

WV-X67310-Z4L1

2MP AI Rugged PTZ Camera with IR (40x zoom)

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- 2MP 40x Aero PTZ camera
- Up to 2 Edge AI analytic apps
- Al Auto tracking
- 24V AC/DC Power supply
- Built-in IR-LED (560m/1837ft)
- 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



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: 0.011 lx (30IRE, F1.6, 1/30s, AGC:11) Color: 0.015 lx (50IRE, F1.6, 1/30s, AGC:11) BW: 0.006 lx (50IRE, F1.6, 1/30s, AGC:11) BW: 0 lx (50IRE, F1.6, 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. 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) *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: 560 m {Approx. 1837 ft} (30IRE)* 400 m {Approx. 1312 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 |
| Al Sound Classification | Selectable from Gunshot, Yell, Vehicle horn, Glass break |
| Analytics | Al Video Motion Detection, Al Face Detection, Al Privacy Guard, Al People Detection, Al Vehicle Detection, Al 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 | 2 |

| 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 (Built-in gyro sensor) |
| Camera Title (OSD) | On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks) |
| Lens | |
| Optical Zoom | 40x |
| Extra Zoom | |
| Digital (electronic) Zoom | 40x - 640x |
| Focal Length | |
| | 4.25 mm – 170 mm {5/32 inches – 6-11/16 inches} |
| Angular Field of View | [16:9 mode] Horizontal: 1.9° (TELE) – 66° (WIDE) Vertical: 1.1° (TELE) – 39° (WIDE) [4:3 mode] Horizontal: 1.4° (TELE) – 51° (WIDE) Vertical: 1.1° (TELE) – 39° (WIDE) |
| Adjusting Angle | (PAN) angle: 360° turning (TILT) angle: -90° - +90° (YAW) angle: ±0° |
| Maximum Aperture Ratio | 1:1.6 (WIDE) - 1:4.95 (TELE) |
| Focus Range | 3.0 m {118-1/8 inches} - ∞ |
| Aperture Range | F1.6 – Close |
| DORI | |
| Detect (25ppm / 8ppf) | 2315.7 m {7597.6 ft} (TELE) 59.1 m {164.0 ft} (WIDE) |
| Observe (62.5ppm / 19ppf) | 926.3 m {3039.0 ft} (TELE) 23.7 m {77.6 ft} (WIDE) |
| Recognize (125ppm / 38ppf) | 463.1 m {1519.5 ft} (TELE) 11.8 m {38.8 ft} (WIDE) |
| Identify (250ppm / 76ppf) | 231.6 m {759.8 ft} (TELE) 5.9 m {19.4 ft} (WIDE) |
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| System on Chip | |
| System on Chip (SoC) | Ambarella CV25M |
| Pan/Tilt | |
| 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 | |
| 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(60 fps mode)][16:9 mode(30 fps mode)] [16:9 mode(50 fps mode)][16:9 mode(25 fps mode)] 1920×1080/ 1280×720/ 640×360/ 320×180 [4:3 mode(30 fps mode)] [4:3 mode(25 fps mode)] 1280×960/ VGA/ QVGA [4:3 mode(15 fps mode)] [4:3 mode(12.5 fps mode)] 2048×1536 */ 1280×960/ VGA/ QVGA |
| 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: O(SUPER FINE) - 9(LOW) |
| Smart Coding | [GOP(Group of pictures) controll] 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 VIQSI] On (High)/ On (Low)/ Off [Smart P-picture controll] 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, NTCIP |
| 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, Signed firmware |
| 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 | |
| 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 | |
| Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
| Safety - UL62368-1/CSA C22.2 No.62368- 1 | UL62368-1 3Ed, CAN/CSA C22.2 NO.62368-1-19 |
| EMC | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035 |
| Power Source/Power Consumption | [Power Source] 24V AC 50Hz/60Hz 24V DC 90W PoE++ (IEEE802.3bt Type4 Class 8 compliant) 60W PoE++ (IEEE802.3bt Type3 Class 6 compliant) [Power Consumption] Ambient operating temperatute -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 temperatute -30 to 65°C (IR LED Light not available): 60W PoE++ DC 54 V: 930 mA / Approx. 50.2 W (Class 6 device) |
| Ambient Operating Temperature | -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) * 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. |
| 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 | Upright, Hanging: Operable Up to 75 m/s {approx. 167 mph} Non-destructive Up to 90 m/s {approx. 201 mph} Leaning forward: Operable Up to 60 m/s {approx. 134 mph} Non-destructive Up to 90 m/s {approx. 201 mph} |
| 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)



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

