

WV-S61301-Z1

2MP (1080p) 10x Indoor PTZ Network Camera

S-series PTZ camera with AI Engine



- 2MP (1080p) 1920x1080
- 10x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- Built-in FIPS 140-2 Level 3 Certified Secure Element
(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 : 0.015 lx (50IRE, F1.6, 1/30s) Color : 0.001 lx (50IRE, F1.6, 16/30s) BW : 0.006 lx (50IRE, F1.6, 1/30s) BW : 0.0004 lx (50IRE, F1.6, 16/30s) |
| White Balance | ATW1 / ATW2 / AWC |
| Shutter Speed | [60 fps Mode] 1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix [50 fps Mode] 1/50 Fix to 1/10000 Fix, [25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix |
| 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 / Auto2 / Auto3 (SCC) |
| 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 Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection, 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 |
| VIQS | On / Off, Up to 8 zones available |
| Image Stabilizer | On / Off (Built-in gyro sensor) |

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| Camera Title (OSD) | On / Off, Up to 40 characters (alphanumeric characters, marks) |
| Focus Adjustment | Auto focus |
| Lens | |
| Optical zoom | 10x (Motorized zoom / Motorized Focus) |
| Extra zoom | Max. 15x (10 to 15x : When resolution is 1280 x 720) |
| Focal Length | 4.7 – 47 mm {3/16 inches - 1-27/32 inches} |
| Angular Field of View | [16 : 9 mode] Horizontal : 6.7° (TELE) – 62° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE) [4 : 3 mode] Horizontal : 5.1° (TELE) – 48° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE) |
| Maximum Aperture Ratio | 1 : 1.6 (WIDE) – 1 : 3.0 (TELE) |
| Focus Range | 1.5 m {59-1/16 inches} – ∞ |
| DORI | |
| Detect (25ppm / 8ppf) | Wide: 64.2m / 210.5 ft, Tele: 656.0 m / 2152.3 ft |
| Observe (62.5ppm / 19ppf) | Wide: 25.7 m / 84.2 ft, Tele: 262.4 m / 860.9 ft |
| Recognize (125ppm / 38ppf) | Wide: 12.8 m / 42.1 ft, Tele: 131.2 m / 430.5 ft |
| Identify (250ppm / 76ppf) | Wide: 6.4m / 21.1 ft, Tele: 65.6 m / 215.2 ft |
| System on Chip (SoC) | |
| System on Chip (SoC) | Ambarella CV25M |
| Adjusting Angle | |
| Adjusting Angle | Horizontal : 0 to +350° Vertical : -15° to +90°, Yaw : 0° |
| Pan/tilt | |
| Panning Range | 0 – +350° |
| Panning Speed | Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 500°/s |
| Tilting Range | Operational -30° – +90° |
| Tilting Speed | Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 350°/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 |
| Browser GUI | |
| Camera Control | Brightness, AUX On / Off |
| Audio | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High |
| GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
| Browser | Microsoft Edge, Firefox, Google Chrome |
| Network | |
| Network IF | 10 Base-T / 100 Base-TX, RJ45 connector |

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| Resolution H.265/ H.264 JPEG (MJPEG) | [16 : 9 mode (60 fps mode)]*2 , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)]*2 , [16 : 9 mode (25 fps 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*4 , 1280x960, VGA, QVGA |
| H.265/H.264 | [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 Coding: Auto VIQS: On/Off |
| Audio Compression | 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, SFTP, MQTT, LLDP 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, SFTP, 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 (V2.50 or later) |
| 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 | 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 |
| Audio Output | ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV |

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| External I/O Terminals | 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) |
| Monitor Output | Yes (for adjustment) Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera |
| 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 |
| Power Source and Power Consumption | DC12 V, PoE (IEEE802.3af) DC12 V: 970 mA / Approx. 11.6 W PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0 device) |
| Ambient Operating Temperature | -10 °C to +50 °C (+14 °F to +122 °F) (Power On range : 0 °C to +50 °C {+32 °F to +122 °F}) |
| Ambient Operating Humidity | 10 to 90 % (no condensation) |
| Anti-Condensation System | — |
| Dimensions | ø117 mm x 155 mm (H) {ø4-19/32 inches x 6-3/32 inches (H)} |
| Mass (Approx.) | Approx. 1.2 kg {2.65 lbs.} |
| Finish | Main body : Resin, i-PRO white |

NOTES

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-Q105A
Mount Bracket



WV-QCL100-W
Mount Bracket



WV-QCL101-W
Mount Bracket



WV-QCN500-W
Mount Bracket



WV-QED100C-W
Ceiling Mount Bracket



WV-QED100G-W
Ceiling Mount Bracket



WV-QJB500-W
Mount Bracket



WV-QPL500-W
Mount Bracket



WV-QWD100C-W
Wall Mount Bracket



WV-QWD100G-W
Wall Mount Bracket



WV-QWL500-W
Mount Bracket



PACA4W
Corner Mount Adapter
Bracket



PAPM4W
Pole Mount Bracket



WV-QAT100
Inner Cover



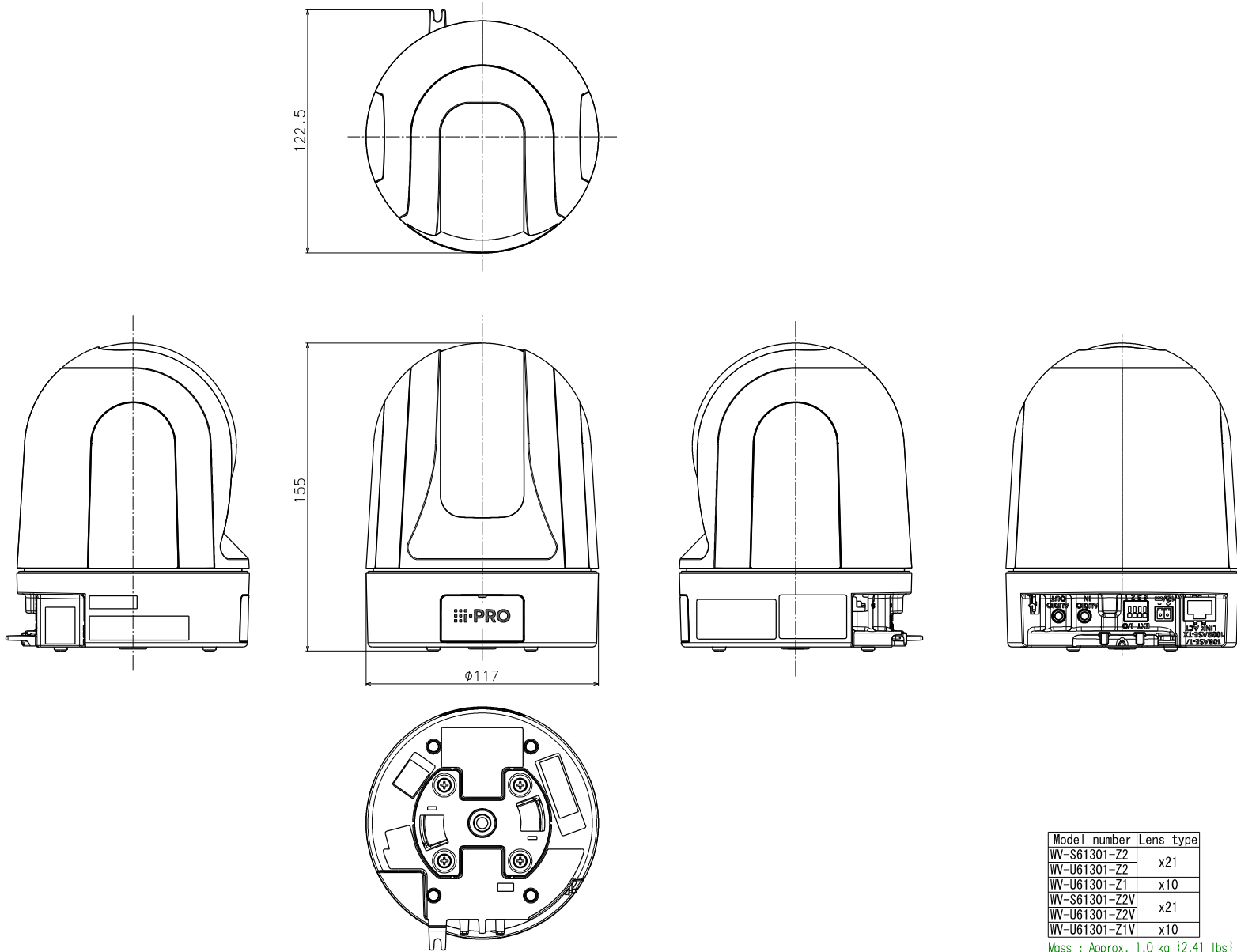
WV-QCD100C-W
Dome Cover



WV-QCD100G-W
Dome Cover



WV-PM500
Compact microphone
unit for surveillance
cameras



| Model number | Lens type |
|---------------|-----------|
| WV-S61301-Z2 | |
| WV-U61301-Z2 | x21 |
| WV-U61301-Z1 | x10 |
| WV-S61301-Z2V | |
| WV-U61301-Z2V | x21 |
| WV-U61301-Z1V | x10 |

Mass : Approx. 1.0 kg {2.41 lbs}