

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



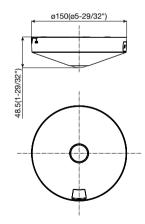


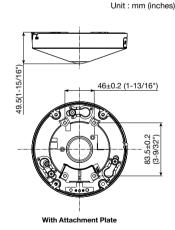
2992 x 2992 4000 x 3000

Specifications

Spec	eifications			
Camera	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		
	Wide Dynamic Range*2	On / Off, The level can be set in the range of 0 to 31.		
	Dynamic Range	Max.84 dB (Wide Dynamic Range : On, level : 31)		
	Image Settings	Gain (AGC), White balance Adaptive black stretch, Back light compensation (BLC), Fog compensation, High light compensation (HLC),		
	Image Compensation			
		Digital noise reduction		
	Day / Night (Electrical)	Off / Auto		
	Video Motion Detection (VMD)	On / Off, 4 areas available		
	Intelligent VMD (i-VMD)*3	Type 8 *Bundled License		
	Privacy Zone	On / Off, Up to 8 zones available		
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)		
	Fixing angle adjustment	-5°, 0°, +5°		
Lens	Zoom Ratio	1x		
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4		
	Focal length	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°		
DORI	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		
	of 3 m (10 ft)	Recognize (125 ppm / 38 ppf): 8.4 m / 27.6 ft		
		Identify (250 ppm / 76 ppf) : 0.3 m / 0.9 ft		
Browser	Camera Control	Brightness		
GUI	GUI /	English, Italian, French, German, Spanish, Portuguese, Russian,		
	Setup Menu Language	Chinese, Japanese		
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector		
	Resolution <ceiling></ceiling>	•Fisheye mode (max. 30 fps/25 fps)		
	<wall></wall>	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)		
		2560×1920*4 / 2048×1536 / 1600×1200 / 1280×960 / 800×600 / VGA / QVGA		
	<ceiling></ceiling>	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 mode		
		(Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 15 fps/12.5 fps)		
		(Quad PTZ) 2560×1920 / 2048×1536 / 1600×1200 / 1280×960 /		
		800×600 / VGA / QVGA (max. 5 fps)		
	<wall></wall>	Panorama mode (max. 15 fps/12.5 fps)		
		2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180		
		•Fisheye + Panorama mode (max. 15 fps/12.5 fps)		
		(Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320		
	(Panorama) 1280×720 / 640×360 / 320×180			
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Appearance





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 GOP (Group of pictures) control: Smart Coding 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, MOTT'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/SD H.265 / H.264 recording Manual REC / Alarm REC (Pre/Post) / Schedule REC Memory Card 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 ONVIF® Profile iPad, iPhone, Android™ terminals G/S/T Alarm Source VMD, Command alarm Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, TCP alarm notification output UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 General Safety FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 EMC Power Source and PoE (IEEE802.3af compliant) Power Consumption Device : DC 48 V 150 mA/Approx. 7.2 W (Class 0 device) 0 °C to +40 °C (32 °F to 104 °F) Ambient Operating Temperature Ambient Operating Humidity 10% to 90 % (no condensation) Dimensions ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)} Approx. 400 g {0.88 lbs Main body: ABS resin, i-PRO white Finish

- *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

Ceiling Mount Bracket WV-Q105A	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white) (This bracket requires WV-QWL500-W.)			
Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)				

WV-QWI 500-W.) •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.

(This bracket requires

Important

WV-QWI 500-W.)

- 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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