# WV-S61702A-Z3

4K AI Indoor PTZ Camera (30x zoom)

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- 4K 30x PTZ camera
- Up to 3 Edge AI analytic apps
- AI auto tracking
- Durable Pan/Tilt gear mechanism
- Built-in FIPS 140-3 Level 3, CC EAL6+ Compliant Secure Element (NXP® EdgeLock® SE052F)
- 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 :<br>0.13 lx (30IRE, F1.8, 1/30s, AGC:11)*<br>0.19 lx (50IRE, F1.8, 1/30s, AGC:11)<br>0.012 lx (50IRE, F1.8, 16/30s, AGC:11)*<br>BW :<br>0.10 lx (50IRE, F1.8, 1/30s, AGC:11)<br>0.006 lx (50IRE, F1.8, 16/30s, AGC:11)*<br>*Converted value |
| White Balance | ATW1/ ATW2/ AWC |
| Shutter Speed | [30 fps mode] 1/30 Fix to 1/10000 Fix<br>[25 fps mode] 1/25 Fix to 1/10000 Fix |
| Maximum Shutter | [30 fps mode] Max. 1/4000 s to Max. 16/30 s<br>[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, 15 fps*)<br>* The frame rate is limited to 15 fps for level 30 or higher. |
| 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)<br>*only when Super Dynamic/ Intelligent Auto: Off |
| Fog Compensation | On/Off (Range : 0 to 8)<br>*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) |
| IR LED Light | - |
| Digital Noise Reduction | The level can be set in the range of 0 to 255. |
| Video Motion Detection (VMD) | On/ Off<br>4 areas available |
| Scene Change Detection (SCD) | On/ Off<br>1 area available |
| Audio Detection | On/ Off |
| AI Sound Classification | Selectable from Gunshot, Yell, Vehicle horn, Glass break |
| Analytics | AI Video Motion Detection, AI Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Occupancy Detection, AI Scene Change Detection<br><br>For details:<br>https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software<br>3rd party applications are also available.<br>https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list |

| | |
|---|---|
| Max. Number of Applications | 3 |
| Privacy Zone | On/Off<br>Up to 32 zones available<br>If privacy zone is enabled, frame rate will be limited to 15fps/12.5fps. |
| VIQS | On/Off<br>Up to 8 zones available |
| Image Stabilizer | On/Off<br>When image stabilization is set to On, the frame rate will be limited to 15fps/12.5fps. |
| Camera Title (OSD) | On/Off<br>Up to 40 characters, Up to 2 lines (alphanumeric characters, marks) |

| **Lens** | |
|---|---|
| Optical Zoom | 30x (Motorized zoom / Motorized focus) |
| 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]<br>Horizontal: 2.5° (TELE) – 62° (WIDE)<br>Vertical: 1.4° (TELE) – 37° (WIDE) |
| Adjusting Angle | (PAN) angle : 0° ~ +350°<br>(TILT) angle : -25° ~ +90°<br>(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** | |
|---|---|
| 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** | |
|---|---|
| System on Chip (SoC) | Ambarella CV22 |

| **Pan/Tilt** | |
|---|---|
| Panning Range | 0° to +350° |
| Panning Speed | Manual: Approx.0.065 °/s – 150 °/s<br>Preset: Up to approx. 500 °/s |
| Tilting Range | Operational range: -25°– +90° (level – downward) |
| Tilting Speed | Manual: Approx. .0.065 °/s – 150°/s<br>Preset: Up to approx. 350 °/s |
| 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,<br>Russian, Chinese, Japanese |

| | |
|---|---|
| Browser *1 | Microsoft Edge<br>Firefox<br>Google Chrome |

| Network | |
|---|---|
| Network IF | 10BASE-T/100BASE-TX, RJ45 connector |
| Resolution | [16:9 mode(30 fps mode)][16:9 mode(25 fps mode)]<br>3840×2160/ 2560×1440/ 1920×1080/ 1280×720/ 640×360/ 320×180<br>[4:3 mode]<br>- |
| H.265/H.264 Transmission Mode/Type | [Transmission Mode]<br>Constant bit rate/ VBR/ Frame rate/ Best effort<br>[Transmission Type]<br>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]<br>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)<br>*Advanced and Frame rate control are only available with H.265.<br>[Smart VIQS]<br>On (High)/ On (Low)/ Off<br>[Smart P-picture control]<br>On/Off |
| Audio Compression Method *2 | G.726 (ADPCM): 16 kbps/ 32 kbps<br>G.711: 64 kbps<br>AAC-LC : 64 kbps/ 96 kbps/ 128 kbps |
| No. of Simultaneous Users | Up to 14 users (Depends on network conditions) |
| Secure | FIPS 140-3 level 3, CC EAL6+ (NXP® EdgeLock® SE052F),<br>Device Certificate GlobalSign® pre-installed, HTTPS,<br>User authentication, digest authentication, Host authentication,<br>IEEE802.1X, System log, Image transmission log, brute-force protection,<br>Alteration Detection, Secure boot, Signed firmware |
| SDXC/SDHC/SD Memory Card (Option) | microSDXC memory card: 64 GB, 128 GB, 256 GB, 512 GB<br>microSDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB<br>microSD memory card: 2 GB |
| Mobile Terminal Compatibility | iPad / iPhone (iOS 8.0 or later),<br>Android™ terminals |
| ONVIF®Profile | G / S / T / M |

| Input/Output | |
|---|---|
| Audio Input | ø3.5 mm stereo mini jack |
| Audio Output | ø3.5 mm stereo mini jack (Audio output is monaural.)<br>Output impedance: Approx. 600 Ω (unbalanced)<br>Output level: -20 dBV |
| External I/O Terminals | ALARM IN1<br>(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)<br>ALARM IN2 (Alarm input 2/ ALARM OUT) (x1)<br>ALARM IN3 (Alarm input 3/ AUX OUT) (x1) |
| Monitor Output | - |

| General | |
|---|---|
| Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
| EMC | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035 |

| | |
|---|---|
| Power Source/Power Consumption | [Power Source]<br>DC12V *3 , PoE+ (IEEE802.3at compliant)<br>[Power Consumption]<br>DC12 V : 1.25 A / Approx. 15.0 W<br>PoE+ DC 54 V : 310 mA / Approx. 16.7 W (Class 4 device) |
| Ambient Operating Temperature | -10 °C to +50 °C {14 °F to 122 °F}<br>(Power On range: 0 °C to 50 °C {32 °F to 122 °F}) |
| Ambient Operating Humidity | 10 % to 90 % (no condensation) |
| Storage Temperature & Humidity | Storage temperature: -30 °C to +60 °C {-22 °F to +140 °F}<br>Storage humidity: 10 % to 95 % (no condensation) |
| Dimensions | ø185 mm × 214 mm (H) {ø7-9/32 inches × 8-7/16 inches (H)} |
| Mass (approx.) | Approx. 1.8 kg {3.97 lbs}<br>(Including camera mount bracket: approx.100 g {0.22 lbs}, decorative cover: approx. 150 g {0.33 lbs}) |
| Finish | Main body: Aluminium die cast /ABS resin, i-PRO white<br>Lens cover: ABS resin, Black |
| Easy Kitting | Yes |

# NOTES

*1 For information on the operation verification of the web browsers, refer to our support website .
*2 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity) .
*3 When using with them, WV-QCA501A cable 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 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-QWL500-W
Mount Bracket

WV-QWL100-W
Wall Mount Bracket

WV-QPL500-W
Mount Bracket

WV-QJB500-W
Mount Bracket

WV-QEM101-W
Ceiling Mount Bracket

WV-QDC100G-W
Dome Cover

WV-QDC100C-W
Dome Cover

WV-QCN500-W
Mount Bracket

WV-QCL101-W
Mount Bracket

WV-QCL100-W
Mount Bracket

WV-Q105A
Mount Bracket

WV-PM500
Compact microphone unit

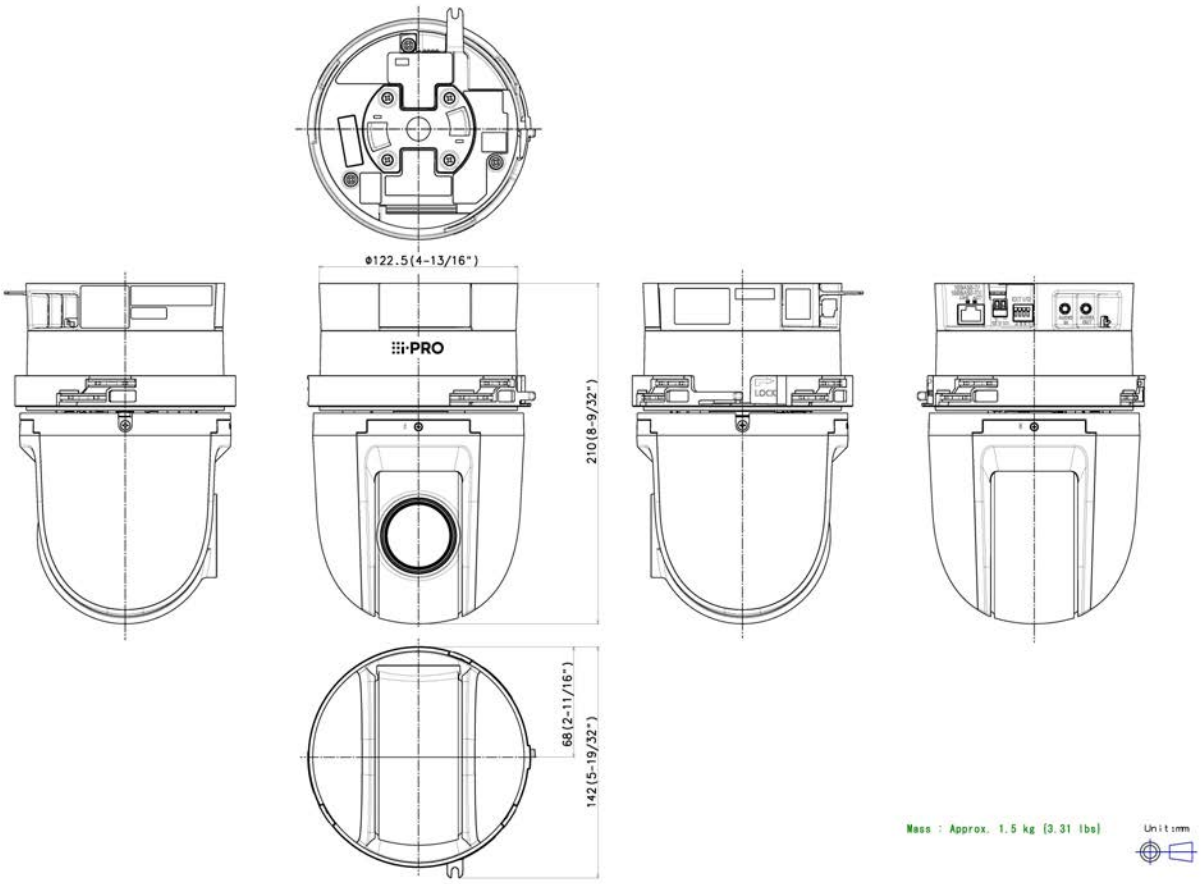
WV-SDB256G
i-PRO SD Memory Card

WV-SDB128G
i-PRO SD Memory Card

WV-SDB064G
i-PRO SD Memory Card

WV-SDB032G
i-PRO SD Memory Card

# APPEARANCE


ϕ122.5(4-13/16")
210(8-9/32")
68(2-11/16")
142(5-19/32")
Mass : Approx. 1.5 kg (3.31 lbs)
Unit:mm