

# WV-S35402-F2LG

4MP Outdoor Compact Dome Network Camera with AI engine

## All-in-one Compact dome camera with AI engine and IR-LED



- 4MP Compact dome camera
- Up to 1 Edge AI analytic app
- Discreet design
- Wide angle of view (Horizontal 121°)
- Built-in IR-LED (10m/33ft)
- Built-in microphone
- IP66, 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                                    | 5.12 mm (H)×3.84 mm (V)<br>{3/16 inches (H) × 5/32 inches (V)}   |
| Minimum Illumination                             | Color : 0.19 lx (30IRE, F2.1, 1/30 s) , Color : 0.27 lx (50IRE, F2.1, 1/30 s)<br>BW : 0.16 lx (50IRE, F2.1, 1/30 s) , BW : 0 lx (50IRE, F2.1, 1/30 s with IR LED)  |
| White Balance                                    | ATW1/ ATW2/ AWC  |
| Maximum shutter                                  | 30 fps/ 15 fps mode: Max.1/10000s to Max.16/30s<br>25 fps/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                                    | 132 dB max. (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/ HLC/ Off, The level can be set in the range of 0 to 31.<br>(only when Super Dynamic/ Intelligent Auto: Off)   |
| Fog Compensation                                 | On/ Off, The level can be set in the range of 0 to 8.<br>(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 : 10 m {Approx. 33 ft} (30IRE)* , 7 m {Approx. 23 ft} (50IRE)<br>* Converted value  |
| 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 area available  |
| Audio Detection                                  | On/Off   |
| AI Sound Classification                          | Selectable from Gunshot, Yell, Vehicle horn, Glass break   |
| AI Analytics                                     | AI Video Motion Detection, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection, 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,<br>up to 8 zones available  |
| VIQS   | On/ Off,<br>up to 8 zones available  |
| Image Rotation                                   | 0° (Off) / 90° / 180° (Upside-down) / 270°   |
| Camera Title (OSD)                               | On/ Off, Up to 40 characters, Up to 2 Lines<br>(alphanumeric characters, marks)  |

| Lens                      |   |
|---------------------------|---|
| Optical zoom              | 1x  |
| Extra zoom                | max 4.0 x<br>(when resolution is 640x360)   |
| Digital (Electronic) zoom | -   |
| Focal length              | 2.4mm {3/32inches}  |
| Angular Field of View     | [16:9 mode]<br>Horizontal: 121° , Vertical: 68°<br>[4:3 mode]<br>Horizontal : 121° , Vertical : 91° |
| Maximum Aperture Ratio    | 1 : 2.1   |
| Focus range               | 0.7m{27-9/16 inches}-∞  |
| Aperture range            | F2.1  |

| DORI                       |                |
|----------------------------|----------------|
| Detect (25ppm / 8ppf)      | 29.0m / 95.0ft |
| Observe (62.5ppm / 19ppf)  | 11.6m / 38.0ft |
| Recognize (125ppm / 38ppf) | 5.8m / 19.0ft  |
| Identify (250ppm / 76ppf)  | 2.9m / 9.5ft   |

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

| Adjusting Angle |  |
|-----------------|--|
| Adjusting Angle | Horizontal (PAN) angle: -45°to +45° , Vertical (TILT) angle: 0°to +90°<br>Azimuth (YAW) angle: -90°to +90° |

| Browser GUI               |   |
|---------------------------|---|
| GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
| Browser *1                | Microsoft Edge, Firefox, Google Chrome  |

| Network                                 |  |
|---|--|
| Network IF                              | 10BASE-T/100BASE-TX, RJ45 connector  |
| Resolution                              | [16:9 mode (30 fps mode/25 fps mode)] 2560x1440/ 1920x1080/ 1280x720/ 640x360/ 320x180<br>[16:9 mode (2688x1520 30 fps mode/ 25 fps mode)] 2688x1520* / 1920x1080/ 1280x720/ 640x360/ 320x180<br>[4:3 mode (30 fps mode/ 25 fps mode)] 1280x960/ VGA/ QVGA<br>[4:3 mode (15 fps mode/ 12.5 fps mode)] 2048x1536, 1280x960, VGA, QVGA<br>*Used by super resolution techniques |
| H.265/H.264 Transmission Mode / Type *2 | [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]<br>Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60 seconds with 1 second 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 VIQS] On(High)/On(Low)/Off<br>[Smart P-picture control] On/Off       |
| Audio Compression                       | G.726 (ADPCM): 32 kbps/16 kbps ,<br>G.711: 64 kbps ,<br>AAC-LC: 64kbps/96kbps/128kbps *3   |

|                                   |  |
|-----------------------------------|--|
| 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, FTP, SFTP, MQTT<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, LLDP, FTP, SFTP, MQTT |
| No. of Simultaneous Users         | Up to 14 users<br>(Depends on network conditions)  |
| Secure                            | FIPS 140-2 level 3 (NXPR 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   |
| SDXC/SDHC/SD Memory Card (Option) | 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 (iOS 8.0 or later), Android™ mobile terminals  |
| ONVIF®Profile                     | G / M / S / T  |

## Alarm

|               |  |
|---------------|--|
| Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output |
|---------------|--|

## 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                  | PoE (IEEE802.3af Compliant)  |
| Power Consumption             | PoE DC 48V: 180mA / approx. 8.6W (Class 0 device)  |
| Ambient Operating Temperature | -40 °C to +50 °C {-22 °F to 122 °F}<br>(Power On range: -20 °C to +50 °C {-4 °F to 122 °F})        |
| Ambient Operating Humidity    | 10 % to 100 % (no condensation)  |
| Water and Dust Resistance     | IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant   |
| Shock Resistance              | IK10 (IEC 62262)   |
| Wind Resistance               | Up to 40 m/s {approx. 89 mph}  |
| Dimensions                    | 109 mm (W) x 53 mm (H) x119 mm (D)<br>{4-19/64inches (W) x 2-3/32 inches (H) x 4-11/16 inches (D)} |
| Mass (approx.)                | approx. 475g {1.05 lbs}  |
| Finish                        | Main body: Aluminum die cast, i-PRO white<br>Front panel: PC resin, Smoke                          |
| Other                         | Tamper-resistant enclosure *4  |

## NOTES

\*1 For information on the operation verification of the web browsers, refer to our support website <Control No.: C0132>.

\*2 Transmission for 3 streams can be individually set.

\*3 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity) .

\*4 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

### 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-QWL500-W  
Mount Bracket



WV-QWL500-B  
Mount Bracket



WV-QPL500-W  
Mount Bracket



WV-QPL500-B  
Mount Bracket



WV-QJB502A-W  
Mount Bracket



WV-QJB502A-B  
Mount Bracket



WV-QJB500-W  
Mount Bracket



WV-QJB500-B  
Mount Bracket



WV-QCN500-W  
Mount Bracket



WV-QCN500-B  
Mount Bracket



WV-QAT502-W  
Gangbox Adapter



WV-QAT502-G  
Gangbox Adapter



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-QDC505C  
Dome Cover

# APPEARANCE

