

# WV-S61302-Z4

2MP (1080p) 40x Indoor PTZ Network Camera

## S series PTZ camera with AI



- 2MP (1080p) 1920x1080
- 40x 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 with TPM functionality (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant



# SPECIFICATIONS

| Camera  |  |
|---|--|
| Image Sensor                                      | Approx. 1/2.8 type CMOS image sensor   |
| Minimum Illumination                              | Color : 0.015 lx (50IRE, F1.6, 1/30s)<br>Color : 0.001 lx (50IRE, F1.6, 16/30s)<br>BW : 0.006 lx (50IRE, F1.6, 1/30s)<br>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,<br>[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix<br>[50 fps Mode] 1/50 Fix to 1/10000 Fix,<br>[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<br>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<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)   |
| 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                                      | Yes  |
| Privacy Zone                                      | On / Off, Up to 32 zones available   |
| VIQS  | On / Off, Up to 8 zones available  |
| Image Stabilizer                                  | On / Off (available only in the 30 fps mode)   |
| Camera Title (OSD)                                | On / Off, Up to 40 characters (alphanumeric characters, marks)   |
| Focus Adjustment                                  | Auto focus   |
| Lens  |  |
| Optical zoom                                      | 40x (Motorized zoom / Motorized Focus)   |
| Extra zoom  | Max. 60x (40 to 60x : When resolution is 1280 x 720)   |
| Focal Length                                      | 4.25 - 170 mm {5/32 inches - 6-11/16 inches}   |

|                        |  |
|------------------------|--|
| Angular Field of View  | [16 : 9 mode]<br>Horizontal : 1.9° (TELE) – 66° (WIDE), Vertical : 1.1° (TELE) – 39° (WIDE)<br>[ 4 : 3 mode]<br>Horizontal : 1.4° (TELE) – 51° (WIDE), Vertical : 1.1° (TELE) – 39° (WIDE) |
| Maximum Aperture Ratio | 1 : 1.6 (WIDE) – 1 : 4.5 (TELE)  |
| Focus Range            | 3 m {118-1/8 inches} – ∞   |

### DORI

|                            |  |
|----------------------------|--|
| Detect (25ppm / 8ppf)      | Wide: 60.3m / 197.8 ft, Tele: 2095.2 m / 6873.9 ft |
| Observe (62.5ppm / 19ppf)  | Wide: 24.1 m / 79.1 ft, Tele: 838.1 m / 2749.5 ft  |
| Recognize (125ppm / 38ppf) | Wide: 12.1 m / 39.6 ft, Tele: 419.0 m / 1374.8 ft  |
| Identify (250ppm / 76ppf)  | Wide: 6.0m / 19.8 ft, Tele: 209.5 m / 687.4 ft     |

### System on Chip (SoC)

|                      |                 |
|----------------------|-----------------|
| System on Chip (SoC) | Ambarella CV25M |
|----------------------|-----------------|

### Adjusting Angle

|                 |  |
|-----------------|--|
| Adjusting Angle | Horizontal : 360° Endless Panning, Vertical : -25 to +205°, Yaw : 0° |
|-----------------|--|

### Pan/tilt

|                  |  |
|------------------|--|
| Panning Range    | 360° Endless Panning   |
| Panning Speed    | Manual: Approx. 0.065°/s – 150°/s<br>Preset: Up to approx. 500°/s            |
| Tilting Range    | Operational -25 – +205°  |
| 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<br>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  |
| Resolution H.265/ H.264 JPEG (MJPEG) | [16 : 9 mode (60 fps mode)]*2 , [16 : 9 mode (30 fps mode)],<br>[16 : 9 mode (50 fps mode)] , [16 : 9 mode (25 fps mode)]<br>1920x1080, 1280x720, 640x360, 320x180<br>[4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)]<br>1280x960, VGA, QVGA<br>[4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)]<br>2048x1536*4 , 1280x960, VGA, QVGA |
| H.265/H.264                          | [Transmission Mode]<br>Constant bit rate / VBR / Frame rate / Best effort<br>[Transmission Type]<br>Unicast port (AUTO) / Unicast port (MANUAL) / Multicast  |
| JPEG                                 | [Image Quality]<br>10 steps  |

|                                   |  |
|-----------------------------------|--|
| Smart Coding                      | GOP (Group of pictures) control:<br>Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/<br>Advanced(Fixed GOP 60s w/1s key-frame)/<br>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: On(High)/On(Low)/Off, Smart P-picture control: On/Off                                   |
| Audio Compression                 | G.726 (ADPCM) : 16 kbps / 32 kbps<br>G.711 : 64 kbps<br>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,<br>DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDP<br>IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP,<br>DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP,<br>IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP, NTCL                                     |
| No. of Simultaneous Users         | Up to 14 users (Depends on network conditions)   |
| Secure                            | FIPS 140-2 level 3 Certified Secure Element (NXP® EdgeLock® SE050F), Device Certificate<br>GlobalSign® pre-installed,<br>User authentication, Host authentication, HTTPS, 802.1X Support, Data encryption  |
| SDXC/SDHC/SD Memory Card (Option) | H.265 / H.264 recording :<br>Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure<br>JPEG recording :<br>Manual REC / Alarm REC (Pre/Post) / Backup upon network failure<br>Compatible SDXC/SDHC/SD Memory Card :<br>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), Android™ terminals  |
| ONVIF® Profile                    | G / M / S / T  |

#### Alarm

|               |   |
|---------------|---|
| Alarm Source  | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm  |
| Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification,<br>HTTP alarm notification Indication on browser, TCP alarm notification output |

#### Input/Output

|                        |  |
|------------------------|--|
| Audio Input            | ø3.5 mm stereo mini jack<br>For microphone input : Recommended applicable microphone : Plug-in power type<br>(Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz))<br>Input impedance : Approx. 2 kΩ (unbalanced)<br>Supply voltage : 2.5 V ±0.5 V<br><br>For line input : Input level : Approx. -10 dBV |
| Audio Output           | ø3.5 mm stereo mini jack (monaural output)<br>Output impedance : Approx. 600 Ω (unbalanced)<br>Output level : -20 dBV  |
| External I/O Terminals | ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)<br>ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)   |

#### 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  |
| Power Source and Power Consumption | DC12 V, PoE (IEEE802.3af)<br>DC12 V: 970 mA / Approx. 11.6 W<br>PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0device) |
| 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)                              |
| Anti-Condensation System   | —   |
| Dimensions                 | ø185 mm x 214 mm (H) {ø7-9/32 inches x 8-7/16 inches (H)} |
| Mass (Approx.)             | Approx. 1.8 kg {3.97 lbs.}                                |
| Finish                     | Main body : Resin, i-PRO white                            |

| AI Analytics applications          |     |
|------------------------------------|-----|
| AI Video Motion Detection (AI-VMD) | YES |
| AI Privacy Guard                   | YES |
| AI Face Detection                  | YES |
| AI People Detection                | YES |
| AI Vehicle Detection               | YES |
| AI Non mask Detection              | YES |
| AI Occupancy Detection             | YES |

## 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/Accessory_Selector).



WV-QDC100G-W  
Dome Cover



WV-QDC100C-W  
Dome Cover



WV-QWL100-W  
Wall Mount Bracket



PAPM4W  
Pole Mount Bracket



PACA4W  
Corner Mount Adapter  
Bracket



WV-QCL101-W  
Mount Bracket



WV-QEM101-W  
Ceiling Mount Bracket



WV-Q105A  
Mount Bracket

# APPEARANCE

