

## WV-U25301-F3L

2MP Outdoor IR Dome Camera

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- 2MP Outdoor dome camera
  - Standard video motion detection using i-VMD
  - Built-in IR LED (42m/138ft)
  - IP66, IK10 certified
  - Built-in FIPS 140-3 Level 3 Certified SecureElement (EdgeLock® SE052F NXP® Semiconductors)
  - NDAA Compliant
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## SPECIFICATIONS

| Camera                                          |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                    | Approx. 1/2.8 type CMOS image sensor                                                                                                                                                                                                                                                                             |
| Scanning Area                                   | 5.57 mm (H) × 3.13 mm (V) {7/32 inches (H) × 1/8 inches (V)}                                                                                                                                                                                                                                                     |
| Minimum Illumination                            | Color :<br>0.07 lx (30IRE, F2.0, 1/30 s, AGC: 11)*<br>0.09 lx (50IRE, F2.0, 1/30 s, AGC: 11)<br>0.006 lx (50IRE, F2.0, 16/30 s, AGC: 11)*<br>BW :<br>0 lx (50IRE, F2.0, 1/30 s, AGC: 11, IR LED: On)<br>0.04 lx (50IRE, F2.0, 1/30 s, AGC: 11)<br>0.003 lx (50IRE, F2.0, 16/30 s, AGC: 11)*<br>* Converted value |
| White Balance                                   | ATW1/ ATW2/ AWC                                                                                                                                                                                                                                                                                                  |
| Maximum Shutter                                 | [30 fps mode] Max. 1/10000 s to Max. 16/30 s<br>[25 fps mode] Max. 1/10000 s to Max. 16/25 s                                                                                                                                                                                                                     |
| Intelligent Auto                                | On/Off                                                                                                                                                                                                                                                                                                           |
| Super Dynamic                                   | On/Off (Range : 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 | Back light compensation (BLC) / High light compensation (HLC) / Off (Range : 0 to 31)<br>*only when Super Dynamic/ Intelligent Auto: Off                                                                                                                                                                         |
| Fog Compensation                                | On/Off (Range : 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:<br>42 m {Approx. 138 ft} (30IRE)*<br>30 m {Approx. 98 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)                                                                                                                                                                                                                                                                                      |
| AI Sound Classification                         | -                                                                                                                                                                                                                                                                                                                |
| Analytics                                       | i-VMD                                                                                                                                                                                                                                                                                                            |
| Maximum No. of Applications                     | 1 (Non AI app)                                                                                                                                                                                                                                                                                                   |
| Privacy Zone                                    | On/Off (Up to 8 zones available)                                                                                                                                                                                                                                                                                 |
| VIQS                                            | On/Off (Up to 8 zones available)                                                                                                                                                                                                                                                                                 |
| Image Rotation                                  | 0° (Off) / 90° / 180° (Upside-down) / 270°                                                                                                                                                                                                                                                                       |
| Camera Title (OSD)                              | On/Off<br>Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)                                                                                                                                                                                                                                    |
| Lens                                            |                                                                                                                                                                                                                                                                                                                  |
| Optical Zoom                                    | -                                                                                                                                                                                                                                                                                                                |
| Digital (electronic) Zoom                       | max 3.0x                                                                                                                                                                                                                                                                                                         |
| Focal Length                                    | 3.2 mm {1/8 inches}                                                                                                                                                                                                                                                                                              |
| Angular Field of View                           | [16:9 mode]<br>Horizontal: 105°<br>Vertical: 57°<br>[4:3 mode]<br>Horizontal: 77°<br>Vertical: 57°                                                                                                                                                                                                               |
| Adjusting Angle (Fixed camera)                  | Horizontal(PAN) angle: -175 ° to +175 °<br>Vertical(TILT) angle: -30 ° to +80 °<br>Azimuth(YAW) angle: -100 ° to +100 °-                                                                                                                                                                                         |
| Maximum Aperture Ratio                          | 1:2.0                                                                                                                                                                                                                                                                                                            |
| Focus Range                                     | 1.0m {39-3/8 inches} – ∞                                                                                                                                                                                                                                                                                         |
| Aperture Range                                  | F2.0                                                                                                                                                                                                                                                                                                             |
| DORI                                            |                                                                                                                                                                                                                                                                                                                  |
| Detect (25ppm / 8ppf)                           | 29.5m {96.7ft}                                                                                                                                                                                                                                                                                                   |
| Observe (62.5ppm / 19ppf)                       | 11.8m {38.7ft}                                                                                                                                                                                                                                                                                                   |
| Recognize (125ppm / 38ppf)                      | 5.9m {19.3ft}                                                                                                                                                                                                                                                                                                    |
| Identify (250ppm / 76ppf)                       | 2.9m {9.7ft}                                                                                                                                                                                                                                                                                                     |
| System on Chip                                  |                                                                                                                                                                                                                                                                                                                  |

|                                        |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System on Chip (SoC)                   | Ambarella S6LM                                                                                                                                                                                                                                                                                                                                |
| 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                             | [16:9mode(30fps mode)][16:9mode(25fps mode)]<br>1920x1080/1280x720/640x360/320x180<br>[4:3mode(30fps mode)][4:3mode(25fps mode)]<br>1280x960/640x480/320x240                                                                                                                                                                                  |
| H.265/H.264 Transmission Priority/Type | [Transmission priority]<br>Constant bit rate/ VBR/ Frame rate/ Best effort<br>[Transmission type]<br>Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast                                                                                                                                                                                    |
| No. of Stream                          | 4                                                                                                                                                                                                                                                                                                                                             |
| JPEG (MJPEG) Image Quality             | 10 steps: 0(SUPER FINE) - 9(LOW)                                                                                                                                                                                                                                                                                                              |
| 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>[Auto VQoS]<br>On/ Off                           |
| Audio Compression Method               | Not Applicable                                                                                                                                                                                                                                                                                                                                |
| 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, LLDP, MQTT<br>IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMPv3, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, FTP, SFTP, LLDP, MQTT |
| No. of Simultaneous Users              | Up to 14 users (Depends on network conditions)                                                                                                                                                                                                                                                                                                |
| Secure                                 | FIPS 140-3 level 3 (NXP® EdgeLock® SE052F).<br>Device Certificate GlobalSign® pre-installed, HTTPS,<br>User authentication, digest authentication, Host authentication,<br>IEEE802.1X, System log, Image transmission log, brute-force protection,<br>Alteration Detection, Secure boot, Signed firmware                                      |
| 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<br>microSD memory card: 2 GB                                                                                                                                                                                                          |
| Mobile Terminal Compatibility          | iPad / iPhone (iOS 8.0 or later), Android™ terminals                                                                                                                                                                                                                                                                                          |
| ONVIF@Profile                          | G / S / T                                                                                                                                                                                                                                                                                                                                     |
| Alarm                                  |                                                                                                                                                                                                                                                                                                                                               |
| Alarm Source                           | VMD alarm, SCD alarm, Command alarm                                                                                                                                                                                                                                                                                                           |
| Alarm Actions                          | SDXC/SDHC/SD memory recording, E-mail notification,<br>HTTP alarm notification Indication on browser, TCP alarm notification output                                                                                                                                                                                                           |
| Input/Output                           |                                                                                                                                                                                                                                                                                                                                               |
| Audio Input                            | [For microphone input]<br><br>[For line input]<br>-                                                                                                                                                                                                                                                                                           |
| Audio Output                           | -                                                                                                                                                                                                                                                                                                                                             |
| External I/O Terminals                 | -                                                                                                                                                                                                                                                                                                                                             |
| Monitor Output                         | -                                                                                                                                                                                                                                                                                                                                             |
| General                                |                                                                                                                                                                                                                                                                                                                                               |
| Safety                                 | UL (UL62368-1 3Ed), c-UL (CAN/CSA C22.2 NO.62368-1-19), IEC62368-1 3Ed.                                                                                                                                                                                                                                                                       |
| EMC                                    | FCC Part15 Subpart B ClassA, ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035                                                                                                                                                                                                                                                                 |
| Power Source / Power Consumption       | [Power Source]<br>PoE (IEEE802.3af Compliant)<br>[Power Consumption]<br>PoE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device)                                                                                                                                                                                                                 |
| Ambient Operating Temperature          | -30 °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                             | ø109 mm x 62 mm (H) {ø4-9/32 inches x 2-7/16 inches (H)}<br>Dome radius 30.5 mm {1-3/16 inches}                                                                                                                                                                                                                                               |
| Mass (approx.)                         | Approx. 280 g {0.62 lbs}                                                                                                                                                                                                                                                                                                                      |
| Finish                                 | Main body: Aluminum die cast, i-PRO white<br>PC resin, i-PRO white<br>Outer fixing screws: Stainless steel (Corrosion-resistant treatment)<br>Dome cover: PC resin, Clear                                                                                                                                                                     |
| Easy Kitting                           | Supported                                                                                                                                                                                                                                                                                                                                     |
| Other                                  | Tamper-resistant enclosure *<br>* Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.                                                                                                                                                     |

## NOTES

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

### 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 any third-party products (including applications) 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 \(i-pro.com\)](#).



WV-QWL500-W  
Mount Bracket



WV-QPL500-W  
Mount Bracket



WV-QJB502A-W  
Mount Bracket



WV-QJB500-W  
Mount Bracket



WV-QCN500-W  
Mount Bracket



WV-QCL101-W  
Mount Bracket



WV-QCL100-W  
Mount Bracket



WV-QAT502-W  
Gangbox Adapter



WV-Q105A  
Mount Bracket



WV-QDC510G  
Dome Cover



WV-QDC510C  
Dome Cover



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



WJ-PU201P  
PoE Injector



WJ-PU201F/G  
PoE Injector



WJ-PU201/G  
PoE Injector

APPEARANCE

