

12MP Sensor Indoor 360-degree Fisheye Network Camera

The WV-X4172 captures the highest quality images in even very challenging and dynamic environments. In particular, the image of the person's face or object at the edge of the fisheye is clear with less distortion. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage. Cameras out-of-the-box, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

Extreme image quality for evidence capturing under challenging conditions

- Clear and less distorted image of the person's face and objects at the edge of the fisheye
- Instant response to sudden light changes like tunnel entry and exit
- Auto Shutter speed control for fast moving objects

Extreme bandwidth compression with new H.265 Smart Coding

- Longer recording and less storage space compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) dynamically detects motion areas to keep vehicles and humans in good picture quality while lowering your bandwidth *Region of Interest

Extreme Data Security

- Full encryption SD card edge recording to keep your data safe
- FIPS140-2 CAVP compliant *Using encryption module standardized by FIPS publication 140-2
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features

- 12MP Sensor
- 2992x2992 pixel fisheye image up to 30fps
- iA (intelligent Auto)
- H.265 Smart Coding
- i-VMD License Bundled
- ONVIF[®] Profile G / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Transportation (Airport / Subway station)
- Logistics / Factory
- Education / Hospital
- Retail / Bank
- Building

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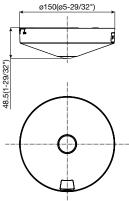
2992 x 2992 4000 x 3000

For Global

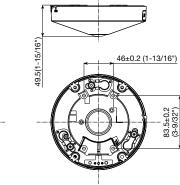
Specifications

Image Sensor	Approx. 1/2 type 12MP CMOS image sensor
Minimum Illumination	Color : 0.3 lx, BW : 0.2 lx
	(F1.9, Maximum shutter : Off (1/30 s), AGC : 11)
	Color : 0.02 lx, BW : 0.01 lx
	(F1.9, Maximum shutter : max. 16/30s, AGC : 11) *1
Intelligent Auto	On / Off
Maximum shutter	Max.16/30s to Max. 1/10000s
	On / Off, The level can be set in the range of 0 to 31.
	Max.84 dB (Wide Dynamic Range : On, level : 31)
	Gain (AGC), White balance
	Adaptive black stretch, Back light compensation (BLC),
Intrage compensation	Fog compensation, High light compensation (HLC),
	Digital noise reduction
Day (Night (Electrical)	Off / Auto
,	
	On / Off, 4 areas available
• • • •	Type 8 *Bundled License
	On / Off, Up to 8 zones available
	On / Off, Up to 20 characters (alphanumeric characters, marks)
	-5°, 0°, +5°
	1x
	Choose from 3 levels of x1, x2, x4
	1.4 mm {1/16 inches}
Maximum Aperture Ratio	1:1.9
Focus range	0.5 m {19-11/16 inches} - ∞
Angular Field of view	Horizontal : 183° Vertical : 183°
Distance to the object	Detect (25 ppm / 8 ppf) : 29.9 m / 98.2 ft
in the center of the image	Observe (62.5 ppm / 19 ppf): 12.0 m / 39.3 ft
	Recognize (125 ppm / 38 ppf): 6.0 m / 19.6 ft
	Identify (250 ppm / 76 ppf) : 3.0 m / 9.8 ft
Coverage radius	Detect (25 ppm / 8 ppf) : 56.1 m /184.2 ft
when mounted at a height	Observe (62.5 ppm / 19 ppf) : 20.6 m / 67.6 ft
	Recognize (125 ppm / 38 ppf): 8.4 m / 27.6 ft
	Identify (250 ppm / 76 ppf) : 0.3 m / 0.9 ft
Camera Control	Brightness
	English, Italian, French, German, Spanish, Portuguese, Russian,
	Chinese, Japanese
Network IF	
Decelution (Celline)	10Base-T / 100Base-TX, RJ45 connector
Resolution <ceiling></ceiling>	•Fisheye mode (max. 30 fps/25 fps)
Resolution <ceiling> <wall></wall></ceiling>	•Fisheye mode (max. 30 fps/25 fps) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320
	•Fisheye mode (max. 30 fps/25 fps) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 15 fps/12.5 fps), Single PTZ mode (max. 15 fps/12.5 fps)
<wall></wall>	Fisheye mode (max. 30 fps/25 fps) 2992-2992 / 2192-2192 / 1280-x1280 / 640×640 / 320×320 Quad PTZ mode (max. 15 fps/12.5 fps), Single PTZ mode (max. 15 fps/12.5 fps) 2560-x1920*4 / 2048×1536 / 1600×1200 / 1280-960 / 800×600 / VGA / QVGA
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<wall></wall>	•Fisheye mode (max. 30 fps/25 fps) 2992x2992 / 2192x2192 / 1280x1280 / 640x640 / 320x320 •Quad PTZ mode (max. 15 fps/125 fps), Single PTZ mode (max. 15 fps/125 fps) 2560x1920 ⁴ / 2048x1536 / 1600x1200 / 1280x960 / 800x600 / VGA / QVGA Double Panorama mode (max. 15 fps/12.5 fps) 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180
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<wall></wall>	Fisheye mode (max. 30 fps/25 fps) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 Quad PTZ mode (max. 15 kps/12.5 fps) S560×14920*4 / 2048×1536 / 1600×1200 / 1280×3960 / 800×600 / VGA / QVGA *Double Panorama mode (max. 15 fps/12.5 fps) S560×1400 / 1280×204 / 2640×360 / 320×180 *Fisheye + Double Panorama mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 *Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps)
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<wall></wall>	•Fisheye mode (max. 30 fps/25 fps) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 15 ps/12.5 fps) Single PTZ mode (max. 15 fps/12.5 fps) 2560×1920*4 / 2048×1536 / 1600×1200 / 1280×960 / 800×600 / VGA / QVGA •Double Panorama mode (max. 15 fps/12.5 fps) 2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180 •Fisheye + Double Panorama mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 •Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×960 / 800×600 / VGA / QVGA •Quad streams) 1280×900 / 800×600 / VGA / QVGA (max. 15 fps/12.5 fps) (Single PTZ (Quad streams)) 1280×900 / 800×600 / VGA / QVGA (max. 15 fps/12.5 fps)
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	Wide Dynamic Range ²² Dynamic Range Image Settings Image Compensation Day / Night (Electrical) Video Motion Detection (MMD) Intelligent VMD (i-VMD) ²³ Privacy Zone Camera Title (OSD) Fixing angle adjustment Zoom Ratio Digital (electronic) zoom Focal length Maximum Aperture Ratio Focus range Angular Field of view Distance to the object in the center of the image Coverage radius

Appearance



Unit : mm (inches)



With Attachment Plate

Network	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.264*5	Transmission Type	Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast
	JPEG	Image Quality	10 steps
	Smart Coding		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.
			Auto VIQS : On / Off
	Supported Protocol		IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD,
			ICMP, ARP, IEEE 802.1X, DiffServ, SSL/TLS*6, SRTP*6, SFTP*6, MQTT*6, LLDP*6
			IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,
			SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP,
			ARP, IEEE 802.1X, DiffServ, SSL/TLS'6, SRTP'6, SFTP'6, MQTT'6, LLDP'6
			Up to 14 users (Depends on network conditions)
SDXC/SDHC/S		SDHC/SD	H.265 / H.264 recording :
	Memory Card		Manual REC / Alarm REC (Pre/Post) / Schedule REC
			JPEG recording : Manual REC / Alarm REC (Pre/Post)
			Compatible SDXC/SDHC/SD 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 S	ource	VMD, Command alarm
	Alarm A	ctions	SDXC/SDHC/SD memory recording, E-mail notification,
			HTTP alarm notification, Indication on browser,
			TCP alarm notification output
General	Safety		UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC		FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035
	Power 8	Source and	PoE (IEEE802.3af compliant)
	Power (Consumption	Device : DC 48 V 150 mA/Approx. 7.2 W (Class 0 device)
	Ambien	t Operating	0 °C to +40 °C (32 °F to 104 °F)
	Temper	ature	
	Ambient Operating Humidity		10% to 90 % (no condensation)
	Dimensions		ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)}
	Mass (a	ipprox.)	Approx. 400 g {0.88 lbs}
	Finish		Main body : ABS resin, i-PRO white
0			

*1 Converted value

*2 When 'On (level 30 or 31)" is selected for "Wide Dynamic Range(WDR)", the frame rate is restricted to a maximum of 15fps (30fps mode) or 12.5fps (25fps mode)...
*3 Auto VIQS, i-VMD, can not be used at the same time.

*4 When "Single PTZ" mode is used in wall installations, the 2560×1920 resolution cannot be used.

*5 Transmission for 2 streams can be individually set.

*6 It may be necessary to upgrade the firmware to use these protocols

Bundled License

Plug-in Software for i-VMD

i-VMD is possible to detect objects in the specified area by advanced video analysis technology. i-VMD : People Counting, Heat-map, MOR (Moving Object Remover), Intruder Detection, Loitering Detection, Cross line Detection, Object Detection, Scene change Detection

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 combinatio

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.

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