

WV-X67710-Z3L1

4K AI Rugged PTZ Camera with IR (30x zoom)

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- 4K 30x Aero PTZ camera
 - Up to 3 Edge AI analytic apps
 - AI Auto tracking
 - 24V AC/DC Power supply
 - Built-in IR-LED (350m/1148ft)
 - Wind resistance (Up to 270km/h, 167mph)
 - Wide range of ambient temperatures supported (-50 °C to +60 °C {-58 °F to +140 °F})
 - IP66, IP68, IK10 certified
 - Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F 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 : 0.13 lx (30IRE, F1.8, 1/30s, AGC:11) Color : 0.19 lx (50IRE, F1.8, 1/30s, AGC:11) BW : 0.10 lx (50IRE, F1.8, 1/30s, AGC:11) BW : 0 lx (50IRE, F1.8, 1/30s, AGC:11 with IR LED) |
| White Balance | ATW1/ ATW2/ AWC |
| Shutter Speed | [30 fps mode] 1/30 Fix to 1/10000 Fix [25 fps mode] 1/25 Fix to 1/10000 Fix |
| Maximum Shutter | [30 fps mode] Max. 1/4000 s to Max. 16/30 s [25 fps mode] 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 (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) *only when Super Dynamic/ Intelligent Auto: Off |
| Fog Compensation | On/Off (Range : 0 to 8) *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) |
| IR LED Light | [DC24V, AC24V, PoE++ Type4 Class 8] Maximum irradiation distance: 350 m {Approx. 1148 ft} (30IRE)* 250 m {Approx. 820 ft} (50IRE) * Converted value [PoE++ Type3 Class 6] - |
| 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 |
| Analytics | AI Video Motion Detection, AI Face Detection, AI Privacy Guard, AI People Detection, AI Vehicle Detection, AI Occupancy Detection For details: https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software 3rd party applications are also available. https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list |
| Max. Number of Applications | 3 |

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|--------------------|---|
| Privacy Zone | On/Off Up to 32 zones available |
| VIQS | On/Off Up to 8 zones available |
| Image Stabilizer | On/Off (Built-in gyro sensor) Available only in the 30/25 fps mode |
| Camera Title (OSD) | On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks) |

Lens

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|---------------------------|---|
| Optical Zoom | 30x |
| Extra Zoom | - |
| Digital (electronic) Zoom | 30x - 480x |
| Focal Length | 4.5 mm - 135 mm {3/16 inches - 5-5/16 inches} |
| Angular Field of View | [16:9 mode] Horizontal: 2.5° (TELE) - 62° (WIDE) Vertical: 1.4° (TELE) - 37° (WIDE) |
| Adjusting Angle | (PAN) angle : 360° turning (TILT) angle : -90° - +90° (YAW) angle : ±0° |
| Maximum Aperture Ratio | 1:1.8 (WIDE) - 1:4.7 (TELE) |
| Focus Range | 3.0 m {118-1/8 inches} - ∞ |
| Aperture Range | F1.8 - Close |

DORI

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|----------------------------|--|
| Detect (25ppm / 8ppf) | 3519.7 m {11547.6 ft} (TELE) 127.8 m {419.3 ft} (WIDE) |
| Observe (62.5ppm / 19ppf) | 1407.9 m {4619.0 ft} (TELE) 51.1 m {167.7 ft} (WIDE) |
| Recognize (125ppm / 38ppf) | 703.9 m {2309.5 ft} (TELE) 25.6 m {83.9 ft} (WIDE) |
| Identify (250ppm / 76ppf) | 352.0 m {1154.8 ft} (TELE) 12.8 m {41.9 ft} (WIDE) |

System on Chip

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| System on Chip (SoC) | Ambarella CV22 |
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Pan/Tilt

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| Panning Range | 360° Endless panning |
| Panning Speed | Manual : Approx. 0.065 °/s - 100 °/s * *Except when frozen Preset : Up to approx. 200 °/s * *Except when leaning forward, frozen, or in strong winds |
| Tilting Range | Operating range: - Upright: -45° to +90° (level - upward) - Leaning forward: -90° to +90° (downward - level - upward) - Hanging: -30° to +90° (level - downward) |
| Tilting Speed | Manual: Approx. 0.065 °/s - 100 °/s * *Except when frozen Preset: Up to approx. 200°/s *Except when leaning forward, frozen, or in strong winds |
| Preset Positions | 256 |
| Auto Mode | Auto track, Auto pan, Preset sequence, Patrol |
| Self Return | 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 5 min, 10 min, 20 min, 30 min, 60 min |

Browser GUI

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

Network

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|------------------------------------|--|
| Network IF | 10BASE-T/100BASE-TX, RJ45 connector |
| Resolution | [16:9 mode(30 fps mode)][16:9 mode(25 fps mode)] 3840×2160/ 2560×1440/ 1920×1080/ 1280×720/ 640×360/ 320×180 [4:3 mode] - |
| H.265/H.264 Transmission Mode/Type | [Transmission Mode] Constant bit rate/ VBR/ Frame rate/ Best effort [Transmission Type] 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] 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) *Advanced and Frame rate control are only available with H.265. [Smart VIQS] On (High)/ On (Low)/ Off [Smart P-picture control] On/Off |
| Audio Compression Method *2 | G.726 (ADPCM): 16 kbps/ 32 kbps G.711: 64 kbps AAC-LC : 64 kbps/ 96 kbps/ 128 kbps |
| Audio Transmission Mode | Off / 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 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, NTPCIP |
| 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 |
| SDXC/SDHC/SD Memory Card (Option) | - |
| Mobile Terminal Compatibility | iPad / iPhone (iOS 8.0 or later), Android™ terminals |
| ONVIF@Profile | M / S / T |

Input/Output

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| Audio Input *3 | Pre-stripped wires |
| Audio Output *3 | Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV |
| External I/O Terminals *3 | ALARM IN1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1) Relay (x1) |
| Monitor Output | - |

General

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| Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
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|--------------------------------|---|
| EMC | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035 |
| Power Source/Power Consumption | <p>[Power Source] 24V AC 50Hz/60Hz 24V DC 90W PoE++ (IEEE802.3bt Type4 Class 8 compliant) 60W PoE++ (IEEE802.3bt Type3 Class 6 compliant)</p> <p>[Power Consumption] Ambient operating temperature -50 to 65°C (IR LED Light available): 24 V AC 50Hz/60Hz : 4.9 A / Approx. 78.7 W 24 V DC : 3.3 A / Approx. 79.2 W 90W PoE++ DC 54 V : 1.3 A / Approx. 70.2 W (Class 8 device) Ambient operating temperature -30 to 65°C (IR LED Light not available): 60W PoE++ DC 54 V : 930 mA / Approx. 50.2 W (Class 6 device)</p> |
| Ambient Operating Temperature | <p>-50 °C to +60 °C {-58 °F to +140 °F} * (Power On range: -30 °C to +60 °C {-22°F to +140°F}) (24V AC/DC, PoE++ Class 8) -30 °C to +60 °C {-22 °F to +140°F} * (Power On range: -20 °C to +60 °C {-4 °F to +140°F}) (PoE++ Class 6)</p> <p>* If the IR LED Light is constantly on, the upper limit of the operating temperature range is +50°C. * The upper limit of the operating temperature range is +60°C for the black color model.</p> |
| Ambient Operating Humidity | 10 % to 100 % (no condensation) |
| Water and Dust Resistance | IP68/IP66 (IEC 60529), Type 4X (UL50E), Type 6P(UL50E), NEMA 4X compliant, NEMA 6P compliant |
| Shock Resistance | IK10(IEC 62262) * * Excluding front glass and LED cover |
| Wind Resistance | <p>Upright, Hanging: Operable Up to 75 m/s {approx. 167 mph} Non-destructive Up to 90 m/s {approx. 201 mph}</p> <p>Leaning forward: Operable Up to 60 m/s {approx. 134 mph} Non-destructive Up to 90 m/s {approx. 201 mph}</p> |
| Dimensions | 226 mm (W) x 450 mm (H) x 266 mm (D) {8-29/32 inches (W) x 17-23/32 inches (H) x 10-15/32 inches (D)} (excluding the mounting and bump parts) |
| Mass (approx.) | Approx. 8.1 kg {17.9 lbs} (excluding attachments) |
| Finish | Body: High-strength salt-resistant resin, die-cast, Black (Munsell N1 semi-gloss) Clear front cover: Clear glass |
| Easy Kitting | Yes |
| Other | Tamper-resistant enclosure*4 NEMA TS2 Compliant Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Heavy salt damage resistance specifications (ISO 14993 compliant) |

NOTES

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

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

*3 When using with them, WV-QCA502 cable is required.

*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-QWL503-B
Mount Bracket



WV-QWL503S-B
Mount Bracket



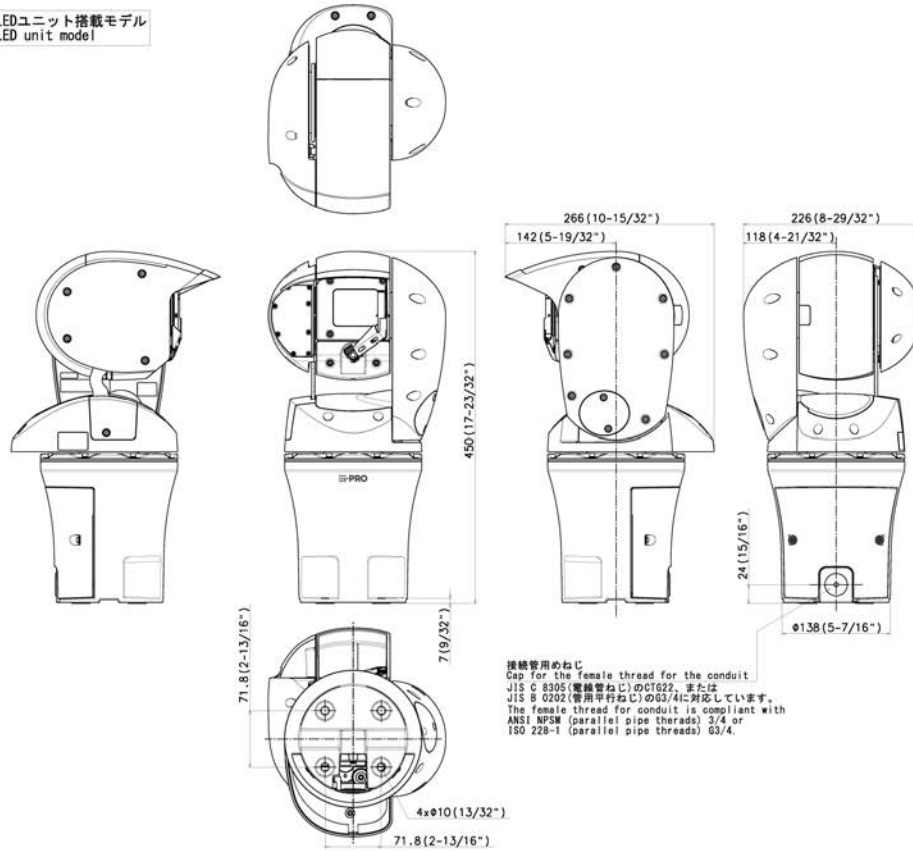
WV-QCN500-B
Mount Bracket



WV-QCA502
I/O Cable for Aero PTZ
camera

APPEARANCE

LEDユニット搭載モデル
LED unit model



| 投影面積/Projected area (直立/Upright) | |
|-------------------------------------|-------------------------|
| 平面図/Top-view | 0.074 (m ²) |
| 側面図/Side-view | 0.072 (m ²) |

Mass : Approx. 8.5 kg (18.76 lbs)

