

WV-X15501-Z1L

5MP AI Outdoor IR Bullet Camera (10x zoom)

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- 5MP Bullet camera
 - Up to 9 Edge AI analytic apps
 - 10x optical zoom
 - Built-in IR LED (180m/591ft)
 - IP66, IP67, 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 | 5.12 mm (H) × 3.84 mm (V) {3/16 inches (H) × 5/32 inches (V)} |
| Minimum Illumination | Color : 0.04 lx (30IRE, F1.6, 1/30s, AGC:11)* 0.06 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0038 lx (50IRE, F1.6, 16/30s, AGC:11)* BW : 0 lx (50IRE, F1.6, 1/30s, AGC:11, IR LED: On) 0.04 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0025 lx (50IRE, F1.6, 16/30s, AGC:11)* *Converted value |
| White Balance | ATW1/ ATW2/ AWC |
| Shutter Speed | [60 fps mode] 1/60 Fix to 1/10000 Fix [30 fps mode] 1/30 Fix to 1/10000 Fix [50 fps mode] 1/50 Fix to 1/10000 Fix [25 fps mode] 1/25 Fix to 1/10000 Fix |
| Maximum Shutter | [60 fps mode] Max. 1/4000 s to Max. 16/30 s [30 fps mode] Max. 1/4000 s to Max. 16/30 s [50 fps mode] Max. 1/4000 s to Max. 16/25 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)/ Auto3(SCC)/Auto4(LPR) |
| IR LED Light | High/Middle/Low/Off Maximum irradiation distance: When using PoE++ 180 m {Approx. 591 ft} (30IRE)* 130 m {Approx. 427 ft} (50IRE) When using PoE+ 120 m {Approx. 394 ft} (30IRE)* 85 m {Approx. 279 ft} (50IRE) When using DC12V 85 m {Approx. 279 ft} (30IRE)* 60 m {Approx. 196 ft} (50IRE) * 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 |
| Audio Detection | On/ Off |
| AI Sound Classification | Selectable from Gunshot, Yell, Vehicle horn, Glass break |

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| Analytics | AI Video Motion Detection, AI Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Occupancy Detection, AI Scene Change Detection, AI On-site Learning, AI Processing Relay, License Plate Recognition/MMC classification (3rd party application)*1 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 | 9 |
| Privacy Zone | On/Off, Up to 8 zones available Color : gray/white/blue/green/red/black, or mosaic |
| VIQS | On/Off, Up to 8 zones available |
| Image Rotation | 0° (Off) / 90° / 180° (Upside-down) / 270° |
| 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 | |
|---------------------------|---|
| Optical Zoom | 10x (Motorized zoom / Motorized focus) |
| Digital (electronic) Zoom | max 160x |
| Focal Length | 4.7 mm – 47 mm {3/16 inches – 1-27/32 inches} |
| Angular Field of View | [16:9 mode] Horizontal: 6.1° (TELE) – 58° (WIDE) Vertical: 3.4° (TELE) – 34° (WIDE) [4:3 mode] Horizontal: 6.1° (TELE) – 58° (WIDE) Vertical: 4.6° (TELE) – 45° (WIDE) |
| Adjusting Angle | Ceiling mounting Horizontal : ±180 ° (PAN rotation part) Vertical : 0 ° to 100 ° (TILT rotation part) Yaw : -240 ° to +100 ° (YAW rotation part) Wall mounting Horizontal : ±100 ° (TILT rotation part)* Vertical : ±100 ° (TILT rotation part)* Yaw : -240 ° to +100 ° (YAW rotation part) * You can change between horizontal and vertical angels by adjusting the PAN rotation part. |
| Maximum Aperture Ratio | 1:1.6 (WIDE) – 1:3.0 (TELE) |
| Focus Range | 1.5 m {59-1/16 inches} – ∞ |
| Aperture Range | F1.6 – Close |

| DORI | |
|----------------------------|---|
| Detect (25ppm / 8ppf) | 92.4 m {303.0 ft} (WIDE) 960.9 m {3152.6 ft} (TELE) |
| Observe (62.5ppm / 19ppf) | 36.9 m {121.2 ft} (WIDE) 384.4 m {1261 ft} (TELE) |
| Recognize (125ppm / 38ppf) | 18.5 m {60.6 ft} (WIDE) 192.2 m {630.5 ft} (TELE) |
| Identify (250ppm / 76ppf) | 9.2 m {30.4 ft} (WIDE) 96.1 m {315.3 ft} (TELE) |

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

| Preset Positions | |
|-------------------------|--|
| No. of Preset Positions | 8 |
| Auto Mode | Preset sequence |
| 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 |

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| Browser *2 | Microsoft Edge, Firefox, Google Chrome |
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Network

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|------------------------------------|---|
| Network IF | 10BASE-T/100BASE-TX, RJ45 connector |
| Resolution | [16:9mode(60fps mode)][16:9mode(50fps mode)] 3072x1728*/2560x1440 [16:9mode(30fps mode)][16:9mode(25fps mode)] 3072x1728*/2560x1440/1920x1080/1280x720/640x360/320x180 [4:3mode(60fps mode)][4:3mode(50fps mode)] 3072x2304*/2560x1920 [4:3mode(30fps mode)][4:3mode(25fps mode)] 3072x2304*/2560x1920/1280x960/800x600/640x480/400x300/320x240 *By super resolution techniques |
| 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)/Frame rate control (Variable GOP 4s-16s with frame rate control) *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 *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 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), Device Certificate GlobalSign® pre-installed, HTTPS, User authentication, digest authentication, Host authentication, IEEE802.1X, System log, Image transmission log, brute-force protection, Alteration Detection, Secure boot, Signed firmware |
| SDXC/SDHC/SD Memory Card (Option) | microSDXC memory card: 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB microSD memory card: 2 GB |
| Mobile Terminal Compatibility | iPad / iPhone (iOS 8.0 or later), Android™ terminals |
| ONVIF®Profile | G / M / S / T |

Alarm

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|---------------|--|
| Alarm Source | 3 terminals input, 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, MQTT alarm notification, FTP/SFTP image transfer, SNMP trap notification |

Input/Output

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|---------------------|---|
| Built-in Microphone | - |
| Audio Input *4 | ø3.5 mm stereo mini jack For microphone input: Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 kΩ (unbalanced) Supply voltage: 2.5 V ±0.5 V For line input: Input level: Approx. -10 dBV |

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| Audio Output *4 | ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV |
| External I/O Terminals *4 | 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) |
| Monitor Output | Yes (for adjustment) Pin jack, NTSC or PAL signal can be output from camera |

| General | |
|-----------------------------------|--|
| Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
| EMC | FCC (Part15 ClassA), ICES-003 ClassA |
| Power Source/Power Consumption *4 | [Power Source] DC12V PoE+(IEEE802.3at compliant) PoE++(IEEE802.3bt compliant) [Power Consumption] DC12V : 1.3A / Approx. 15.6 W PoE+ DC 54 V : 460 mA / Approx. 24.8 W (Class 4 device) PoE++ DC 54 V : 600 mA / Approx. 32.4 W (Class 5 device) |
| Ambient Operating Temperature | -40 °C to +60 °C [-40 °F to +140 °F] (PoE++) (Power On range: -30 °C to +60 °C [-22 °F to +140 °F]) * When using with the IR LED light lit, the upper limit of the operating temperature range is +50 °C [+122 °F]. * When using DC12V, the lower limit of the operating temperature range is -30°C [-22 °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 | When the sunshade is in its initial position Φ168 mm x 403 mm (D) {Φ6-5/8 inches x 15-7/8 inches(D)} When moving the sunshade forward Φ168 mm x 456 mm (D) {Φ6-5/8 inches x 17-15/16 inches(D)} |
| Mass (approx.) | Approx. 3.6kg {8.0 lbs} (Including accessories) |
| Finish | Main body: Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Front panel: PC resin, Clear |
| Easy Kitting | Supported |

NOTES

*1 Vaxtor LPR application (VaxALPR) is pre-installed with a 30-day free trial license.

At the conclusion of the free trial period, a valid license must be purchased in order to continue using the application.

Please contact i-PRO regional representative.

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

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

*4 When using a 12 V DC power supply, EXT I/O terminal, audio input, and audio output, I/O cable (WV-QCA501A) 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 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 \(i-pro.com\)](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

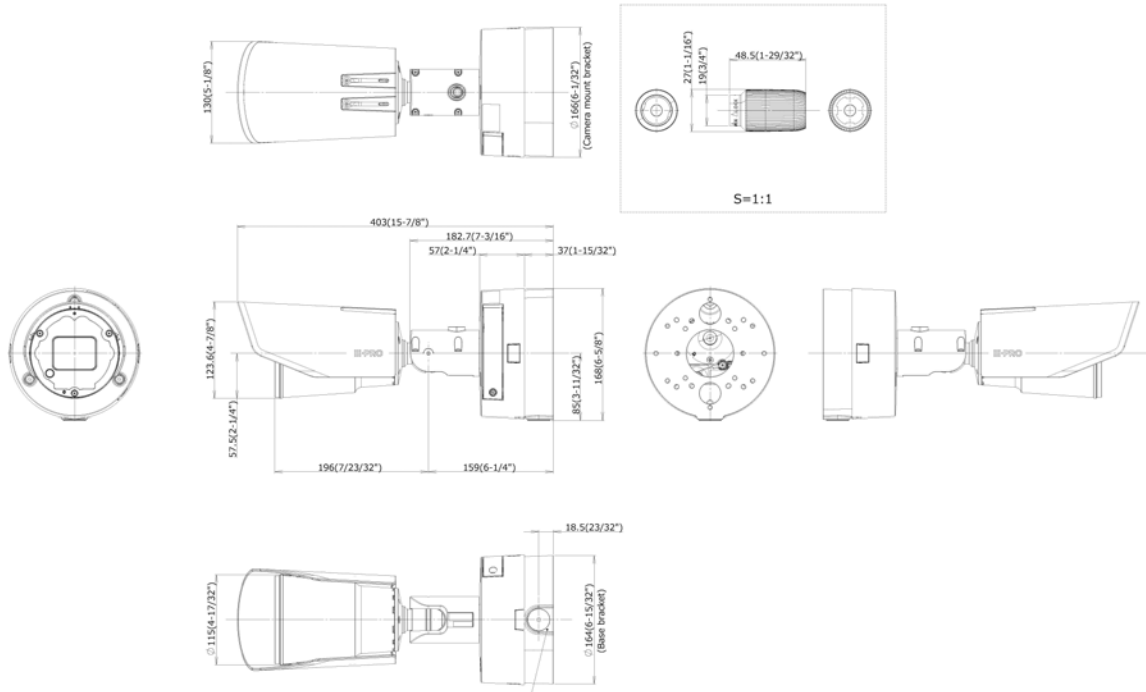


WV-PM500
Compact microphone
unit for surveillance
cameras



WJ-PU201
60W Single Port Power
over Ethernet

APPEARANCE



接続管用のキャップ
 Cap for the female thread for the conduit
 JIS C 8305(電線管用キャップ)CTG22. または
 JIS B 0202(管用平行ねじ)G3/4:305に準じます。
 The female thread for conduit is compliant with
 ANSI NPSM (parallel pipe threads) 3/4 or
 ISO 228-1 (parallel pipe threads) G3/4.

| | 投影面積/Projected area |
|----------------------------------|------------------------|
| 平面図/Top-view | 0.045(m ²) |
| 側面図/Side-view | 0.041(m ²) |
| Mass : Approx. 3.6 kg (7.95 lbs) | |

Unit:mm

