

WV-S4556L

5MP Sensor Outdoor 360 Fisheye Network Camera with AI engine

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



- 2192x2192 pixel fisheye images up to 30fps
- Intelligent Auto (with AI Engine)
- Super Dynamic 120dB
- Smart Coding (with AI Engine)
- IP66, IK10, 50J compliant, Anti-Condensation System
- Built-in IR LED
- Fiber Optic Media Converter Unit (Optional WV-S25F1)
- NDAA Compliant

















SPECIFICATIONS

Image Sensor Approx. 1/3 type 5MP CMOS image sensor Minimum Illumination Color : 0.15 lx, BW : 0.02 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) Intelligent Auto On / Off Maximum Shutter max. 16/30s to Max. 1/10000s Super Dynamic On / Off, The level can be set in the range of 0 to 31. Dynamic Range Max.120 dB (Super Dynamic : 0n, 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 (Ik Light Off) / On (Ik Light Off) / Auto1 (Ik Light Off) / Auto2 (Ik Light On) / Auto3 (IK Light Off) / Auto2 (Ik Light Off) / Aut	Camera	
BW : 0 lx (F2.4, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lity	Image Sensor	Approx. 1/3 type 5MP CMOS image sensor
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Focal Length 0.84 mm {1/32 inches} Maximum Aperture Ratio 1:2.4 Focus Range 0.3 m {11-13/16 inches} - ∞	Digital (Electronic) Zoom	Choose from 3 levels of x1, x2, x4
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Focus Range 0.3 m {11-13/16 inches} - ∞	Maximum Aperture Ratio	1:2.4
Angular Field of View Horizontal: 186°, Vertical: 186°	Focus Range	0.3 m {11-13/16 inches} - ∞
	Angular Field of View	Horizontal : 186° , Vertical : 186°

DORI	
Distance to the object in the center of the image	Detect (25 ppm / 8 ppf) : 20.7 m / 68.0 ft , 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 when mounted at a height of 3 m (10 ft)	Detect (25 ppm / 8 ppf) : 38.0 m / 124.6 ft , Observe (62.5 ppm / 19 ppf) : 13.2 m / 43.3 ft Recognize (125 ppm / 38 ppf) : 4.3 m / 14.1 ft , Identify (250 ppm / 76 ppf) : —
Browser GUI	
Camera Control	Brightness, AUX On / Off
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> <wall></wall></ceiling>	•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
Resolution <ceiling></ceiling>	•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)
Resolution <wall></wall>	•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 (Panorama) 1280×720 / 640×360 / 320×180
H.265/H.264	[Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [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	G.726 (ADPCM) : 16 kbps / 32 kbps, G.711: 64 kbps, AAC-LC : 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)
Secure	Device Certificate GlobalSign® pre-installed, User authentication, Host authentication, HTTPS, 802.1X Support, Data encryption
SDXC/SDHC/SD Memory Card (Option)	H.265 / H.264 recording: 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, AndroidTM 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, TCP alarm notification output
Input/Output	
Audio Input	ø3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB ± 3 dB (0 dB=1 V / Pa,1 kHz)) Input impedance : Approx. 2 k Ω (unbalanced) Supply voltage : 2.5 V ± 0.5 V
Audio Output	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)
General	
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 Power Consumption	DC power supply: DC12 V 1.03 A, Approx. 12.4 W PoE (IEEE802.3af compliant) Device: DC48 V 260 mA, Approx. 12.5 W (Class 0 device)
Ambient Operating Temperature	IR LED : On -40 °C to +50 °C (-40 °F to 122 °F) / 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 \times 60.3 mm (H) {ø6-1/16 inches \times 2-3/8 inches (H)} , Dome radius 35 mm {1-3/8 inches} When using the base bracket : ø164 mm \times 96.3 mm (H) {ø6-15/32 inches \times 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} 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 / Dome section : Polycarbonate resin, Clear

NOTES

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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Bundled License

■ AI-VMD/AI People Counting with the 360-degree fisheye camera

AI Video Motion Detection

- All differentiates between vehicles and people, detecting and sending warning notifications when an intruder enters a specified area.
- Intruder detection:

Issues an alarm when a moving object enters a specified area.

• Cross Line detection:

Issues an alarm when an object moving in the specified direction crosses a specified threshold.

· Loitering detection:

Issues an alarm when a moving object enters a specified area and stays there for a specified amount of time.



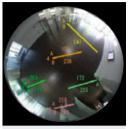
People Counting

• Cross Line Counting:

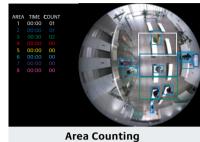
Counts the number of people moving in a specified direction and cross a specified threshold.

• Area Counting (Queue Management):

Counts the number of people in the set area.

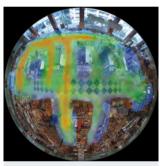






Heat map

 Heat mapping provides statistical information about traffic flow and keeps counts for people passing through and loitering in the area.



Passing



Loitering

Occupancy detection

• The network camera uses its Al engine to detect congestion, providing data that can be used to direct visitor traffic flow in advance or help staff work more efficiently.



■ Al Privacy Guard for 360-degree fisheye

Al Privacy Guard

• Al can automatically mosaic faces and figures of people who are photographed to safeguard privacy and portrait rights.



Original image



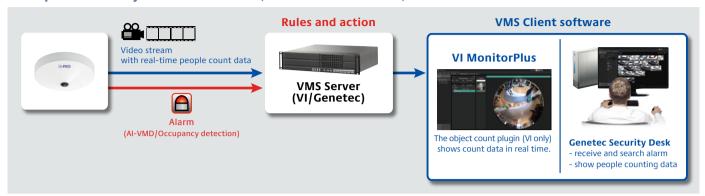
Processed image



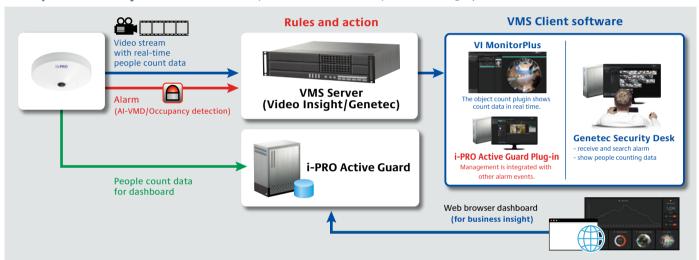
i-PRO Active Guard

• The i-PRO Active Guard stores the best images and metadata captured by i-PRO network cameras, then 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 even be installed on the same hardware as the VMS. The system comprises the i-PRO Active Guard, the Al application installed on i-PRO network cameras utilizing Al engines, and i-PRO Active Guard Plug-in software for the VMS client.

Example of basic system connection (without i-PRO Active Guard)

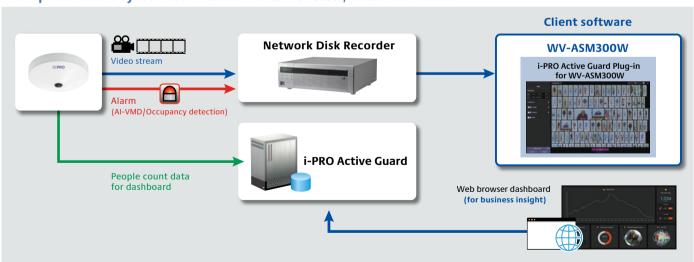


Example of basic system connection (with i-PRO Active Guard) for Video Insight/Genetec



*VMS Server and i-PRO Active Guard can be installed on the same server.

Example of basic system connection for WV-ASM300W/Network disk recorder





OPTIONAL ACCESSORIES

Select a compatible accessory Accessory Selector (i-pro.com)



WV-QWL501-W Mount Bracket



WV-QSR501-W Mount Bracket



WV-QWL500-W Mount Bracket



WV-QJB500-W Mount Bracket



WV-QPL500-W Mount Bracket



PAPM4W Mount Bracket/Only available in US



WV-QCN500-W Mount Bracket



PACA4W
Mount Bracket/Only
available in US



WV-QCL501-W Mount Bracket



WV-QCL100-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-Q105A Mount Bracket



WV-QCL102-W Universal Camera Mount Bracket



WV-QLR100-W Light Rail Mount Bracket



WV-QJB504-W Base Bracket



WV-S25F1 Unit

