

WV-S8564L

4 x 6MP (25MP) Outdoor Multi-Directional Network Camera with AI Engine

Industry thinnest* multi-directional cameras with AI Engine



- 4 x 6MP(25MP) 3328x1872 up to 15fps
- 360° coverage with one IP address
- Intelligent Auto (with AI Engine)
- Super Dynamic 120dB
- Color night vision (0.084 to 0.12 lx)
- Smart Coding (with AI Engine)
- Built-in 360° IR LED
- Continuous view assistance
- Wide range tilt angle adjustment mechanism
- Built-in FIPS 140-2 Level 3 Certified Secure Element
(EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

*As of February 2022, based on i-PRO own research.

SPECIFICATIONS

Camera	
Image Sensor	4x 1/2.8 type CMOS image sensor
Scanning Area	5.56 mm (H) x 3.13 mm (V) {7/32 inches (H) x 1/8 inches (V)}
Minimum Illumination	Color : 0.084 lx (30IRE, F1.44, 1/30s, AGC:11)* 0.12 lx (50IRE, F1.44, 1/30s, AGC:11) 0.008 lx (50IRE, F1.44, 16/30s, AGC:11)* BW : 0 lx (50IRE, F1.44, 1/30s, AGC:11, IR LED: On) 0.05 lx (50IRE, F1.44, 1/30s, AGC:11) 0.003 lx (50IRE, F1.44, 16/30s, AGC:11)* *Converted value
White Balance	ATW1/ ATW2/ AWC
Maximum shutter	15 fps mode: Max.1/10000s to Max.16/30s 12.5 fps mode: Max.1/10000s to Max.16/25s
Intelligent Auto	On / Off
Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
Dynamic Range	Max.120 dB (Super Dynamic : On, Level 31)
Adaptive Black Stretch	The level can be set in the range of 0 to 255.
Back Light Compensation/High Light Compensation	BLC (Back light compensation) HLC (High light compensation) Off (only when Super dynamic / Intelligent Auto : Off)
Fog Compensation	On / Off (only when Intelligent auto / auto contrast adjust : Off)
Maximum Gain (AGC)	The level can be set in the range of 0 to 11.
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 : 40 m {Approx. 131 ft} (30IRE) 30 m {Approx. 99 ft} (50IRE)
Digital Noise Reduction	The level can be set in the range of 0 to 255.
Panorama	Panorama mode (H: 180 deg.)
Video Motion Detection (VMD)	On / Off, 4 areas available
Scene Change Detection (SCD)	On / Off, 1 areas available
Audio Detection	On / Off
AI Sound Classification	Selectable from Gunshot, Yell, Vehicle horn, Glass break

AI Analytics	<p>AI Video Motion Detection, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection (prior to V2.70), AI Occupancy Detection, AI Scene Change Detection</p> <p>For details : https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software 3rd party applications are also available. https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list</p>
Privacy Zone	<p>On / Off</p> <p>Up to 8 zones available</p>
VIQS	<p>On / Off</p> <p>Up to 8 zones available</p>
Image Rotation	0° (Off) / 90° / 180° (Upside-down) / 270°
Camera Title (OSD)	<p>On / Off</p> <p>Up to 40 characters</p> <p>Up to 2 Lines (alphanumeric characters, marks)</p>
Focus Adjustment	—

Lens

Optical zoom	1x
Extra zoom	max 5x (when resolution is 640x360)
Focal length	3.1 mm {1/8 inches}
Angular Field of View	Horizontal : 108°, Vertical : 56°
Maximum Aperture Ratio	1 : 1.4
Focus range	3 m {9.84 ft} – ∞

DORI

Detect (25ppm / 8ppf)	48.4 m / 158.7 ft
Observe (62.5ppm / 19ppf)	19.3 m / 63.5 ft
Recognize (125ppm / 38ppf)	9.7 m / 31.7 ft
Identify (250ppm / 76ppf)	4.8 m / 15.9 ft

System on Chip (SoC)

System on Chip (SoC)	Ambarella CV2
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Adjusting Angle

Adjusting Angle	<p>Camera 1, 2, 3, 4 :</p> <p>Horizontal : ±125° (Adjust by horizontal (PAN) angle)</p> <p>Vertical : +10° to +105° (Adjust by vertical (TILT) angle)</p> <p>Yaw : ±90° (Adjust by azimuth (YAW) angle)</p> <p>Twist : ±30°</p> <p>*The above is the adjustable range of a single camera. The adjustable range of each camera varies according to the positional relationship with other cameras.</p>
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Browser GUI

Camera Control	Brightness, AUX On / Off
Audio	<p>Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High</p> <p>Audio Output : On / Off Volume adjustment : Low / Middle / High</p>
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese

Browser	Microsoft Edge, Firefox, Google Chrome
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Network	
Network IF	10Base-T / 100Base-TX / 1000Base-T, RJ45 connector
Resolution H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode] 3328x1872 / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180
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. Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off
Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC : 64 kbps / 96 kbps / 128 kbps
Audio Transmission Mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, LLDP, MQTT IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, LLDP, MQTT
No. of Simultaneous Users	Up to 24 users (Depends on network conditions)
Secure	FIPS 140-2 level 3 (NXP® EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed, HTTPS, User authentication, Digest authentication, Host authentication, IEEE802.1X, System log, Image transmission log, Brute-force protection, Alteration detection, Signed Firmware
SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card : microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB microSD memory card : 2 GB
Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
ONVIF® Profile	G / M / S / T

Alarm	
Alarm Source	3 terminals input, VMD alarm, SCD alarm, Command alarm, Audio detection alarm
Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output

Input/Output	
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Audio input	<p>ø3.5 mm stereo mini jack</p> <p>For microphone input : 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 kΩ (unbalanced) Supply voltage : 2.4 V ±0.5 V</p> <p>For line input : Input level: Approx. -10 dBV</p>
Audio Output	<p>ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV</p>
External I/O Terminals	<p>ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ ALARM OUT/ AUX OUT) (x1)</p>
Monitor Output	-
Wi-Fi USB Adapter	Yes (for adjustment)

General	
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035
Power Source and Power Consumption	<p>PoE+ (IEEE802.3at compliant): DC 54 V: 470 mA/Approx. 25.4 W (Class 4 device)</p>
Ambient Operating Temperature	<p>-40 °C to +60 °C*7 {-40 °F to 140 °F} (Power On range: -20 °C to +60 °C {-4 °F to 140 °F}) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C(165 °F)</p>
Ambient Operating Humidity	10 to 100 % (no condensation)
Anti-Condensation System	Temish element + moisture absorption gel
Water and Dust Resistance	IP67/IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Wind Resistance	Up to 40 m/s {approx. 89 mph}
Other standard support	NEMA TS 2 (2.2.7-2.2.9)
Dimensions	<p>When using the attachment plate only : ø300 mm × 90 mm (H) {ø11-13/16 inches ×3-17/32 inches (H)}</p>
Mass (approx.)	When using the attachment plate only : Approx. 3.3 kg {7.28 lbs}
Finish	<p>Main body : Aluminum die cast, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : PC resin, Clear</p>

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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OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\)](http://i-pro.com).



WV-QWL501-W
Mount Bracket



WV-QSR503M1-W
Mount Bracket



WV-QSR503F1-W
Mount Bracket



WV-QSR503-W
Mount Bracket



WV-QPL500-W
Mount Bracket



WV-QJB503-W
Base Bracket



WV-QCN500-W
Mount Bracket



WV-QCL501-W
Mount Bracket



WV-QCL101-W
Mount Bracket



PPRM35AW
Parapet Mount Bracket



WV-SDB256G
i-PRO SD Memory Card



WV-SDB128G
i-PRO SD Memory Card



WV-SDB064G
i-PRO SD Memory Card



WV-SDB032G
i-PRO SD Memory Card



WV-QDC501G
Dome Cover



WV-QDC501C
Dome Cover



WV-QCA501A
I/O Cable



WV-PM500
Compact microphone
unit for surveillance
cameras

APPEARANCE

