Coding*) / On (Auto VIQS) / Off

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.



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

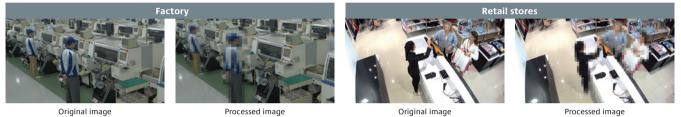


 It is possible to issue an alarm when an object moving in the specified direction crosses a specified threshold.

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

Optional Accessories

Mount Bracket



•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.

Trademarks and registered trademarks

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Important

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.



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