

# WV-S4151

## **5MP Sensor Indoor 360-degree Fisheye Network Camera**

The WV-S4151 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
- Super Dynamic 120dB for backlit situations and shadows on night streets

#### 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

#### Complete with powerful analytics built-in

- Heat map : Visualization of people's traffic pattern and staying times
- People Counting : Statistics data on the number of people entering and leaving a specific zone
- MOR (Moving Object Remover) : Monitoring of only the surrounding environment by removing people and other moving objects from video

#### **Key Features**

- 2192x2192 pixel fisheye images up to 30fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- H.265 Smart Coding
- i-VMD License Bundled
- ONVIF<sup>®</sup> Profile G / S / T \*ONVIF is a trademark of ONVIF, Inc.

#### **Industry examples**

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



#### For Global

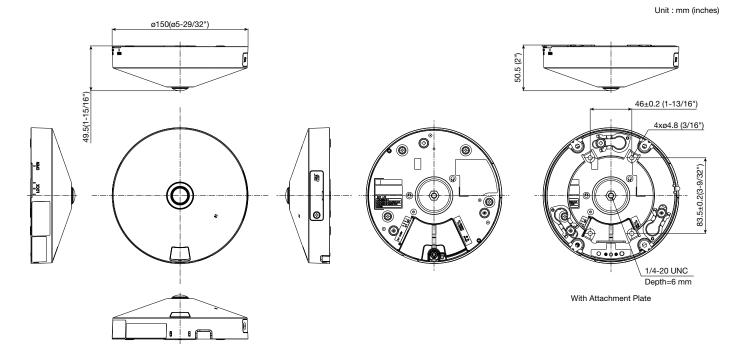
#### **Specifications**

Image Sensor	Approx. 1/3 type 5MP MOS image sensor			
Minimum Illumination	Color : 0.15 lx, BW : 0.1 lx			
	(F2.4, Maximum shutter : Off (1/30 s), AGC : 11)			
	Color : 0.01 lx, BW : 0.006 lx			
	(F2.4, Maximum shutter : max. 16/30s, AGC : 11) *1			
Intelligent Auto	On / Off			
	Max.16/30s to Max. 1/10000s			
	On / Off, The level can be set in the range of 0 to 31.			
Dynamic Range	Max.120 dB (Super Dynamic : On, level : 31)			
Image Settings	Gain (AGC), White balance			
Image Compensation	Adaptive black stretch, Back light compensation (BLC),			
	Fog compensation, High light compensation (HLC),			
	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°			
Zoom Ratio	1x			
Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4			
Focal length	0.84 mm {1/32 inches}			
Maximum Aperture Ratio	1:2.4			
Focus range	0.3 m {11-13/16 inches} - ∞			
Angular Field of view	Horizontal : 186° Vertical : 186°			
Distance to the object	Detect (25 ppm / 8 ppf) : 20.7 m / 68.0 ft			
in the center of the image Observe (62.5 ppm / 19 ppf) : 8.3 m / 27.2 ft				
	Recognize (125 ppm / 38 ppf): 4.1 m / 13.6 ft			
Identify (250 ppm / 76 ppf) : 2.1 m / 6.8 ft				
Coverage radius	Detect (25 ppm / 8 ppf) : 38.0 m /124.6 ft			
when mounted at a height	height Observe (62.5 ppm / 19 ppf) : 13.2 m / 43.3 ft			
of 3 m (10 ft)	Recognize (125 ppm / 38 ppf): 4.3 m / 14.1 ft			
Identify (250 ppm / 76 ppf) :				
Camera Control	Brightness, AUX On / Off			
Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High			
Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High			
Audio GUI / Setup Menu Language				
	Audio Output : On / Off Volume adjustment : Low / Middle / High			
GUI / Setup Menu Language	Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese			
GUI / Setup Menu Language Network IF	Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector			
GUI / Setup Menu Language Network IF Resolution <ceiling></ceiling>	Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •Fisheye mode (max. 30 fps/25 fps)			
GUI / Setup Menu Language Network IF Resolution <ceiling></ceiling>	Audio Output     : On / Off     Volume adjustment : Low / Middle / High       English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese       10Base-T / 100Base-TX, RJ45 connector <b>Fisheye mode (max. 30 fps/25 fps)</b> 2192×2192 / 1280×1280 / 640×640 / 320×320			
GUI / Setup Menu Language Network IF Resolution <ceiling></ceiling>	Audio Output     : On / Off     Volume adjustment : Low / Middle / High       English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese       10Base - T / 100Base - TX, RJ45 connector       •Fisheye mode (max. 30 fps/25 fps)       2192×2192 / 1280×1280 / 640×640 / 320×320       •Quad PTZ mode (max. 30 fps/25 fps), Single PTZ mode (max. 30 fps/25 fps)			
GUI / Setup Menu Language Network IF Resolution <ceiling> <wall></wall></ceiling>	Audio Output         : On / Off         Volume adjustment : Low / Middle / High           English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese         10Base-T / 100Base-TK, BJ45 connector           •Fisheye mode (max. 30 fps/25 fps)         2192×2192 / 1280×1280 / 640×640 / 320×320           •Quad PTZ mode (max. 30 fps/25 fps), Single PTZ mode (max. 30 fps/25 fps), 1600×1200 / 1280×960 / 800×600 / VGA / QVGA			
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GUI / Setup Menu Language Network IF Resolution <ceiling> <wall></wall></ceiling>	Audio Output         : On / Off         Volume adjustment : Low / Middle / High           English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese         10Base-T / 100Base-TX, RJ45 connector           Fisheye mode (max. 30 fps/25 fps)         2192×2192 / 1280×1280 / 640×640 / 320×320           •Quad PTZ mode (max. 30 fps/25 fps), Single PTZ mode (max. 30 fps/25 fps)         1600×1200 / 1280×900 / 800×600 / VGA / QVGA           •Double Panorama mode (max. 30 fps/25 fps)         1920×1080 / 1280×720 / 640×360 / 320×180			
GUI / Setup Menu Language Network IF Resolution <ceiling> <wall></wall></ceiling>	Audio Output         : On / Off         Volume adjustment : Low / Middle / High           English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese         10Base-T / 100Base-TK, PL45 connector           • Fisheye mode (max. 30 fps/25 fps)         2192-x2192 / 1280x1280 / 640x640 / 320x320           • Quad PTZ mode (max. 30 fps/25 fps)         500x1200 / 640x640 / 320x320           • 00uble Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x360 / VGA / QVGA           • Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x360 / 320x180           • Fisheye + Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x360 / 320x180			
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GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> <ceiling></ceiling></wall></ceiling>	Audio Output         : On / Off         Volume adjustment : Low / Middle / High           English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese         10Base-T / 100Base-TX, BJ45 connector           • Fisheye mode (max. 30 fps/25 fps)         2192-x2192 / 1280x1280 / 640x640 / 320x320           • Quad PTZ mode (max. 30 fps/25 fps)         1920x1080 / 1280x960 / 800x600 / VGA / QVGA           • Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x3640 / 320x180           • Fisheye + Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x3640 / 320x180           • Fisheye + Double Panorama mode (max. 30 fps/25 fps)         (Fisheye) 2192-x2192 / 1280x1280 / 640x640 / 320x320           • Double Panorama 1280 / 640x640 / 320x320         (Double Panorama) 1280x720 / 640x360 / 320x180           • Fisheye + Quad PTZ mode (max. 30 fps/25 fps)         (Fisheye) 2192-x2192 / 1280x1280 / 640x640 / 320x320           (Quad PT2) 1280x960 / 800x600 / VGA / QVGA         • Quad streams mode           • Quad streams mode         (max. 30 fps/25 fps)           • Single PTZ (Joud streams) 1280x960 / 800x600 / VGA / QVGA (max. 30 fps/25 fps)           • Quad PTamerams mode         (Single PTZ (Joud streams) 1280x960 / 800x600 / VGA / QVGA (max. 30 fps/25 fps)           • Quad streams mode         (Single PTZ (Joud streams) 1280x960 / 800x600 / VGA / QVGA (max. 50 fps/25 fps)           • Panorama mode (max. 30 fps/25 fps)         • Panorama mode (			
GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> <ceiling></ceiling></wall></ceiling>	Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, BJ45 connector •Fisheye mode (max. 30 fps/25 fps) 2192×2192 / 1280×1280 / 640×640 / 320×320 •Ouad PTZ mode (max. 30 fps/25 fps) f800×1200 / 1280×960 / 800×600 / VGA / QVGA •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×320 (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama 1280×720 / 640×360 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×320 (Double Panorama) 1280×720 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×640 / 320×320 (Guad PTZ) 1280×960 / 800×600 / VGA / QVGA •Quad streams mode (Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Guad PTZ) 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps) •Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180			
GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> <ceiling></ceiling></wall></ceiling>	Audio Output         : On / Off         Volume adjustment : Low / Middle / High           English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese         10Base-T / 100Base-TK, BJ45 connector           • Fisheye mode (max. 30 fps/25 fps)         2192-2192 / 1280x1280 / 640x640 / 320x320           • Quad PTZ mode (max. 30 fps/25 fps)         1920x1080 / 1280x960 / 800x600 / VGA / QVGA           • Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x360 / 320x180           • Fisheye + Double Panorama mode (max. 30 fps/25 fps)         1920x1080 / 1280x720 / 640x360 / 320x180           • Fisheye + Double Panorama mode (max. 30 fps/25 fps)         (Fisheye) 2192×2192 / 1280x1280 / 640x640 / 320x320           • Double Panorama 1280 x720 / 640x360 / 320x480         • Fisheye + Quad PTZ mode (max. 30 fps/25 fps)           • Fisheye + Quad PTZ mode (max. 30 fps/25 fps)         (Fisheye) 2192×2192 / 1280x1280 / 640x640 / 320x320           • (Quad PT2) 1280x960 / 800x600 / VGA / QVGA         • Quad streams mode           • Quad streams mode         (max. 30 fps/25 fps)           • (Single PTZ (Guad streams)) 1280x960 / 800x600 / VGA / QVGA (max. 30 fps/25 fps           • Quad PTZ 1800x1200 / 1280x960 / 800x600 / VGA / QVGA (max. 30 fps/25 fps           • Quad PTZ 1600x1200 / 1280x960 / 800x600 / VGA / QVGA (max. 50 fps/25 fps           • Panorama mode (max. 30 fps/25 fps)			
	Minimum Illumination Intelligent Auto Maximum shutter Super Dynamic <sup>72</sup> Dynamic Range Image Settings Image Compensation Day / Night (Electrical) Video Motion Detection (VMD) Intelligent VMD (I-VMD) <sup>73</sup> 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 when mounted at a height of 3 m (10 ft)			

Network	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort		
	H.264*4	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		
	Audio Compression Supported Protocol		G.726 (ADPCM) : 16 kbps / 32 kbps,		
			G.711 : 64 kbps,		
			AAC-LC*5 : 64 kbps / 96 kbps / 128 kbps		
			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		
	Maximum concurrent access number		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		
			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		
	<b>ONVIF<sup>®</sup></b>	Profile	G/S/T		
Alarm	Alarm S	ource	3 terminals input, VMD, Command alarm		
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification,		
			HTTP alarm notification Indication on browser,		
			TCP alarm notification output		
Input/	Audio Input		ø3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power type		
Output			(Sensitivity of microphone : -48 dB ±3 dB (0 dB=1 V / Pa,1 kHz))		
			Input impedance : Approx. 2 k $\Omega$ (unbalanced) Supply voltage : 2.5 V ±0.5 V		
	Built-in microphone		Nondirectional electret condenser microphone		
	Audio Output*7		ø3.5 mm stereo mini jack (monaural output)		
			Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV		
	External I/O Terminals		ALARM IN 1 (Auto time adjustment) (x1),		
			ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)		
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, EN550		
		Source and	DC power supply : DC12 V 400 mA, Approx. 4.8 W		
	Power Consumption		PoE (IEEE802.3af compliant) Device :		
			DC48 V 110 mA, Approx. 5.3 W (Class 2 device)		
	Ambient Operating Temperature		-10 °C to +50 °C (14 °F to 122 °F)		
	Ambient Operating Humidity		10% to 90 % (no condensation)		
	Dimensions		ø150 mm × 50.5 mm (H) {ø5-29/32 inches × 2 inches (H)}		
	Mass (approx.)		Approx. 390 g {0.86 lbs}		
	Finish		Main body : ABS resin, i-PRO white		

\*1 Converted value
\*2 When \*On (level 30 or 31)\* is selected for \*Super Dynamic\*, the frame rate is restricted to a maximum of 15/ps (30/ps mode) or 12.5/ps (25/ps mode).
\*3 Auto VIOS, I-VMD, can not be used at the same time.
\*4 Transmission for 2 streams can be individually set.
\*5 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
\*6 It may be necessary to upgrade the firmware to use these protocols
\*7 The audio output can be switched to the monitor output.
Refer to the Operating Instructions on the our support web site for descriptions of how to switch the output.

### Appearance



#### 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



Notification sent to the monitoring screen

#### **Optional Accessories**

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

#### Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
 - Android is a trademark of Google LLC.

- ONVIF is a trademark of ONVIF. Inc.

- All other trademarks identified herein are the property of their respective owners.

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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