



Edge AI 360-degree fisheye camera that provides video surveillance without any blind spots and business intelligence.

5MP Sensor Outdoor 360 Fisheye Network Camera with AI engine

The new S-series fisheye camera is a new-generation camera equipped with an AI processor that realizes edge AI processing. With a high-performance fisheye lens and our own video compression technology, it is possible to clearly shoot 360 degrees in all directions up to the periphery of the screen with a single camera.

The camera is equipped with an AI processor, and contribute to solve various problems by installing an AI application according to the purpose.

It is possible to visualize the number of people and the congestion status with a dashboard that can be customized according to the customer's operation style, and use it for business intelligence purposes.

Key features

- The AI processor equipped with a camera realizes motion detection of people / vehicles, number counting, and congestion detection. It also supports third-party AI applications and can meet a variety of AI demands. The data aggregated inside the camera can be visualized on the dashboard in cooperation with our system, and can be used for marketing and business intelligence.
- Equipped with industry standard protocols such as ONVIF, it can be linked with third-party display software as an IoT terminal for sensor networks. Furthermore, it is possible to integrate and utilize it in another system customized according to the customer's operation.
- Equipped with a high-performance fisheye lens that has been well-established in the market, one camera can clearly shoot 360 ° in all directions up to the periphery of the screen.
- Our original smart coding compatible with H.264 and H.265 delivers high-resolution video at high image quality and low bit rate. Achieved useful images by combining with highly visible images by the intelligent auto (iA) function.

Key i-PRO Spec.

- 2192x2192 pixel fisheye images up to 30fps
- Intelligent Auto (with AI Engine)
- Super Dynamic 120dB
- Smart Coding (with Al Engine)
- IP66, IK10, 50J compliant, Anti-Condensation System
- Built-in IR LED
- Fiber Optic Media Converter Unit (Optional WV-S25F1)
- ONVIF[®] Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

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



Specifications

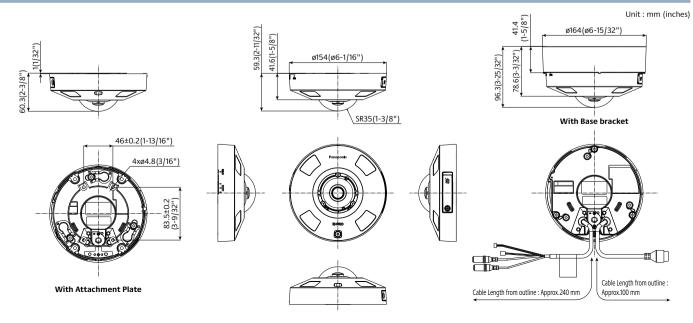
Camera	Image Sensor	Approx. 1/3 type 5MP CMOS image sensor		
	Image Sensor Minimum Illumination	Color : 0.15 lx, BW : 0.02 lx		
	Winning	(F2.4, Maximum shutter : Off (1/30 s), AGC : 11)		
		BW : 0 lx		
		(F2.4, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)		
		Color : 0.01 lx, BW : 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	aptive black stretch, Back light compensation (BLC), Fog compensation,		
	inage compensation	High light compensation (HLC), Digital noise reduction		
	Color/BW (ICR)	Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /		
	colory but (icity	Auto2 (IR Light On) / Auto3 (SCC)		
	IR LED Light	High* / Middle / Low / Off *Maximum irradiation distance : 10 m {Approx. 33 ft}		
	in ceb eight	(Mounting height : Approx. 3 m, Peripheral intensity control : On)		
	Video Motion Detection (VMD)	On / Off, 4 areas available		
	Scene Change Detection (SCD)			
	Audio Detection	On / Off		
	Al Sound Classification	Gunshot, Yell, Vehicle horn, Glass break		
	Al Analytics	Yes		
	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) : —		
1		Identity (250 ppin / 76 ppi) . —		
Browser	Camera Control	Brightness, AUX On / Off		
Browser GUI	Camera Control Audio			
		Brightness, AUX On / Off		
GUI		Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
	Audio	Brightness, AUX On / Off Mic (Line) Input : On / Off Audio Output : On / Off Volume adjustment : Low / Middle / High		
GUI	Audio GUI / Setup Menu Language	Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
GUI	Audio GUI / Setup Menu Language Network IF	Brightness, AUX On / Off Mic (Line) Input : On / Off Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector		
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GUI	Audio GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> </wall></ceiling>	Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 108ase-T / 1008ase-TX, RI45 connector Fisheye mode (max. 30 fps/25 fps) 2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 30 fps/25 fps) 1600×1200 / 1280×960 / 800×660 / VGA / QVCA •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 •Fisheye Houble Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Gingle PTZ (uoda 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) (Quad PTZ) 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps) •Panorama mode (max. 30 fps/25 fps)		
GUI	Audio GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> <ceiling> <ceiling> <wall> H.265/ Transmission Mode</wall></ceiling></ceiling></wall></ceiling>	Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RI45 connector Fisheye mode (max. 30 fps/25 fps) 2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 30 fps/25 fps) 1600×1200 / 1280×960 / 800×660 / VGA / QVCA •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 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×180 •Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Guad treams) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Quad TPI2) 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps) •Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×360 / 320×180 •Fisheye + Panorama mode (max. 30 fps/25 fps)		
GUI	Audio GUI / Setup Menu Language Network IF Resolution <ceiling> <wall> </wall></ceiling>	Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RI45 connector Fisheye mode (max. 30 fps/25 fps) 2192×2192 / 1280×1280 / 640×640 / 320×320 •Quad PTZ mode (max. 30 fps/25 fps) 1600×1200 / 1280×500 / VGA / QVGA •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×501 / 460×360 / 320×180 •Fisheye module Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×502 / 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 PTZ mode (max. 30 fps/25 fps) (Fisheye P10 (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Panorama mode (max. 30 fps/25 fps) <t< td=""></t<>		

letwork	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 ^{*4} : 64 kbps / 96 kbps / 128 kbps		
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP,		
		SNMP v1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ		
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP,		
		SMTP, DHCP, DNS, DDNS, NTP, SNMP v1/v2/v3, UPnP, IGMP, ICMP,		
		ARP, IEEE 802.1X, DiffServ, SRTP		
	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 :		
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**,		
		256 GB**, 512 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	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		
nput/	Audio Input	ø3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power type		
utput		(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		
	Audio Output ^{*5}	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 (Black & white input, Auto time adjustment) (x1),		
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)		
ieneral	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1		
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035		
		ECE-R10, EN50498 compliant, EN50121		
	Power Source and	DC power supply : DC12 V 1.03 A, Approx. 12.4 W		
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 260 mA, Approx. 12.5 W (Class 0 device)		
	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)		
	Anti-Condensation System	Rosahl element		
	Water and Dust Resistance	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 :		
		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}		
	(approxi)	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		
		outer many serems . Stamless steel		
		Dome section : Polycarbonate resin, Clear		

li C

*1 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 Transmission for 2 streams can be individually set.
 *4 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
 *5 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



Bundled License

AI-VMD/AI People Counting for 360-degree fisheye

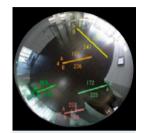
AI Video Motion Detection

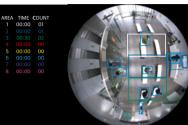
- Al differentiates between vehicles and people. It further detects and sends warning notifications when they enter a specified area.
- Intruder detection:
- It is possible to issue an alarm when a moving object enters a specified area. • Cross Line detection:
- It is possible to issue an alarm when an object moving in the specified direction crosses a specified threshold.
- Loitering detection: It is possible to issue an alarm when a moving object enters a specified area and stays there for a specified amount of time.



People Counting

- Cross Line Counting:
- It provides function of counting the number of people who crossed the line in a certain direction which is set with "Line"
- Area Counting(Queue Management):
- It provides function of counting the number of people in the set area.

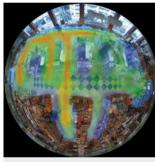




Cross Line Counting

Heat map

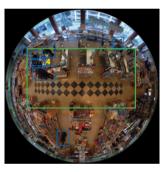
• Heat-map provides statistical information of traffic lines. Counts up both passing and loitering in the shooting area.



Passing



Loitering



Al Privacy Guard for 360-degree fisheye

AI Privacy Guard

• 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.



Original image



Processed image



Occupancy detection

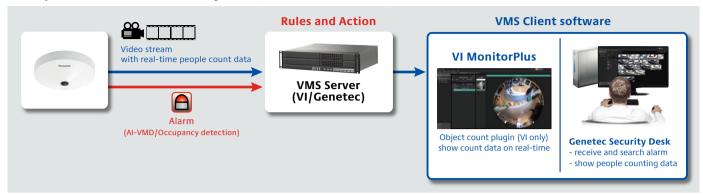
• Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

Multi-Al Server

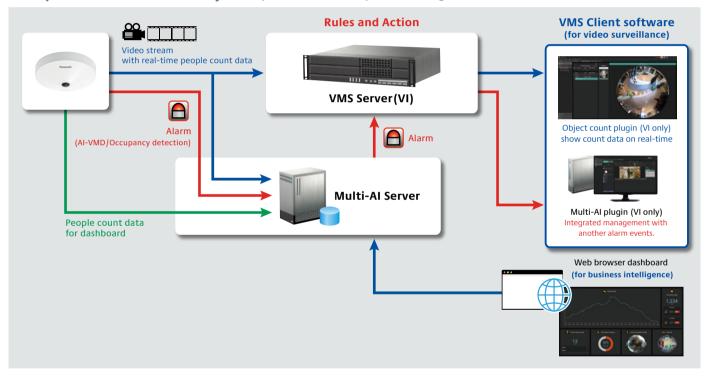
• Multi-Al Server stores the best shot images and metadata captured by i-PRO network cameras. Then, it collates this data with the watch list registered in the client software and issues an alarm when a match is found. The server does not require expensive hardware because i-PRO network cameras handle the advanced processing. The server can also be installed on the same hardware as the VMS.

The system comprises the Multi-AI Server, the AI application installed on i-PRO network cameras utilizing AI engines, and the Multi-AI plug-in software for the VMS client.

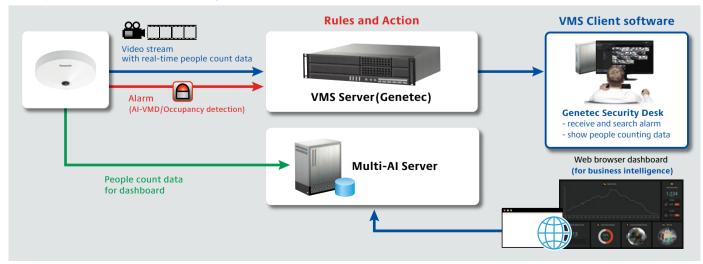
Example of Basic connection system (without Multi-AI Server)



Example of Basic connection system (with Multi-AI Server) for Video Insight



Example of Basic connection system (with Multi-AI Server) for Genetec



Optional Accessories

combination

Mount Bracket

(White)

WV-OSR501-W



*For indoor instalation only.

	11⁄2" NPT pipe.	

For indoo

instalation only.

This bracket requires

For indoor

instalation only

Mount Bracket

PS485W (White)

*1 : It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

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 - 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.
- Panasonic i-PRO Sensing Solutions 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.

Panasonic

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