

# WV-X25300-V3LN

2MP Vandal Resistant Outdoor Dome Network Camera with AI engine

**X-series dome camera with powerful cutting edge AI**



- 2MP Outdoor Vandal Dome camera
- Up to 9 Edge AI analytic apps
- Compatible with AI On-site learning app
- Enables AI image analysis on non-AI cameras (with AI Processing Relay app)
- IP66, IP67, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

[Learn More](#)

# 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>0.007 lx (30IRE, F1.3, 1/30s, AGC:11)*<br>0.009 lx (50IRE, F1.3, 1/30s, AGC:11)<br>0.0006 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>0.005 lx (50IRE, F1.3, 1/30s, AGC:11)<br>0.0004 lx (50IRE, F1.3, 16/30s, AGC:11)*<br>*Converted value |
| White Balance                                   | ATW1/ ATW2/ AWC  |
| Shutter Speed                                   | [60 fps mode]<br>1/60 Fix to 1/10000 Fix<br>[30 fps/ 15 fps mode]<br>1/30 Fix to 1/10000 Fix<br>[50 fps mode]<br>1/50 Fix to 1/10000 Fix<br>[25 fps/ 12.5 fps mode]<br>1/25 Fix to 1/10000 Fix   |
| Maximum Shutter                                 | [60 fps mode]<br>Max. 1/4000 s to Max. 16/30 s<br>[30 fps/ 15 fps mode]<br>Max. 1/4000 s to Max. 16/30 s<br>[50 fps mode]<br>Max. 1/4000 s to Max. 16/25 s<br>[25 fps/ 12.5 fps mode]<br>Max. 1/4000 s to Max. 16/25 s   |
| Intelligent Auto                                | On/Off   |
| Super Dynamic                                   | On/Off (Range : 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 (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) /<br>Auto1(IR Light Off) / Auto2(IR Light On) / Auto3(SCC)   |
| IR Illumination                                 | High/ Middle/ Low/ Off<br>Maximum irradiation distance:<br>70 m {Approx. 230 ft} (30IRE)*<br>50 m {Approx. 164 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<br>4 areas available   |
| Scene Change Detection (SCD)                    | On/ Off<br>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 Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection (prior to V3.30), AI Occupancy Detection, AI Scene Change Detection, AI On-site Learning, Ai Processing Relay<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<br>Color: gray/white/blue/green/red/black, or mosaic   |
| VIQS                    | On/Off<br>Up to 8 zones available  |
| Image Rotation          | 0° (Off) / 90° / 180° (Upside-down) / 270°   |
| Image Stabilizer        | On/Off (Built-in gyro sensor)<br>Available only in the 30 fps mode   |
| Camera Title (OSD)      | On/Off<br>Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)  |

| Lens                      |  |
|---------------------------|--|
| Optical Zoom              | 3.1x (Motorized zoom / Motorized Focus)  |
| Extra Zoom                | max 9.3x<br>(3.1x - 9.3x when resolution is 640x360)   |
| Digital (electronic) Zoom | -  |
| Focal Length              | 2.9 mm – 9 mm<br>{1/8 inches – 11/32 inches}   |
| Angular Field of View     | [16:9 mode]<br>Horizontal : 36 ° (TELE) - 113 ° (WIDE)<br>Vertical : 20 ° (TELE) - 60° (WIDE)<br>[4:3 mode]<br>Horizontal : 26 ° (TELE) - 82 ° (WIDE)<br>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} - ∞  |
| Aperture Range            | F1.3 - close   |

| DORI                       |   |
|----------------------------|---|
| Detect (25ppm / 8ppf)      | 25.4m {83.4ft} (WIDE) 118.2m {387.7ft} (TELE) |
| Observe (62.5ppm / 19ppf)  | 10.2m {33.4ft} (WIDE) 47.3m {155.1ft} (TELE)  |
| Recognize (125ppm / 38ppf) | 5.1m {16.7ft} (WIDE) 23.6m {77.5ft} (TELE)    |
| Identify (250ppm / 76ppf)  | 2.5m {8.3ft} (WIDE) 11.8m {38.8ft} (TELE)     |

| System on Chip       |                |
|----------------------|----------------|
| System on Chip (SoC) | Ambarella CV52 |

| Adjusting Angle |   |
|-----------------|---|
| Adjusting Angle | Horizontal (PAN) angle: -194°to +166°<br>Vertical (TILT) angle: -30°to +85°<br>Azimuth (YAW) angle: ±100° |

| 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,<br>RJ45 connector |

|                                       |  |
|---------------------------------------|--|
| Resolution                            | [16:9 mode (60 fps mode)] [16:9 mode (50 fps mode)]<br>1920x1080/ 1280x720/ 640x360/ 320x180<br>[16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)]<br>1920x1080/ 1280x720/ 640x360/ 320x180<br>[4:3 mode (60 fps mode)] [4:3 mode (50 fps mode)]<br>2048x1536※/ 1280x960/ VGA/ QVGA<br>[4:3 mode (30 fps mode)] [4:3 mode (25 fps mode)]<br>2048x1536※/ 1280x960/ VGA/ QVGA |
| H.265/H.264 Transmission Mode/Type *2 | [Transmission Mode]<br>Transmission priority:<br>Constant bit rate/ VBR/ Frame rate/ Best effort<br>[Transmission Type]<br>Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast   |
| 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)/ Frame rate control (Variable GOP 4s-16s with frame rate control)<br>*Frame rate control is only available with H.265.<br>[Smart VIQS]<br>On (High)/ On (Low)/ Off<br>[Smart P-picture control]<br>On/Off  |
| Audio Compression Method *3           | 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, 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, IGMP, 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 140-2 level 3 (NXP® EdgeLock® SE050F),<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 / M  |

| Alarm         |  |
|---------------|--|
| Alarm Source  | 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              |  |
|---------------------------|--|
| Audio Input *4            | ø3.5 mm stereo mini jack   |
| Audio Output *4           | ø3.5 mm stereo mini jack (Audio output is monaural.)<br>Output impedance: Approx. 600 Ω (unbalanced)<br>Output level: -20 dBV  |
| External I/O Terminals *4 | ALARM IN1<br>(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)<br>ALARM IN2 (Alarm input 2/ ALARM OUT) (x1)<br>ALARM IN3 (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),<br>CE, IEC62368-1        |
| EMC     | FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035 |

|                                |   |
|--------------------------------|---|
| Power Source/Power Consumption | [Power Source]<br>DC12 V *4, PoE+ (IEEE802.3at compliant)<br>[Power Consumption]<br>DC12 V : 1.2 A / Approx. 14.2 W<br>PoE+ DC 54 V : 260 mA / Approx. 14.0 W (Class 4 device)  |
| Ambient Operating Temperature  | -40 °C to +55 °C {-40 °F to +131 °F}<br>(Power On range: -30 °C to +55 °C {-22 °F to +131 °F})  |
| Ambient Operating Humidity     | 10 % to 100 % (no condensation)   |
| Water and Dust Resistance      | IP66/ IP67 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant  |
| Shock Resistance               | 50J(IEC 60068-2-75 compliant), IK10(IEC62262)   |
| Wind Resistance                | Up to 40 m/s {approx. 89 mph}   |
| Dimensions                     | ø154 mm × 105 mm (H) {ø6-1/16 inches ×4-1/8 inches (H)}<br>Dome radius 42 mm {1-21/32 inches}<br>(excluding an attachment for the conduit portion)                              |
| Mass (approx.)                 | Approx. 1.1 kg {2.43 lbs}<br>(excluding an attachment for the conduit portion)  |
| Finish                         | Main body: Aluminum die cast, i-PRO white<br>Outer fixing screws:<br>Stainless steel (Corrosion-resistant treatment)<br>Dome cover:<br>PC resin, Clear(with ClearSight coating) |

## NOTES

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

\*2 Transmission for 4 streams can be individually set.

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

\*4 When using with them, WV-QCA501A cable is required.

### 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-QWL500-W  
Mount Bracket



WV-QSR501M1-W  
Mount Bracket



WV-QSR501M-W  
Mount Bracket



WV-QSR501F1-W  
Mount Bracket



WV-QSR501F-W  
Mount Bracket



WV-QSR501-W  
Mount Bracket



WV-QSR500-W  
Sun Shade



WV-QPL500-W  
Mount Bracket



WV-QJB504-W  
Base Bracket



WV-QJB501-W  
Base Bracket



WV-QJB500-W  
Mount Bracket



WV-QEM500-W  
Mount Bracket



WV-QCN500-W  
Mount Bracket



WV-QCL501-W  
Mount Bracket



WV-QCL101-W  
Mount Bracket



WV-QCL100-W  
Mount Bracket



WV-Q105A  
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-QCA501A  
I/O Cable



WV-QCA500A  
RJ45 Ethernet Cable



WV-QDC504C  
Dome Cover



WV-CW7SN  
Dome cover



WV-CW7S  
Dome cover

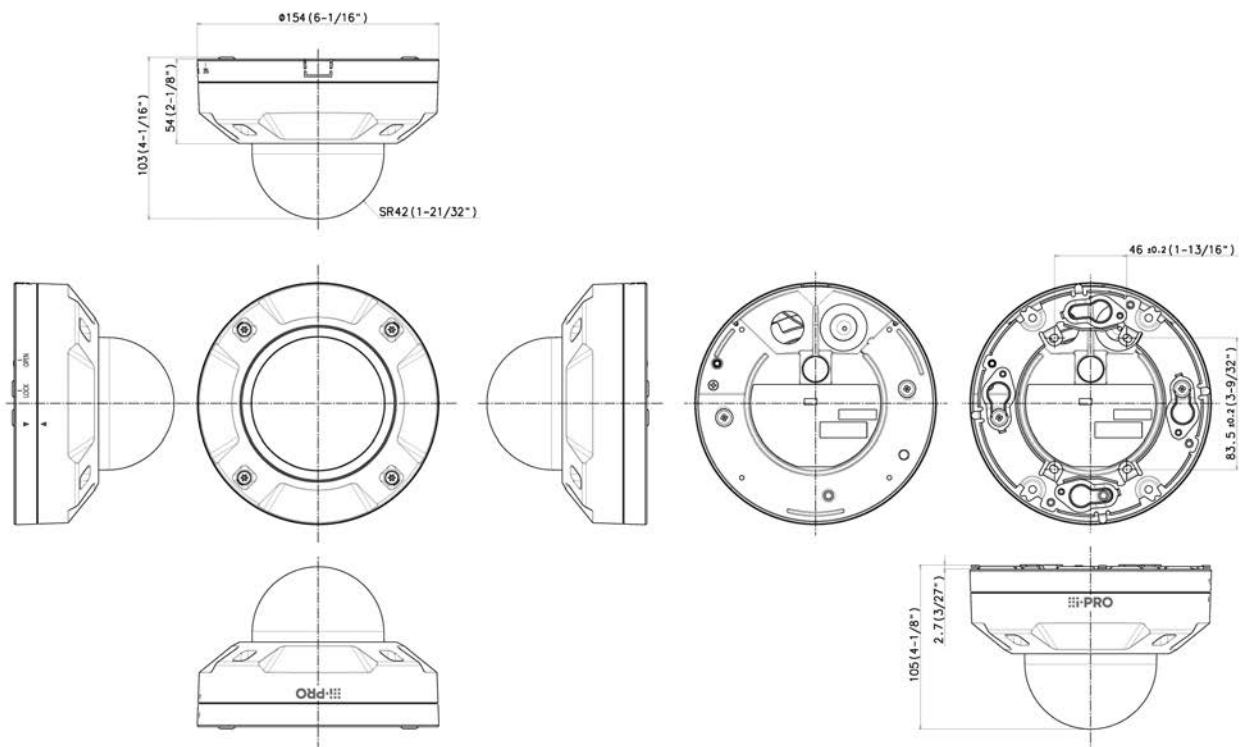


WV-CW7CN  
Dome cover



WV-PM500  
Compact microphone  
unit for surveillance  
cameras

## APPEARANCE



側面図/Side-view: 投影面積/Projected area  
0.011 (m<sup>2</sup>)  
Mass: Approx. 1.1 kg (2.43 lbs)  
(Excluding attachment for the conduit portion)

With Attachment plate

Unit:mm