

WV-S66300-Z3

2MP Outdoor 32x PTZ Network Camera with AI engine

Rapid PTZ camera with AI engine



- 2MP 32x PTZ camera
- Innovative New Form Factor PTZ
- Up to 2 Edge AI analytic apps
- AI auto tracking
- High speed Pan/Tilt drive (Pan: 700deg./s, Tilt: 500deg./s)
- IP66, 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)* 0.015 lx (50IRE, F1.6, 1/30s, AGC:11) 0.001 lx (50IRE, F1.6, 16/30s, AGC:11)* BW : 0.006 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0004 lx (50IRE, F1.6, 16/30s, AGC:11)* *Converted value |
| White Balance | ATW1 / ATW2 / AWC |
| Shutter Speed | [60fps mode] 1/60 Fix to 1/10000 Fix [50fps mode] 1/50 Fix to 1/10000 Fix |
| Maximum shutter | 60 fps/30 fps/15 fps mode: Max.1/4000s to Max.16/30s 50 fps/25 fps/12.5 fps mode: Max.1/4000s to Max.16/25s |
| Intelligent Auto | On / Off |
| Super Dynamic | On / Off, The level can be set in the range of 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 The level can be set in the range of 0 to 31 (only when Super dynamic / Intelligent Auto :Off) |
| Fog Compensation | On / Off, The level can be set in the range of 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/Auto1(Normal)/Auto2(IR Light)/Auto3(SCC) |
| IR LED Light | - |
| 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 areas available |
| Audio Detection | On / Off |
| AI Sound Classification | Gunshot, Yell, Vehicle horn, Glass break |
| AI Analytics | AI Video Motion Detection, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection (prior to V2.70), AI Occupancy Detection, AI Scene Change 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 |
| Privacy Zone | On / Off, Up to 32 zones available |

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| VIQS | On / Off, Up to 8 zones available |
| Image Stabilizer | On / Off (Built-in gyro sensor) |
| Camera Title (OSD) | On / Off, Up to 40 characters (alphanumeric characters, marks) |

Lens

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|------------------------|--|
| Optical zoom | 32x (Motorized zoom / Motorized Focus) |
| Extra zoom | Max.48x(32x-48x when resolution is 1280x720) |
| Focal length | 4.25 - 136 mm {5/32 inches - 5-11/32 inches} |
| Angular Field of View | [16 : 9 mode] Horizontal : 2.4° (TELE) – 65° (WIDE), Vertical : 1.4° (TELE) – 39° (WIDE) (TBD) [4 : 3 mode] Horizontal : 1.9° (TELE) – 51° (WIDE), Vertical : 1.4° (TELE) – 39° (WIDE) (TBD) |
| Maximum Aperture Ratio | 1 : 1.6 (WIDE) – 1 : 4.4 (TELE) |
| Focus range | 3.0 m {118-1/8 inches} –∞ |
| Aperture range | F1.6 - close |

DORI

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|----------------------------|---|
| Detect (25ppm / 8ppf) | Wide: 60.3 m / 197.8 ft, Tele: 1833.2 m / 6014.4 ft |
| Observe (62.5ppm / 19ppf) | Wide: 24.1 m / 79.1 ft, Tele: 733.3 m / 2405.8 ft |
| Recognize (125ppm / 38ppf) | Wide: 12.1 m / 39.6 ft, Tele: 366.6 m / 1202.9 ft |
| Identify (250ppm / 76ppf) | Wide: 6.0 m / 19.8 ft, Tele: 183.3 m / 601.4 ft |

System on Chip (SoC)

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|----------------------|-----------------|
| System on Chip (SoC) | Ambarella CV25m |
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Adjusting Angle

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|-----------------|--|
| Adjusting Angle | Horizontal : 360° Endless Panning, TILT : -20° to +90°, Yaw : 0° |
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Pan /tilt

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| Panning Range | 360° Endless Panning |
| Panning Speed | Manual: Approx. 0.065°/s – 150°/s, Preset: Up to approx. 700°/s |
| Tilting Range | Operational -20° – +90° |
| Tilting Speed | Manual: Approx. 0.065°/s –150°/s, Preset: Up to approx. 500°/s |
| Preset Positions | 256 positions |
| 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 |
| Active ClearSight | Yes |

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 |
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| Resolution H.265/ H.264/ JPEG (MJPEG) | [16:9 mode (60fps mode)], [16:9 mode (30fps mode)], [16:9 mode (50fps mode)], [16:9 mode (25fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536*, 1280x960, VGA, QVGA *Used bu super resolution techniques |
| H.265/H.264 Transmission Mode/Type *2 | [Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast |
| JPEG | [Image Quality] 10 steps |
| Smart Coding | GOP (Group of pictures) control: Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced(Fixed GOP 60s w/1s 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 *3 | G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*5 : 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 IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, 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) | H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card : 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, 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

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|---------------------------|---|
| Audio Input *4 | ø3.5 mm stereo mini jack Recommended applicable microphone: Plug-in power type (Sensitivity of microphone:-51dB to -38dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 kΩ (unbalanced) Supply voltage: 4.0V±0.5V For line input : Input level : Approx. -10 dBV |
| Audio Output *4 | ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600Ω (unbalanced) Output level : -20 dBV |
| External I/O Terminals *4 | ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) |

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|------------------------------------|---|
| Monitor Output | - |
| General | |
| Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
| EMC | FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035 |
| Other Standard | NEMA-TS2 |
| Power Source and Power Consumption | PoE++ (IEEE802.3bt), PoE++ DC54V: 700mA/Approx.37.8W (Class 6 device) |
| Ambient Operating Temperature | -50 °C to +60 °C * (-58 °F to +140 °F) (PoE++) (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) (TBD) Maximum temperature according to NEMA TS 2 (2.2.7) : 74°C (165°F) * When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50°C {+122 °F}. |
| Ambient Operating Humidity | 10 to 100 % (no condensation) |
| Water and Dust Resistance | IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant |
| Shock Resistance | IK10 (IEC 62262) |
| Wind Resistance | Up to 40 m/s {approx. 89 mph} |
| Dimensions | Maximum diameter: ϕ 167mm \times 205 mm (H) { ϕ 6-9/16 inches \times 8-1/16 inches (H) } Dome radius SR 77.5 mm {SR 3-1/16 inches} (excluding an attachment for the conduit portion and protruding parts) |
| Mass (approx.) | Approx. 3 kg (without attachment) |
| Finish | Main body : Aluminum die cast, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover: Polycarbonate resin, Clear |
| Other | Tamper-resistant enclosure *5 |

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.

*5 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-QWL502-W
Mount Bracket



WV-QWL501-W
Mount Bracket



WV-QSR506M1-W
Mount Bracket



WV-QSR506M-W
Mount Bracket



WV-QSR506F1-W
Mount Bracket



WV-QSR506F-W
Mount Bracket



WV-QSR506-W
Mount Bracket



WV-QPL500-W
Mount Bracket



WV-QJB505-W
Base Bracket



WV-QEM505-W
Ceiling Mount Bracket



WV-QDC508C
Dome Cover



WV-QCN500-W
Mount Bracket



WV-QCL501-W
Mount Bracket



WV-QCL101-W
Mount Bracket



WV-QCL100-W
Mount Bracket



PWM25W
Gooseneck Wall Mount



PWM25AW
Gooseneck Wall Mount



PPRM35W
Parapet Mount Bracket



PPRM35AW
Parapet Mount Bracket



PAPM4W
Pole Mount Bracket



PACA4W
Corner Mount Adapter
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

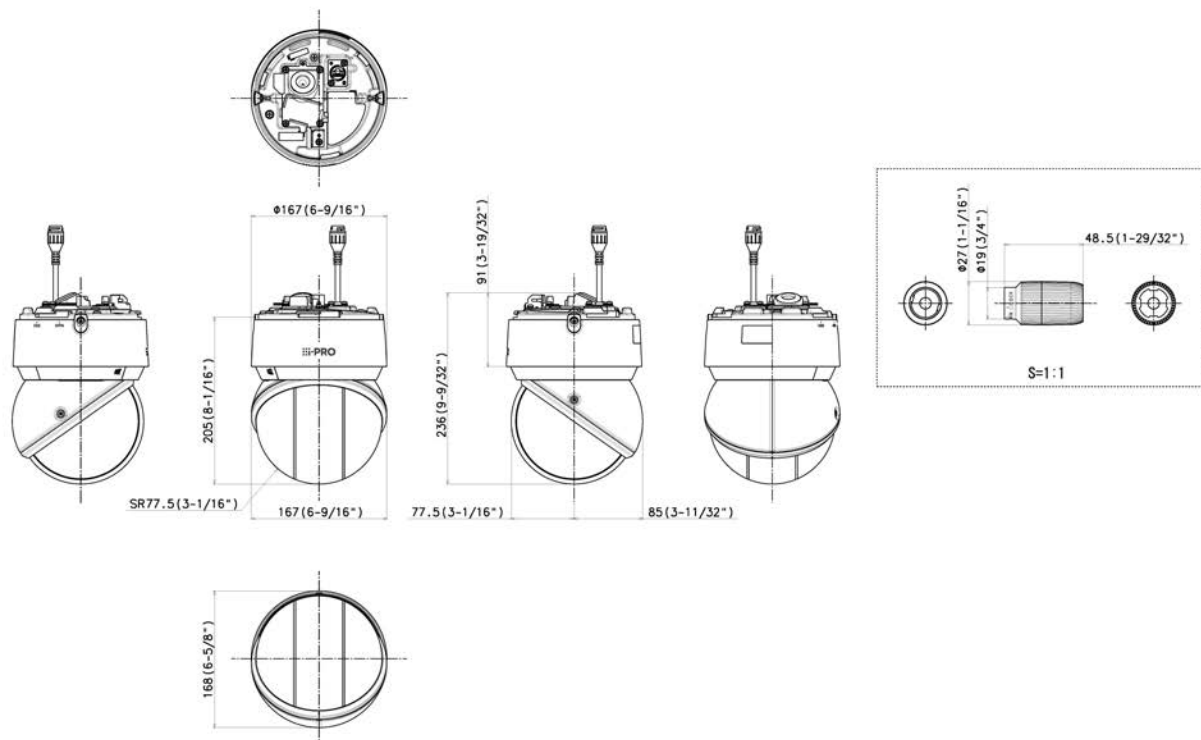


[WV-QCA501A](#)
I/O Cable



[WV-PM500](#)
Compact microphone
unit for surveillance
cameras

APPEARANCE



| | 投影面積/Projected area |
|----------------|-------------------------|
| 正面図/Front-view | 0.029 (m ²) |
| 側面図/Side-view | 0.029 (m ²) |

Mass : Approx. 3 kg [6.62 lbs]

Unit:mm