

# WV-S2236LGA-B

2MP (1080p) IR Indoor Vandal Dome Network Camera with AI Engine

## S-series 2MP Network camera with AI engine

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- 2MP Indoor vandal dome camera
- Up to 2 Edge AI analytic apps
- Built-in IR-LED(50m, 164ft)
- IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant



# SPECIFICATIONS

| Camera                                          |                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                    | Approx. 1/2.8 type CMOS image sensor                                                                                                                                                                                                                                                                         |
| Scanning Area                                   | 5.57 mm (H) × 3.13 mm (V)<br>{7/32 inches (H) × 1/8 inches (V)}                                                                                                                                                                                                                                              |
| Minimum Illumination                            | Color :<br>0.018 lx (30IRE, F1.3, 1/30s, AGC:11)*<br>0.025 lx (50IRE, F1.3, 1/30s, AGC:11)<br>0.0016 lx (50IRE, F1.3, 16/30s, AGC:11)*<br><br>BW :<br>0 lx (50IRE, F1.3, 1/30s, AGC:11, IR LED: On)<br>0.017 lx (50IRE, F1.3, 1/30s, AGC:11)<br>0.0011 lx (50IRE, F1.3, 16/30s, AGC:11)*<br>*Converted value |
| White Balance                                   | ATW1 / ATW2 / AWC                                                                                                                                                                                                                                                                                            |
| Shutter Speed                                   | [60 fps Mode] 1/60 Fix to 1/10000 Fix<br>[30fps/15fps mode] 1/30 Fix to 1/10000 Fix<br>[50 fps Mode] 1/50 Fix to 1/10000 Fix<br>[25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix                                                                                                                                 |
| Maximum Shutter                                 | [60 fps mode] Max. 1/4000 s to Max. 16/30 s<br>[50 fps mode] Max. 1/4000 s to Max. 16/25 s<br>[30 fps mode] Max. 1/4000 s to Max. 16/30 s<br>[25 fps mode] Max. 1/4000 s to Max. 16/25 s<br>[15 fps mode] Max. 1/4000 s to Max. 16/30 s<br>[12.5 fps mode] Max. 1/4000 s to Max. 16/25 s                     |
| Intelligent Auto                                | On / Off                                                                                                                                                                                                                                                                                                     |
| Super Dynamic                                   | On / Off, The level can be set in the range of 0 to 31.                                                                                                                                                                                                                                                      |
| Dynamic Range                                   | Max.144 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,<br>Maximum irradiation distance : 50 m {Approx. 164 ft} (30IRE) , 35 m {Approx. 116 ft} (50IRE)                                                                                                                                                                                   |
| Digital Noise Reduction                         | The level can be set in the range of 0 to 255.                                                                                                                                                                                                                                                               |
| 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                         | Gunshot, Yell, Vehicle horn, Glass break                                                                                                                                                                                                                                                                     |

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

| Lens                   |                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical zoom           | 3.1x (Motorized zoom / Motorized Focus)                                                                                                                                           |
| Extra zoom             | 3.1x - 9.3x (when resolution is 640 x 360)                                                                                                                                        |
| Focal length           | 2.9 - 9 mm {1/8 inches - 11/32 inches}                                                                                                                                            |
| Angular Field of View  | [16 : 9 mode] Horizontal : 36° (TELE) - 114° (WIDE), Vertical : 20° (TELE) - 60° (WIDE)<br>[ 4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 20° (TELE) - 60° (WIDE) |
| Maximum Aperture Ratio | 1 : 1.3 (WIDE) - 1 : 2.5 (TELE)                                                                                                                                                   |
| Focus range            | 0.3 m {11-13/16 inches} - ∞                                                                                                                                                       |

| DORI                       |                                                  |
|----------------------------|--------------------------------------------------|
| Detect (25ppm / 8ppf)      | Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft |
| Observe (62.5ppm / 19ppf)  | Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft  |
| Recognize (125ppm / 38ppf) | Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft    |
| Identify (250ppm / 76ppf)  | Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft     |

| System on Chip (SoC) |                 |
|----------------------|-----------------|
| System on Chip (SoC) | Ambarella CV25M |

| Adjusting Angle |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Adjusting Angle | Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100° |

| Browser GUI               |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Camera Control            | Brightness, AUX On / Off                                                                                                               |
| Audio                     | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High<br>Audio Output : On / Off Volume adjustment : Low / Middle / High |
| GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese                                                      |
| Browser                   | Microsoft Edge, Firefox, Google Chrome                                                                                                 |

| Network                               |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network IF                            | 10Base-T / 100Base-TX, RJ45 connector                                                                                                                                                                                                                                                                                    |
| Resolution H.265/ H.264/ JPEG (MJPEG) | [16:9 mode (60 fps mode)], [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)], [16:9 mode (25 fps mode)] : 1920x1080, 1280x720, 640x360, 320x180<br>[4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] : 1280x960, VGA, QVGA<br>[4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)]<br>2048x1536, 1280x960, VGA, QVGA |
| H.265/H.264                           | [Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort<br>[Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast                                                                                                                                                                    |
| JPEG                                  | [Image Quality] 10 steps                                                                                                                                                                                                                                                                                                 |

|                               |                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Coding                  | GOP (Group of pictures control): Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced(Fixed GOP 60s w/1s key-frame) / Frame rate control (Variable GOP 4s-16s with frame rate control)<br>*Advanced and Frame rate control are only available with H.265.<br>Smart VQS: 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, FTP, SFTP, MQTT, LLDP<br>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, FTP, SFTP, MQTT, LLDP                                   |
| No. of Simultaneous Users     | Up to 14 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 :<br>Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure<br>JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure<br>Compatible SDXC/SDHC/SD Memory Card :<br>microSDXC memory card: 64 GB, 128 GB, 256 GB, 512 GB<br>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, 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           |                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio input            | ø3.5 mm stereo mini jack<br>For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz))<br>Input impedance : Approx. 2 kΩ (unbalanced)<br>Supply voltage : 2.5 V ±0.5 V<br>For line input : Input level: Approx. -10 dBV |
| Audio Output           | ø3.5 mm stereo mini jack (monaural output)<br>Output impedance : Approx. 600 Ω (unbalanced) , Output level : -20 dBV                                                                                                                                                                                      |
| External I/O Terminals | ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)<br>ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) , ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)                                                                                                                                 |
| Monitor Output         | Yes (for adjustment)<br>Pin jack, NTSC or PAL signal can be output from camera                                                                                                                                                                                                                            |

| General                            |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Safety                             | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1                                                                          |
| EMC                                | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035                                                                        |
| Power Source and Power Consumption | DC power supply : DC12 V 720 mA, Approx. 8.6 W<br>PoE (IEEE802.3af compliant) Device : DC48 V 180 mA, Approx. 8.7 W (Class 0 device) |
| Ambient Operating Temperature      | -10 °C to +50 °C (14 °F to 122 °F)                                                                                                   |
| Shock Resistance                   | IK10 (IEC 62262)                                                                                                                     |
| Ambient Operating Humidity         | 10 to 90 % (no condensation)                                                                                                         |
| Dimensions                         | ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}<br>Dome radius 41.5 mm {1-5/8 inches}                                  |
| Mass (approx.)                     | 570 g {1.26 lbs.}                                                                                                                    |

## 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-QWL506-B  
4-screw Wall Mount  
Bracket



WV-QWL500-B  
Mount Bracket



WV-QPL500-B  
Mount Bracket



WV-QIB500-B  
Mount Bracket



WV-QEM100-B  
Mount Bracket



WV-QCL100-B  
Mount Bracket



WV-Q105A  
Mount Bracket



WV-QCN500-B  
Mount Bracket



WV-PM500  
Compact microphone  
unit



WV-CF5SA  
Dome Cover



WV-QCL101-B  
Mount Bracket



WV-CR1S  
Dome Cover



WV-QDC200C  
Dome Cover



WV-SDB256G  
microSDXCメモリーカ  
ード



WV-SDB128G  
i-PRO SD Memory Card

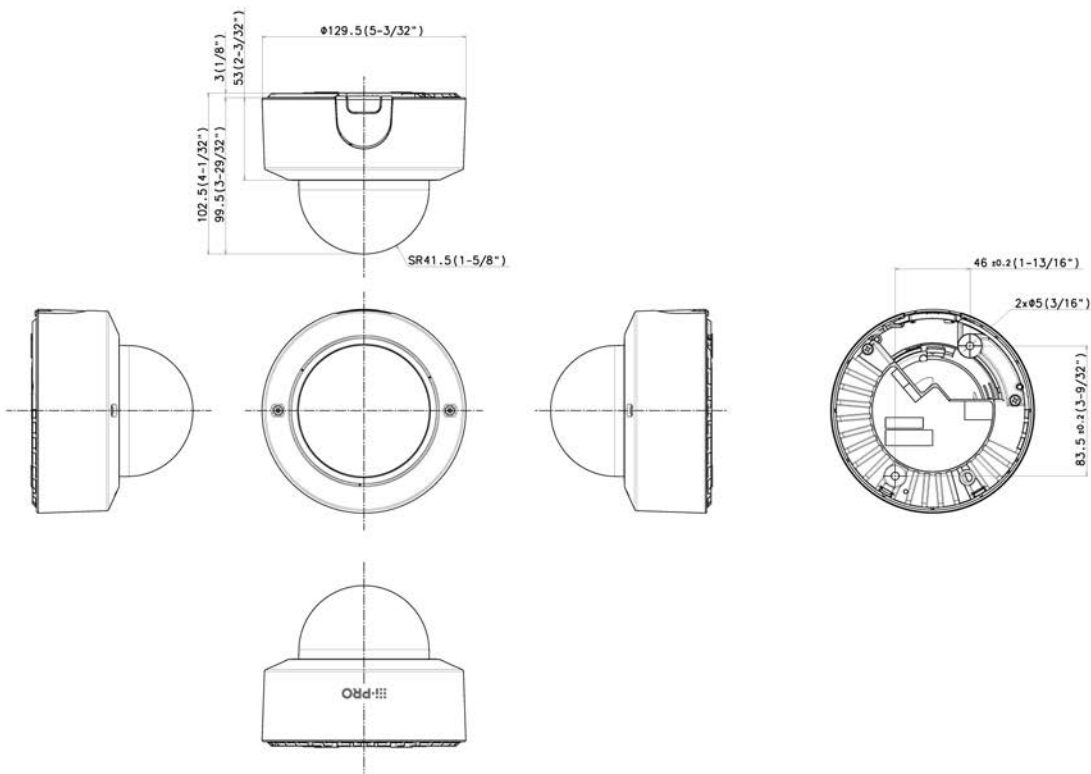


WV-SDB064G  
i-PRO SD Memory Card



WV-SDB032G  
i-PRO SD Memory Card

APPEARANCE



Mass : Approx. 570 g [1.26 lbs]

Unit:mm