

WV-S4176

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

12MP Sensor Indoor 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.

- 12MP Sensor
- 2992x2992 pixel fisheye image up to 30fps
- Intelligent Auto (with AI Engine)
- Smart Coding (with AI Engine)
- ONVIF[®] Profile G / M / 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



:::·PRO



Specifications

spec	incations	
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
	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
	Scene Change Detection (SCD)	On / Off, 1 areas available
	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
20113	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
DOM	in the center of the image	Observe (62.5 ppm / 19 ppf) : 12.0 m / 39.3 ft
	in the center of the image	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, AUX On / Off
GUI	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	/ ddio	Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI /	English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language	Chinese, Japanese
Network		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
	~wdii~	•Quad PTZ mode (max. 15 fps/12.5 fps), Single PTZ mode (max. 15 fps/12.5 fps)
		2560×1920*3 / 2048×1536 / 1600×1200 / 1280×960 / 800×600 / VGA / QVGA
	<ceiling></ceiling>	•Double Panorama mode (max. 15 fps/12.5 fps)
	seeinig.	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 + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320
		•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
		•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
		•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)
		•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 /
		•Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PT2) 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>	•Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2182×2192 / 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) •Panorama mode (max. 15 fps/12.5 fps)
	<wall></wall>	•Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2182×2192 / 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) •Panorama mode (max. 15 fps/12.5 fps) 2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180
	<wali></wali>	•Fisheye + Quad PTZ mode (max. 15 fps/12.5 fps) (Fisheye) 2992×2992 / 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PT2) 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 / 204×1363 / 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps) •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)
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Letwort H265/I Transmission Mode Constant bit rate / URB / Frame rate / Best effort JPEC Image Quality 10 steps Unicast port (AUTO) / Unicast port (MANUAL) / Multicast Smart Coding COP (Group of pictures) control: On (Frame rate control) / On (Advanced) / On (Mid) / On (Low) / Off Audio Compression C.726 (APPCM): 16 kbps / 32 kbps C.726 (APPCM): 16 kbps / 32 kbps Supported Protocol IPv6: TCP//P. UDP/IP. HTTP, HTTP, SSL/TLS, SMTP. DNS, NTP. Supported Protocol IPv6: TCP//P. UDP/IP. HTTP, HTTP, SSL/TLS, SMTP, DNS, NTP. Maimum concurrent acces number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD Maainue REC (Pare)Post) Schedule REC JPEC recording : Manual REC / Alarm REC (Pre/Post) Schedule REC JPEC recording : Manual REC / Alarm REC (Pre/Post) Schedule REC JPEC recording : Manual REC / Alarm REC (Pre/Post) Schedule REC JPEC recording : Manual REC / Pare minals SUC/SDHC/SD card : Mobile Terminal Compatibility IPd3. [Theone, Android** terminals Card :* SDK Card (except miniSD card and microSD card) Mobile Terminal Compatibility IPd3.[Theone, Android** terminals Card 4 d				
PEG 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 VQB : On / Off Audio Compression G.726 (ADPCM): 16 kbps / 32 kbps G.711 : 64 kbps AC-CLC* Supported Protocol IPv6 : TCP/IP. UDP/IP. HTTP, HTTPS, SSL/TLS, KTSP, DNS, NTP, SNMP V1/2/3, DICPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, Diffserv IPv4 : TCP/IP. UDP/IP, HTTP, HTTPS, SSL/TLS, KTSP, RTP, RTP (RTCP, SMTP, DHCP, DNS, DDNS, NTP, SMMP V1/2/3, UPAP, ICMP, ICMP, ARP, IEEE 802.1X, Diffserv, STP Mainum concurrent access number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) Memory Card Manual REC / IAIR REC (Pre/Post) Compatible SDXC/SDHC/SD Card : 2 GB, 4 GB*, 16 GB*, 22 GB*, 64 GB**, 128 GB*, 52 DFC card.** SDXC Card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad, IPhone, Android** terminals SDXC/SDHC/SD card : 2 CB, 4 GB*, 12 GC model *SDHC card.** SDXC Card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad, IPhone, Android** terminals SDXC/SDHC/SD memory recordingFmail notification, HTTP alarm notification nutput Motific or utput ON/F* Profile G /// S / T Alarm Actions SDXC/SDHC/SD memory recordingFmail notification, HTTP alarm notification output	letwork	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
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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 Supported Protocol IP/6: 1CC/IP. UDP/IP. HTTP, HTTP, SSL/TLS, SMTP, DNS, NTP, SNMP /V/2/3, DHCNFS, RTP, MLD, ICMP, ARP, IEEE R02.1X, DIfServ IP/4: 1CC/IP. UDP/IP. HTTP, HTTP, SSL/TLS, RTSP, RTP, RTP, RTP, RTP, RTP, RTP, SMTP, DHCP, DNS, DDNS, NTP, SMNP /V/2/3, UPOP, IGMP, IGMP, ICMP, ARP, IEEE R02.1X, DIfServ, SRTP Mainum concurrent access number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) Memory Card Mainual REC / Alarm REC (Pre/Post) ONVIF Profile G / M / S / T ONVIF* Profile G / M / S / T Alarm Actions SDXCC SDHC/SDHC (SDHC) Mobile Terminal Compatibility IP/4 / IP/2 (Commony recording, E-mail notification, HTTP alarm notification, indication on browser, TCP alarm notification, indication on browser, TCP alarm notification output Monitor output Koris Cor PAL signal can be outputted from camera Audio Input. For microphone Notifiectional elevel: Approx10 dBV Built-in microphone Notifiectional elevel: Approx10 dBV Built-in microphone Notifiectional elevel: -20 dBV For line Nonlifectional elevel: Approx10 dBV		Smart C	oding	GOP (Group of pictures) control :
Auto VIQS : On / Off Audio Compression G.726 (ADPCM) : 16 kbps / 32 kbps G.726 (ADPCM) : 16 kbps / 32 kbps Supported Protocol IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMP VI/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 VI/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 Manual REC / JAam REC (Pre/Post) / Schedule REC JPEG recording : Manual REC / JAam REC (Pre/Post) Memory Card Manual REC / JAam REC (Pre/Post) Compatible SDXC/SDHC/SD card : 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 42 GB*, 128 GB*, 256 GB*, 512 GB*, 512 GB*, 32 GB*, 64 GB*, 128 GB*, 256 GB*, 512 GB*, 512 GB*, 512 GB*, 266 GB*, 512 GB*, 512 GB*, 512 GB*, 266 GB*, 512 GB*, 512 GB*, 512 GB*, 276 GB*, 512 GB*, 512 GB*, 512 GB*, 276 GB*, 512 GB*, 512 GB*, 512 GB*, 276 JB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 285 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 296 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 296 GB*, 512 GB*, 512 GB*, 512 GB*, 397 GB*, 512 GB*, 512 GB*, 512 GB*, 397 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 512 GB*, 5		g		On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off
Audio Compression G.726 (ADPCM): 16 kbps / 32 kbps G.711 : 64 kbps AC-LC ^{*5} : 64 kbps Supported Protocol IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SMNP v1/v2/v3, DHCAv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, Diffserv PK4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, TSP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RT				*On (Frame rate control) and On (Advanced) are only available with H.265.
G.71 : 64 kbps AC-LC ⁵ : 64 kbps Supported Protocol IPAC-LC ⁵ Maimum concurrent acces number IPAC-LC ⁵ Variant Concurrent acces number Up to 14 users [Depends on network conditions] SDXC/SDHC/SD H285 / H.264 recording : Manual REC / Alarm REC (Pre/Post) Memory Card Maimual REC / Alarm REC (Pre/Post) Compatible SDXC/SDHC/SD Compatible SDXC/SDHC/SD card : 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 2 56 GB**, 512 GB**model *SDHC card, ** SDXC card (except minISD card and microSD card) Mobile Terminal Compatibility IPad, IPhone, Android ^{ML} terminals ONVIF® Profile G / M / S / T Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification on thowser, TCP alarm notification on utput Monitor output VBS : 1.0 V [.pp.] / 75 Q, composite, a3.5 mm mini jack An NTSC or PAL signal can be outputted from camera Audio Input For microphone Nondirectional electret condenser microphone: Plug-in power type (Sensitivi				Auto VIQS : On / Off
G.711 : 64 kbps AAC-LC ⁵ : 64 kbps Supported Protocol IPAC-LC ⁵ : 64 kbps Maimu concurrent acces number Up to 14 users (Depends on network conditions) IDSXC/SDHC/SD Maximu concurrent acces number Up to 14 users (Depends on network conditions) IDSXC/SDHC/SD Memory Card Up to 14 users (Depends on network conditions) IDSXC/SDHC/SD 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 IPA / IPAC, IPAC, Adarm REC (Pre/Post) ONVIF® Profile G / M / S / T Immal REC / Alarm REC (Pre/Post) Command REC / Alarm REC (Pre/Post) Iarm Alarm Source 3 terminals input, VMD, Command alarm Alarm Source Alarm Actions SDXC/SDHC/SD memory recording : F-mail notification, HTTP alarm notification, Indication on browser, TCP alarm notification output VB S: 1.0 V [p-p] / 75 Q, composite, a3.		Audio C	ompression	G.726 (ADPCM) : 16 kbps / 32 kbps
AAC-LC* : 64 kbps / 96 kbps / 128 kbps Supported Protocol IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, NDS, NTP, SMPV //V2/3, OLCY6, KTP, MLD, ICMP, ARP, IEEE 802 IX, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMP v1/v2/v3, UPvP, IGMP, ICMP, ARP, IEEE 802 IX, DiffServ, SRTP Maximum concurrent access number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD H.265 / H.264 recording : Manual REC / Narm REC (Pre/Post) Memory Card Haual 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*00del ONVIF* Profile C / M / S / T Alarm Actions SDXC/SDHC/SD Card : 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB*, 128 GB*, 256 GB*, 512 GB*00del ONVIF* Profile C / M / S / T Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification output Monitor output VBS : 1.0 V [p-p] / 75 Q, composite, 83.5 mm mini jack An NTSC or PAL signal can be outputted from camera Audio Input For microphone Audio Input For microphone S5 m streem mini jack, Recommeded applicable microphone: Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=1 V / Pa, 1 kH2)) Input impedance: Approx10 dBV Built-in microphone Nondirectional electret condenser microphone Audio Input For microphone </th <th></th> <th colspan="2" rowspan="2"></th> <th></th>				
Supported Protocol IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SMMP v1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802, IX, Diffserv, IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMP v1/v2/v3, UPNP, ICMP, ICMP, ARP, IEEE 802, IX, Diffserv, SRTP Maximum concurrent access number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEG recording : Manual REC / Alarm REC (Pre/Post) Mobile Terminal Compatibility IPda, IP60, Android TM terminals ONVIF® Profile G / M / S / T Alarm SDXC/SDHC/SD card (except miniSD card and microSD card) Mobile Terminal Compatibility IPda, IPhone, Android TM terminals ONVIF® Profile G / M / S / T Alarm SDXC/SDHC/SD card (except miniSD card and microSD card) Mobile Terminal Compatibility IPda, IPhone, Android TM terminals ONVIF® Profile G / M / S / T Alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTS alarm notification output Monitor output Ym S1: 10 V [D-PJ] / 75 Q. composite, e3.5 mm mini jack from adjustment) MISC or PAL signal can be outputted from camera Audio Input For microphone e3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power type (Sensitivity				AAC-LC ^{*5} : 64 kbps / 96 kbps / 128 kbps
Maximum concurrent access number Up to 14 users (Depends on network conditions) SDXC/SDHC/SD H.265 / H.264 recording : Manual REC / Narm REC (Pre/Post) / Schedule REC JPEG recording : Manual REC / Narm REC (Pre/Post) Compatible SDXC(SDHC/SD card : 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB**, 532 GB**model *SDHC card, *SDXC card (except miniSD card and microSD card) Mobile Terminal Compatibility IPPC recording : Mobile Terminals input, VMD, Command alarm Alarm Actions Alarm Actions SDXC/SDHC/SD card (except miniSD card and microSD card) Mobile Terminals input, VMD, Command alarm Alarm Actions Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification output (for adjustment) VBS : 1.0 V [p-p] / 75 Q, composite, 83.5 mm mini jack An NTSC or PAL signal can be outputted from camera Audio lnput. For microphone 8.5 mm streem ini jack, Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=1 V / Pa,1 kH2)) Input impedance : Approx10 dBW Built-in microphone Nondirectional electret condenser microphone 8.5 mm streem inini jack (monaural output) Output impedance : Approx10 dBV Built-in microphone Nondirectional electret condenser microphone 8.5 mm streem inini jack (monaural output) Output impedance : Approx10 dBV Built-in microphone Nondirectional electret condenser microphone 8.4 MM N3 (Alarm input 1 / Auto time adjustment input) (x1) AARM MN		Supported Protocol		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,
SDXC/SDHC/SD Memory Card H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEC recording : Manual REC / Alarm REC (Pre/Post) Compatible SDXC/SDHC/SD card : 2 G.8. 4 GB*, 8 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 IPAC in the interminal Compatibility ONUF* Profile G / M / S / T 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 Monitor output VBS : 1.0 V [p-p] / 75 Ω, composite, a3.5 mm mini jack (for adjustment) An TSC or PAL signal can be outputted from camera Audio Input For microphone 83.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=V / Pa, 1 kHz)) Input Impedance : Approx. 2 kQ (unbalanced) Supply voltage : 2.5 V ±0.5 V For line Built-in microphone Nondirectional electret condenser microphone Audio Output*6 Nondirectional electret condenser microphone ALARM IN1 (Alarm input 1 / Auto time adjustment input) (x1) ALARM IN3 (Alarm input 2 / ALARM OUT) (x1) ALARM IN3 (Alarm input 3 / AUX O		Maximum concurrent access number		
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2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB**, 512 GB**model *SDPC card, **SDX card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad, iPhone, Android [™] terminals ONVIF* Profile Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification output Monitor output Monitor output VBS : 1.0 V [p-p] / 75 Ω, composite, 83.5 mm mini jack (for adjustment) Aurio Input For microphone Audio Input For microphone Built-in microphone Built-in microphone Audio Uutput*6 Built-in microphone Audio Output*6 Built-in microphone Nondirectional electret condenser microphone Audio Output*6 Built-in microphone Nondirectional electret condenser microphone Audio Output*6 Built-in microphone Nadark MIN3 (Aarm input 1/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 1/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 1/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 1/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2/ ALARM OU				
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Mobile Terminal Compatibility iPad, IPhone, Android [™] terminals ONUF® Profile C / M / S / T Jarm Alarm Source 3 terminals input, VMD, Command alarm Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarn notification, Indication on browser, TCP alarm notification output Monitor output VBS : 1.0 V [p-p] / 75 Ω, composite, 83.5 mm mini jack (for adjustment) Audio Input For microphone As 5m stree on ini jack, Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=1 V / Pa,1 kHz)) Input impedance: Approx10 dBV Built-in microphone Nondirectional electret condenser microphone Audio Output*6 93.5 mm stree mini jack (monaural output) Output*6 93.5 mm stree mini jack (monaural output) Audio Output*6 93.5 mm stree mini jack (monaural output) Audio Output*6 93.5 mm stree mini jack (monaural output) Audio Output*6 93.5 mm stree mini jack (monaural output) Audio Output*6 BaltAMM IN3 (Alarm input 1 / Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2 / ALARM OUT) (x1) ALARM IN2 (Alarm input 2 / ALARM OUT) (x1) ALARM IN2 (Alarm input 1 / Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2 / ALARM OUT) (x1) ALARM IN2 (Alarm				
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Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV External I/O Terminals ALARM INI (Alarm input 1/ Auto time adjustment input) (x1) ALARM INI (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) Safety UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1) EMC FCC (Part15 ClassA), ICE5003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Source and Power Consumption DC power supply : DC 12 V 680 mA/Approx. 8.2 W Power Consumption Pof (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating Temperature -10 °C to +50 °C (14 °F to 122 °F) Momentions ø150 mm × 49.5 mm (H) (ø5-29/32 inches × 1-15/16 inches (H)) Mass (approx.) Approx. 420 g (0.93 lbs)				
External I/O Terminals ALARM IN1 (Alarm input 1/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ieneral Safety UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 ENC Power Source and Power Source and Power Consumption FCC (PartIS ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Consumption DC power supply: DC 12 V 680 mA/Approx. 8.2 W PoE (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating Temperature -10 °C to +50 °C (14 °F to 122 °F) Temperature Ambient Operating Humidity 10% to 90 % (no condensation) Dimensions Dimensions ø150 mm × 49.5 mm (H) (ø5-29/32 inches × 1-15/16 inches (H)) Mass (approx.)		External I/O Terminals		
ALARM IN2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ENEC FCC (PartIS ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Source and DC power supply : DC 12 V 680 mA/Approx. 8.2 W Power Consumption Def (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating -10 °C to +50 °C (14 °F to 122 °F) Temperature - Dimensions #150 mm × 49.5 mm (H) [65-29/32 inches × 1-15/16 inches (H)] Mass (approx.) Approx. 420 g (0.93 lbs)				
ALARM IN3 (Alarm input 3/ AUX OUT) (x1) ieneral Safety UL (U62368-1), c-UL (CSA (22.2 No. 62368-1), CE, IEC62368-1) EMC FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Source and DC power supply : DC 12 V 680 mA/Approx. 8.2 W Power Consumption PoE (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating -10 °C to +50 °C (14 °F to 122 °F) Temperature -10 °C to 90 % (no condensation) Dimensions ø150 mm × 49.5 mm (H) (69-29/32 inches × 1-15/16 inches (H)) Mass (approx.) Approx. 420 g (0.93 lbs)				
Safety UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 ENC FCC (PartIS ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Source and Power Consumption DC power supply: DC 12 V 680 mA/Approx. 8.2 W Power Consumption DC (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 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 x 49.5 mm (H) (ø5-29/32 inches × 1-15/16 inches (H)) Mass (approx.) Approx. 420 g (0.93 lbs)				
EMC FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024, EN55035 Power Source and DC power supply : DC 12 V 680 mA/Approx. 8.2 W Power Consumption PoE (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating -10 °C to +50 °C (14 °F to 122 °F) Temperature 10% to 90 % (no condensation) Dimensions ø150 mm × 49.5 mm (H) [ø5-29/32 inches × 1-15/16 inches (H)] Mass (approx.) Approx. 420 g (0.93 lbs)	onoral			
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Power Consumption PoE (IEEE802.3af compliant) Device : DC 48 V 180 mA/Approx. 8.6 W (Class 0 device) Ambient Operating Temperature -10 °C to +50 °C (14 °F to 122 °F) Ambient Operating Humidity IO% to 90 % (no condensation) Dimensions Dimensions #150 mm x 49.5 mm (H) (g5-29/32 inches × 1-15/16 inches (H)) Mass (approx.) Approx. 420 g (0.93 lbs)			ource and	
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Ambient Operating -10 °C to +50 °C (14 °F to 122 °F) Temperature Ambient Operating Humidity Dimensions ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)} Mass (approx.) Approx. 420 g {0.93 lbs}		Powerc	lonsumption	
Temperature Information Ambient Operating Humidity 10% to 90% (no condensation) Dimensions ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)} Mass (approx.) Approx. 420 g {0.93 lbs}		Ambine	+ O = = == ti = =	
Ambient Operating Humidity 10% to 90 % (no condensation) Dimensions ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)} Mass (approx.) Approx. 420 g (0.93 lbs)		· -		-10 C t0 +50 C (14 F t0 122 F)
Dimensions ø150 mm × 49.5 mm (H) {ø5-29/32 inches × 1-15/16 inches (H)} Mass (approx.) Approx. 420 g (0.93 lbs)				
Mass (approx.) Approx. 420 g {0.93 lbs}				
Finish Main body : ABS resin, i-PRO white				
		Finish		Main body : ABS resin, i-PRO white

*1 Converted value

A

lr 0

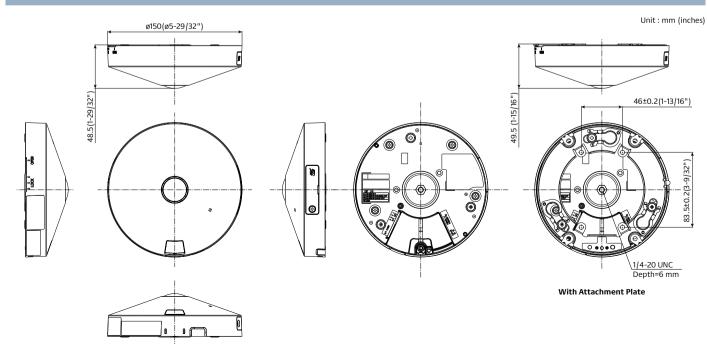
C

*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 When "Single PTZ" mode is used in wall installations, the 2560×1920 resolution cannot be used.

S when "single P12 mode is used in wall installations, the 2500×1920 resolution cannot be used.
 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.

Appearance



For US

Bundled License

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

AI Video Motion Detection

- Al 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.



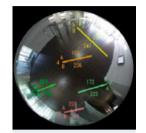
People Counting

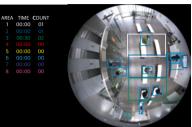
Cross Line Counting:

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.

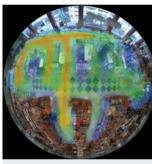




Cross Line Counting

Heat map

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



Passing



Loitering



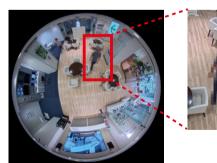
Al Privacy Guard for 360-degree fisheye

AI Privacy Guard

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



Original image



Processed image



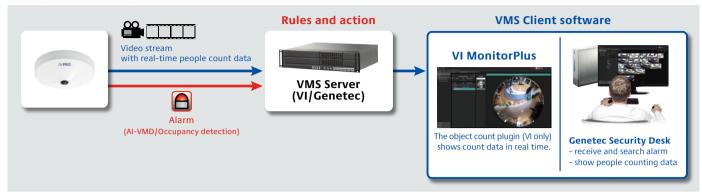
Occupancy detection

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

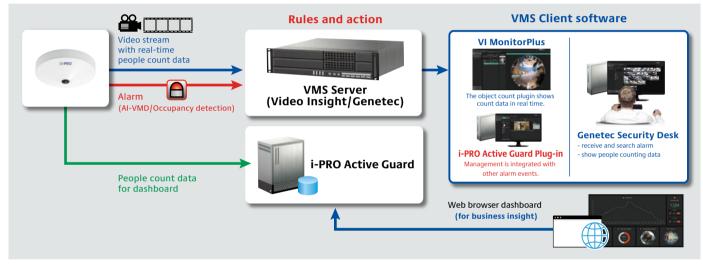
i-PRO Active Guard

• 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 AI application installed on i-PRO network cameras utilizing AI engines, and i-PRO Active Guard Plug-in software for the VMS client.

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

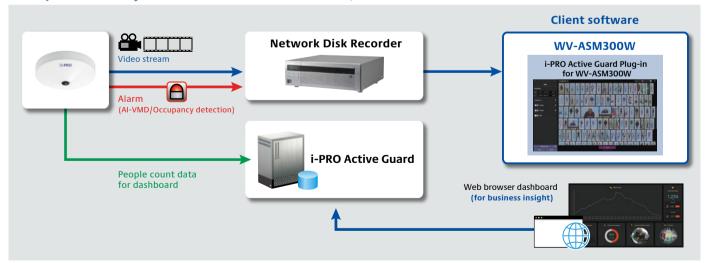


Example of basic system connection (with i-PRO Active Guard) for Video Insight/Genetec

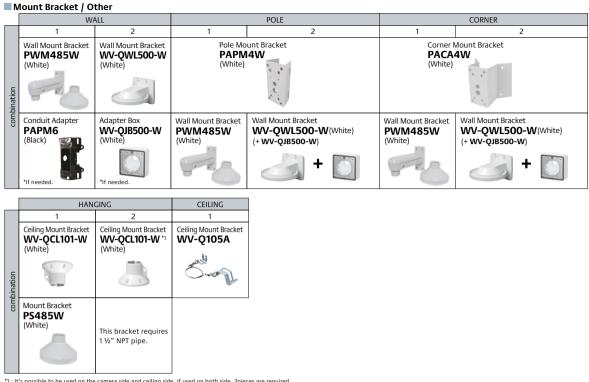


*VMS Server and i-PRO Active Guard can be installed on the same server.

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



Optional Accessories



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

Trademarks and registered trademarks

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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.
- 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.



i-PRO Co., Ltd. https://i-pro.com/ (2A-306BL)