

# WV-X15700-V2LN

4K Outdoor Bullet Network Camera with AI engine

## X-series bullet camera with powerful cutting edge AI



- 4K Bullet 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



# SPECIFICATIONS

| Camera  |  |
|---|--|
| Image Sensor                                    | Approx. 1/1.8 type CMOS image sensor   |
| Scanning Area                                   | 7.68 mm (H) × 4.32 mm (V) {5/16 inches (H) × 5/32 inches (V)}  |
| Minimum Illumination                            | Color : 0.04 lx (30IRE, F1.5, 1/30s)<br>Color : 0.06 lx (50IRE, F1.5, 1/30s)<br>BW : 0.03 lx (50IRE, F1.5, 1/30s)<br>BW : 0 lx (50IRE, F1.5, 1/30s with IR LED)  |
| 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. 132 dB<br>(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, 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<br>Up to 8 zones available  |
| 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              | 2.0x<br>(Motorized zoom / Motorized Focus)   |
| Extra Zoom                | max 12.0x<br>(2.0x - 12.0x when resolution is 640x360)                                     |
| Digital (electronic) Zoom | '-   |
| Focal Length              | 4.3 mm – 8.6 mm<br>{5/32 inches – 11/32 inches}  |
| Angular Field of View     | [16:9 mode]<br>Horizontal : 53° (TELE) - 104° (WIDE)<br>Vertical : 30° (TELE) - 56° (WIDE) |
| Maximum Aperture Ratio    | 1:1.5(WIDE) - 1:2.4(TELE)  |
| Focus Range               | 1.0 m {39-3/8 inches} - ∞  |
| Aperture Range            | F1.5 - close   |

## DORI

|                            |  |
|----------------------------|--|
| Detect (25ppm / 8ppf)      | 60.0m {196.9ft} (WIDE) 154.0m {505.4ft} (TELE) |
| Observe (62.5ppm / 19ppf)  | 24.0m {78.7ft} (WIDE) 61.6m {202.1ft} (TELE)   |
| Recognize (125ppm / 38ppf) | 12.0m {39.4ft} (WIDE) 30.8m {101.1ft} (TELE)   |
| Identify (250ppm / 76ppf)  | 6.0m {19.7ft} (WIDE) 15.4m {50.5ft} (TELE)     |

## System on Chip

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

## Adjusting Angle

|                  |   |
|------------------|---|
| Ceiling mounting | Horizontal : ±180° (PAN rotation part)<br>Vertical : 0° to 100° (TILT rotation part)<br>Yaw : -190° to +100° (YAW rotation part)  |
| Wall mounting    | Horizontal : ±100° (TILT rotation part)*<br>Vertical : ±100° (TILT rotation part)*<br>Yaw : -190° to +100° (YAW rotation part)<br>* You can change between horizontal and vertical angels by adjusting the PAN rotation part. |

## Browser GUI

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

| Network                               |   |
|---------------------------------------|---|
| Network IF                            | 10BASE-T/100BASE-TX, RJ45 connector   |
| Resolution                            | [16:9 mode (60 fps mode)] [16:9 mode (50 fps mode)]<br>3840x2160/ 2560x1440<br>[16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)]<br>3840x2160/2560x1440/1920x1080/1280x720/640x360/320x180  |
| 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<br>G.711: 64 kbps<br>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),<br>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,<br>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)  |
| 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/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               | IK10(IEC 62262)  |
| Wind Resistance                | Up to 40 m/s {approx. 89 mph}  |
| Dimensions                     | 133 mm (W) x 133 mm (H) x 383 mm (D)<br>{5-1/4 inches(W) x 5-1/4 inches(H) x 15-3/32 inches (D)}   |
| Mass (approx.)                 | Approx. 2.5 kg {5.6 lbs}   |
| Finish                         | Main body: Aluminum die cast and resin, i-PRO white<br>Outer fixing screws: Stainless steel (Corrosion-resistant treatment)<br>Front panel: 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-QPL500-W  
Mount Bracket



WV-QCN500-W  
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

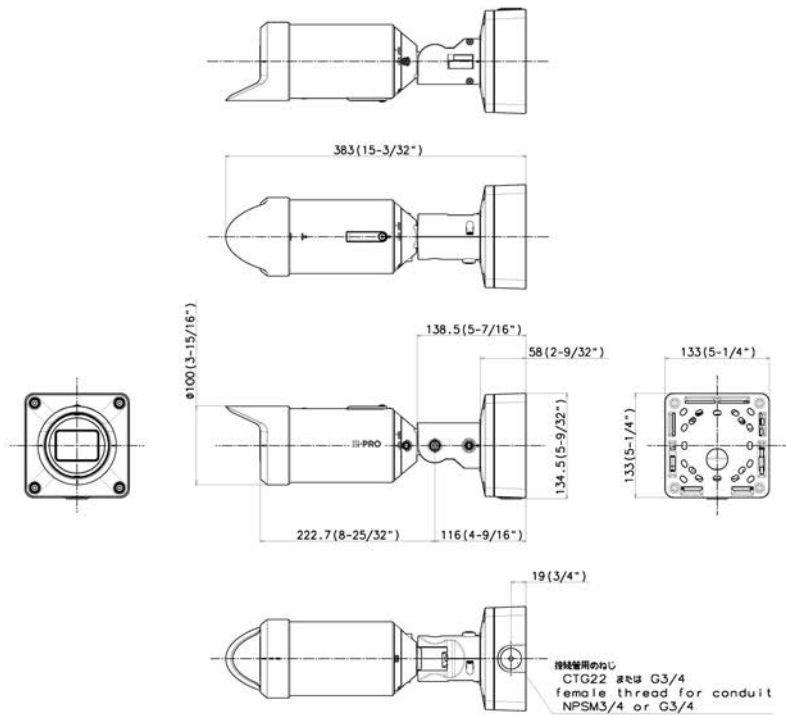


WV-QCA500A  
RJ45 Ethernet Cable



WV-PM500  
Compact microphone  
unit for surveillance  
cameras

# APPEARANCE



| Model number    |
|-----------------|
| WV-X15300-V3L   |
| WV-X15300-V3LN  |
| WV-X15300-V3LNJ |
| WV-X15500-V3L   |
| WV-X15500-V3LN  |
| WV-X15500-V3LNJ |
| WV-X15600-V2L   |
| WV-X15600-V2LN  |
| WV-X15700-V2L   |
| WV-X15700-V2LN  |
| WV-X15700-V2LNJ |

|               | 投影面積/Projected area       |
|---------------|---------------------------|
| 平面図/Top-view  | 0.033 (m <sup>2</sup> )   |
| 側面図/Side-view | 0.030 (m <sup>2</sup> )   |
| Mass          | Approx. 2.5 kg [5.52 lbs] |

