

### WV-X66300-Z4LS

2MP Outdoor 40x PTZ Network Camera with AI engine

### Rapid PTZ camera with AI engine and IR-LED



- 2MP 40x PTZ camera
- Innovative New Form Factor PTZ
- Up to 2 Edge Al analytic apps
- Al auto tracking
- Built-in IR-LED (250m/820ft)
- High speed Pan/Tilt drive (Pan: 700deg./s, Tilt: 500deq./s)
- Heavy salt damage resistance specifications (ISO 14993 compliant)
- IP66, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

Precautions for heavy salt damage resistance

Learn More























# **SPECIFICATIONS**

| Camera   |  |
|--|--|
| Image Sensor   | Approx. 1/2.8 type CMOS image sensor   |
| Scanning Area  | 5.57 mm (H) × 3.13 mm (V)<br>{7/32 inches (H) × 1/8 inches (V)}  |
| Minimum Illumination                                 | Color: 0.011 lx (30IRE, F1.6, 1/30s) Color: 0.015 lx (50IRE, F1.6, 1/30s) BW: 0.006lx (50IRE, F1.6, 1/30s) BW: 0 lx (50IRE, F1.6, 1/30s with IR LED)   |
| White Balance  | ATW1 / ATW2 / AWC  |
| Shutter Speed  | [60fps mode] 1/60 Fix to 1/10000 Fix<br>[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<br>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<br>(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<br>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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On) / Auto3 (SCC)  |
| IR LED Light   | High/ Middle/ Low/ Off  Maximum irradiation distance: 350 m {Approx. 1150 ft} (30IRE)* 250 m {Approx. 820 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 areas available  |
| Audio Detection                                      | On / Off   |
| Al Sound Classification                              | Gunshot, Yell, Vehicle horn, Glass break   |
| Al Analytics   | Al Video Motion Detection, Al Face Detection,<br>Al People Detection, Al Vehicle Detection,<br>Al Non mask Detection, Al Occupancy Detection, Al 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   |

| Camera Tele (OSD)   | VIQS                       | On / Off, Up to 8 zones available   |
|---|----------------------------|---|
| Detect   Paper   Paper   Paper  | Image Stabilizer           | On / Off (Built-in gyro sensor)   |
| Detect 200m   | Camera Title (OSD)         | On / Off, Up to 40 characters (alphanumeric characters, marks)                    |
| Detect 200m   | Lens                       |   |
| Focal length  |                            | 40x (Motorized zoom / Motorized Focus)  |
| Angular Field of View [16: 9 mode] Horizontal: 2.0" (TELE) – 65" (WIDE), Vertical: 1.2" (TELE) – 39" (WIDE) (TBD) [4: 3 mode] Horizontal: 1.5" (TELE) – 51" (WIDE), Vertical: 1.2" (TELE) – 39" (WIDE) (TBD) [18D) [18D] [18D | Extra zoom                 |   |
| [4 : 3 mode] Indizontal : 1.5" (TELE) – 51" (WIDE), Vertical : 1.2" (TELE) – 39" (WIDE) (TRD)  Maximum Aperture Ratio  1: 1.6 (WIDE) – 1: 4.95 (TELE)  70.00 model  | Focal length               | 4.25 - 170 mm {5/32 inches - 6-11/16 inches}                                      |
| Focus range  3.0 m (118-1/8 inches) - ∞  Aperture range  F1.6 - close  P1.6 - close  DORI  Detect (25ppm / 8ppf)  Wide: 60.3 m / 197.8 ft, Tele: 219.9 m / 727.6 ft  Wide: 24.1 m / 79.1 ft, Tele: 880.0 m / 2887.1 ft  Recognize (125ppm / 38ppf)  Wide: 22.1 m / 39.6 ft, Tele: 440.0 m / 1443.5 ft  Tele: 220.0 m / 75ppt)  Wide: 22.1 m / 39.6 ft, Tele: 220.0 m / 721.8 ft  System on Chip (SoC)  System on Chip (SoC)  Ambarella CV25m  Adjusting Angle  Adjusting Angle  Horizontal : 360° Endless Panning, TiLT : -20° to +90°, Yaw : 0°  Pan / kit  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 Clear Sight  Yes  Browser *1  Microsoft Edge, Firefox. Google Chrome  Network   | Angular Field of View      |   |
| Aperture range  | Maximum Aperture Ratio     | 1:1.6 (WIDE) -1:4.95 (TELE)   |
| Doki  Detect (25ppm   8ppf)   | Focus range                | 3.0 m {118-1/8 inches} -∞   |
| Detect (25ppm / 8ppf) Wide: 60.3 m / 1928 ft. Tele: 2199.9 m / 72176 ft  Observe (62.5ppm / 19ppf) Wide: 22.1 m / 79.1 ft. Tele: 880.0 m / 28871 ft  Recognize (125ppm / 38ppf) Wide: 12.1 m / 39.6 ft. Tele: 440.0 m / 1443.5 ft  Identify (250ppm / 76ppf) Wide: 6.0 m / 19.8 ft. Tele: 220.0 m / 721.8 ft  System on Chip (SoC)  System on Chip (SoC) Ambarella CV25m  Adjusting Angle  Adjusting Angle  Horizontal: 360° Endless Panning. TiLT: -20° to +90°, Vaw: 0°  Pan / tilt  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  GUI / Setup Menu Language English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese  Nicrosoft Edge, Firefox, Google Chrome  | Aperture range             | F1.6 - close  |
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| Tele: 880.0 m / 28871 ft  Recognize (125ppm / 38ppf)  Wide: 12.1 m / 39.6 ft. Tele: 440.0 m / 1443.5 ft  Wide: 6.0 m / 19.8 ft. Tele: 220.0 m / 721.8 ft  System on Chip (SoC)  System on Chip (SoC)  Ambarella CV25m  Adjusting Angle  Adjusting Angle  Horizontal: 360° Endless Panning, TiLT: -20° to +90°, Yaw: 0°  Pan /tit  Panning Range  360° Endless Panning  Panning Range  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 CUI  GUI / Setup Menu Language  English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese  Browser ¹1  Microsoft Edge, Firefox, Google Chrome   | Detect (25ppm / 8ppf)      |   |
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| 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  GUI / Setup Menu Language English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese  Browser *1 Microsoft Edge, Firefox, Google Chrome   | Panning Range              | 360° Endless Panning  |
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| Active ClearSight  Yes  Browser GUI  GUI / Setup Menu Language English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese  Browser *1 Microsoft Edge, Firefox, Google Chrome  Network  | Auto Mode                  | Auto track/ Auto pan/ Preset sequence/ Patrol                                     |
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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   | Active ClearSight          | Yes   |
| Browser *1 Microsoft Edge, Firefox, Google Chrome  Network  | Browser GUI                |   |
| Network   | GUI / Setup Menu Language  | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
|   | Browser *1                 | Microsoft Edge, Firefox, Google Chrome  |
|   | Network                    |   |
|   |                            | 10Base-T / 100Base-TX, RJ45 connector   |

| 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<br>G.711 : 64 kbps<br>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, 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 (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,<br>iPhone (iOS 8.0 or later),<br>Android™ terminals  |
| ONVIF® Profile                        | G / M / S / T  |
| Alorm                                 |  |
| 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                          |  |
| 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 k $\Omega$ (unbalanced) Supply voltage: 4.0V $\pm$ 0.5V For line input : Input level : Approx. $-$ 10 dBV  |

| Audio Output *4           | ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. $600\Omega$ (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) |
| 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: 850mA/Approx.45.9W (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: $\phi$ 167mm × 205 mm (H) { $\phi$ 6-9/16 inches × 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 (Heavy-salt damage resistance coating), 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)



WV-QWL501S-W Wall Mount Bracket



WV-QSR506S-W Mount Bracket



WV-QCL501S-W Ceiling 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

**O** 



## **APPEARANCE**

