# **Panasonic**

WV-S4551L

**BUSINESS** 

# 5MP Sensor Vandal Resistant Outdoor 360-degree Fisheye Network Camera

Panasonic WV-S4551L 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
- Built-in IR LED to produce a clear monochrome image in zero lux conditions with 10 m (33 feet) irradiation distance
- Environmental durability: EN50155, IP66, IK10, 50J compliant and Dehumidification device

# Extreme bandwidth compression with new Panasonic 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
- IP66, IK10, 50J compliant, Dehumidification device
- i-VMD License Bundled
- Fiber Optic Media Converter Unit (Optional WV-S25F1)
- Onvif Profile G / S / T

#### **Industry examples**

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





with Base Bracket

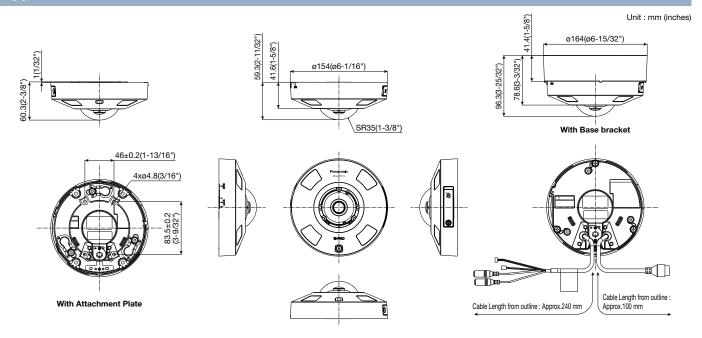


### Coosifications

Camera	ifications	
- 2	Image Sensor	Approx. 1/3 type 5MP MOS image sensor
	Minimum Illumination	Color: 0.15 lx, BW: 0.02 lx
		(F2.4, Maximum shutter : Off (1/30 s), AGC : 11)
		BW: 0 lx
		(F2.4, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)
		Color: 0.01 lx, BW: 0.0013 lx
		(F2.4, Maximum shutter : max. 16/30s, AGC : 11) *1
	Intelligent Auto	On / Off
	Maximum shutter	Max.16/30s to Max. 1/10000s
	Super Dynamic*2	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
	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 : 10 m (Approx. 33 ft)
		(Mounting height : Approx. 3 m, Peripheral intensity control : On)
	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	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°
DORI	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	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) : —
Browser	Camera Control	Brightness, AUX On / Off
GUI	Audio	Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution <ceiling></ceiling>	
	riesolution Coeiling>	•Fisheye mode (max. 30 fps/25 fps)
	<wall></wall>	•Fisheye mode (max. 30 fps/25 fps) 2192×2192 / 1280×1280 / 640×640 / 320×320
		2192×2192 / 1280×1280 / 640×640 / 320×320
		2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 30 fps/25 fps), Single PTZ mode (max. 30 fps/25 fps)
	<wall></wall>	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
	<wall></wall>	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  •Double Panorama mode (max. 30 fps/25 fps)
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	<wall></wall>	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  •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180  •Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320
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	<wall></wall>	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  •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180  •Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180  •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 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. 30 fps/25 fps) (Quad PTZ) 1000×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps)  •Panorama mode (max. 30 fps/25 fps)
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	<wall></wall>	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  •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180  •Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180  •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 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. 30 fps/25 fps) (Quad 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  •Fisheye + Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320
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Network	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	G.726 (ADPCM): 16 kbps / 32 kbps, G.711: 64 kbps,
		AAC-LC'5 : 64 kbps / 96 kbps / 128 kbps
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SMTP, DNS, NTP,
		SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
		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
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.265 / H.264 recording :
	Memory Card (Option)	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**mode
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
	ONVIF Profile	G/S/T
Alarm	Alarm Source	3 terminals input, VMD, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification Indication on browser,
		Panasonic alarm protocol output
Input/	Audio Input	ø3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power typ
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 $\pm$ 0.5 \
	Audio Output*6	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced) Output level : –20 dB
	External I/O Terminals	ALARM IN 1 (Black & white input, Auto time adjustment) (x1),
	0.4.	ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)
General		UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55038
	D 0	ECE-R10, EN50498 compliant, EN50121
	Power Source and	DC power supply: DC12 V 930 mA, Approx. 11.2 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 240 mA, Approx. 11.5 W (Class 0 devices 10.0 m.,
	Ambient Operating	IR LED : On -40 °C to +50 °C (-40 °F to 122 °F)
	Temperature	IR LED : Off -40 °C to +60 °C (-40 °F to 140 °F)
	Ambient Operating Humidity	10% to 100 % (no condensation)
	Dehumidification Device Water and Dust Resistance	Rosahl element  IP66(IEC60529), Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)
	Wind Resistance	Up to 40 m/s (approx. 89 mph)
	Railway Application	EN50155-TX
	Dimensions	When using the attachment plate :
	Difficiations	ø154 mm × 60.3 mm (H) {ø6-1/16 inches × 2-3/8 inches (H)}
		Dome radius 35 mm {1-3/8 inches}
		When using the base bracket: ø164 mm × 96.3 mm (H)
		{ø6-15/32 inches × 3-25/32 inches (H)}
		Dome radius 35 mm {1-3/8 inches}
	Mass (approx.)	When using the attachment plate: Approx. 870 g {1.92 lbs}
	асс (арргол.)	When using the base bracket: Approx. 1.3 kg {2.87 lbs}
	Finish	Main body: Aluminum die cast, i-PRO white
		Outer fixing screws : Stainless steel

# **Appearance**



<sup>1</sup> Converted value
2 When "On (level 30 or 31)" is selected for "Super Dynamic", 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 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 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.

### **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



Notification sent to the monitoring screen

# **Optional Accessories**

#### Fiber Optic Media Converter Unit

WV-S25F1

Extension Unit

Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.

Basic specifications

<u> </u>				
Power source	24 V AC(50 Hz/60 Hz)			
Ambient Operating Temperature :	-40 °C to +60 °C{-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})			
Ambient Operating Humidity:	10 % to 100 %(no condensation)			
Waterproof	IP66(IEC60529)			
Shock resistance	IK10(IEC62262)			

\*Refer to website for compatible SFP modules. https://security.panasonic.com/support/info/ <Control No.: C0504>

#### . Support specifications for SFP module

SFP Port Type	LC type
Ethernet Speed	100/1000 Mbps
Supply voltage, current	3.3 V typical, Max. 300 mA
SFP Cage	Standard mini-SFP cage
	(For 6.5 mm pitch SFP)

\*Different Color Model WV-X65F1 (Fine silver)

#### Mount Bracket / Other









WV-QCN500-W

(This bracket WV-QSR501-W.) Corner Mount Bracket

(This bracket requires WV-QWL501-W or WV-QWL500-W.)

#### Wall Mount Bracket WV-QWL501-W

(This bracket requires WV-QSR501-W.)

Attachment pipe (For 3rd party bracket) WV-QAT500-W

(This bracket requires WV-QSR501-W.)



Mount Bracket



#### Adapter Box WV-QJB500-W

(This bracket requires WV-QWL501-W or 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.

- Important
   Safety Precautions : Carefully read the Basic Information, Installation Guide and
- Operating Instructions before using this product. - Panasonic cannot be held responsible for the performance of the network and/or
- other manufacturers' products used on the network.

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

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