

## WV-X25700-V2LN

4K Vandal Resistant Outdoor Dome Network Camera with Al engine

## X-series dome camera with powerful cutting edge AI



- 4K Outdoor Vandal Dome camera
- Up to 9 Edge AI analytic apps
- Compatible with AI On-site learning app
- Enables AI image analysis on non-AI cameras (with AI Processing Relay app)
- IP66, IP67, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant























# **SPECIFICATIONS**

Camera		
Image Sensor	Approx. 1/1.8 type CMOS image sensor	
Scanning Area	7.68 mm (H) × 4.32 mm (V) {5/16 inches (H) × 5/32 inches (V)}	
Minimum Illumination	Color: 0.04 lx (30IRE, F1.5, 1/30s) Color: 0.06 lx (50IRE, F1.5, 1/30s) BW: 0.03 lx (50IRE, F1.5, 1/30s) BW: 0 lx (50IRE, F1.5, 1/30s with IR LED)	
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	
Maximum Shutter	[60 fps mode] Max. 1/4000 s to Max. 16/30 s [30 fps/ 15 fps mode] Max. 1/4000 s to Max. 16/30 s [50 fps mode] Max. 1/4000 s to Max. 16/25 s [25 fps/ 12.5 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)	
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) *only when Super Dynamic/ Intelligent Auto: Off	
Fog Compensation	On/Off (Range : 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 Illumination	High/ Middle/ Low/ Off Maximum irradiation distance: 70 m {Approx. 230 ft} (30IRE)* 50 m {Approx. 164 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 area available	

Al Sound Classification  Selectable from Gunshot, Yell, Vehicle horn, Class break  Al Anaytics  Al Video Motion Detection, Al Privacy Guard, Al Face Detection, Al People Detection, Al On-site Learning, Al From Selection, Al Occupancy Detection, Al Scene Change Detection, Al On-site Learning, Al From Selection, Al Occupancy Detection, Al Scene Change Detection, Al On-site Learning, Al From Selection, Al Occupancy Detection, Al Scene Change Detection, Al On-site Learning, Al From Selection, Al From Sele	essing
Non mask Detection, Al Occupancy Detection, Al Scene Change Detection, Al On-site Learning, Al Proc Relay	essing
https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list Privacy Zone	t 
ViQS On/Off Up to 8 zones available Image Rotation 0° (Off) 90° / 180° (Upside-down) / 270° Image Stabilizer On/Off (Built-in gyro sensor) Image Stabilizer On/Off (Built-in gyro sensor) Camera Title (OSD) On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)  Lens  Optical Zoom 2.0x (Motorized zoom / Motorized Focus)  Extra Zoom max 12.0x (2.0x − 12.0x when resolution is 640x360)  Digital (electronic) Zoom -  Focal Length 4.3 mm − 8.6 mm (5/32 inches − 11/32 inches)  Angular Field of View l[16:9 mode] Horizontal : 52° (TELE) − 101° (WIDE) Vertical : 29° (TELE) − 55° (WIDE)  Maximum Aperture Ratio 1:1.5 (WIDE) − 1.2.4 (TELE)  Focus Range 1.0 m (39−3/8 inches) − ∞  Aperture Range F1.5 − close  DORI  Detect (25ppm / 8ppf) 63.3m (20.77t) (WIDE) 157.5m (516.6ft) (TELE)  Recognize (125ppm / 38ppf) 12.7m (41.5ft) (WIDE) 31.5m (103.3ft) (TELE)  Recognize (125ppm / 38ppf) 12.7m (41.5ft) (WIDE) 31.5m (103.3ft) (TELE)	
Up to 8 zones available           Image Rotation         0° (Off)/ 90°/ 180° (Upside-down) / 270°           Image Stabilizer         On/Off (Built-in gyro sensor) Available only in the 30 fps mode           Camera Title (OSD)         On/Off (Built-in gyro sensor) Available only in the 30 fps mode           Lens           Lens           Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)           Lens           Up to 2 lines (alphanumeric characters, marks)           Lens <td></td>	
Image Stabilizer  On/Off (Built-in gyro sensor) Available only in the 30 fps mode  Camera Title (OSD)  On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)  Lens  Optical Zoom  Optical Zoom  Optical Zoom  Max 12.0x (2.0x - 12.0x when resolution is 640x360)  Digital (electronic) Zoom  -  Focal Length  4.3 mm − 8.6 mm (5/32 inches − 11/32 inches)  Angular Field of View  [16:9 mode] Horizontal: 52°(TELE) − 101°(WIDE) Vertical: 29°(TELE) − 55°(WIDE)  Maximum Aperture Ratio  1.1.5 (WIDE) − 1:2.4 (TELE)  Focus Range  1.0 m (39−3/8 inches) − ∞  Aperture Range  F1.5 − close  Detect (25ppm / 8ppf)  63.3m (2077ft) (WIDE) 63.0m (206.6ft) (TELE)  Recognize (125ppm / 38ppf)  1.2.7m (41.5ft) (WIDE) 31.5m {103.3ft} (TELE)  Title (SID)  Title (SID)  Available only in the 30 fps mode (Available only in the 40 fps mode (Available only in the 40 fps mode (Available only in the 40 fps mode) (Available only	
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Solution	
Horizontal : 52° (TELE) - 101° (WIDE) Vertical : 29° (TELE) - 55° (WIDE)  Maximum Aperture Ratio 1:1.5 (WIDE) - 1:2.4 (TELE)  Focus Range 1.0 m {39-3/8 inches} - ∞  Aperture Range F1.5 - close  DORI  Detect (25ppm / 8ppf) 63.3m {207.7ft} (WIDE) 157.5m {516.6ft} (TELE)  Observe (62.5ppm / 19ppf) 25.3m {83.1ft} (WIDE) 63.0m {206.6ft} (TELE)  Recognize (125ppm / 38ppf) 12.7m {41.5ft} (WIDE) 31.5m {103.3ft} (TELE)	
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Recognize (125ppm / 38ppf) 12.7m {41.5ft} (WIDE) 31.5m {103.3ft} (TELE)	
Identify (250ppm / 76ppf) 6.3m {20.8ft} (WIDE) 15.7m {51.7ft} (TELE)	
System on Chip	
System on Chip (SoC) Ambarella CV52	
Adjusting Angle	
Adjusting Angle  Horizontal (PAN) angle: -194°to +166°  Vertical (TILT) angle: -30°to +85°  Azimuth (YAW) angle: ±100°	
Browser GUI	
GUI / Setup Menu Language English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese	
Browser *1 Microsoft Edge, Firefox, Google Chrome	

Network ————————————————————————————————————		
Network IF	10BASE-T/100BASE-TX, RJ45 connector	
Resolution	[16:9 mode (60 fps mode)] [16:9 mode (50 fps mode)] 3840x2160/ 2560x1440 [16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)] 3840x2160/2560x1440/1920x1080/1280x720/640x360/320x180	
H.265/H.264 Transmission Mode/Type *2	[Transmission Mode] Transmission priority: Constant bit rate/ VBR/ Frame rate/ Best effort [Transmission Type] Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast	
JPEG (MJPEG) Image Quality	Image quality : 10 steps: O(SUPER FINE) - 9(LOW)	
Smart Coding	[GOP(Group of pictures) control] Off/ Low (Variable GOP 1s-8s)/Mid (Variable GOP 4s-16s)/ Frame rate control (Variable GOP 4s-16s with frame rate control) *Frame rate control is 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: 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, FTP, SFTP, LLDP, MQTT 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, FTP, SFTP, LLDP, MQTT	
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, Secure boot, Signed firmware	
SDXC/SDHC/SD Memory Card (Option)	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), AndroidTM terminals	
ONVIF®Profile	G / S / T / M	
Alarm		
Alarm Source	VMD alarm, SCD 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	
Audio Output *4	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 $\Omega$ (unbalanced) Output level: –20 dBV	
External I/O Terminals *4	ALARM IN1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN3 (Alarm input 3/ AUX OUT) (x1)	
Conoral		
General		

UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1

Safety

EMC	FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035
Power Source/Power Consumption	[Power Source] DC12 V *4, PoE+ (IEEE802.3at compliant) [Power Consumption] DC12 V : 1.2 A / Approx. 14.2 W PoE+ DC 54 V : 260 mA / Approx. 14.0 W (Class 4 device)
Ambient Operating Temperature	-40 °C to +55 °C {-40 °F to +131 °F} (Power On range: -30 °C to +55 °C {-22 °F to +131 °F})
Ambient Operating Humidity	10 % to 100 % (no condensation)
Water and Dust Resistance	IP66/ IP67 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant
Shock Resistance	50J(IEC 60068-2-75 compliant), IK10(IEC62262)
Wind Resistance	Up to 40 m/s {approx. 89 mph}
Dimensions	ø154 mm × 105 mm (H) {ø6-1/16 inches ×4-1/8 inches (H)} Dome radius 42 mm {1-21/32 inches} (excluding an attachment for the conduit portion)
Mass (approx.)	Approx. 1.1 kg {2.43 lbs} (excluding an attachment for the conduit portion)
Finish	Main body: Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Dome cover: PC resin, Clear(with ClearSight coating)

### **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.

#### 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-QWL501-W Mount Bracket



WV-QWL500-W Mount Bracket



WV-QSR501M1-W Mount Bracket



WV-QSR501M-W Mount Bracket



WV-QSR501F1-W Mount Bracket



WV-QSR501F-W Mount Bracket



WV-QSR501-W Mount Bracket



WV-QSR500-W Sun Shade



WV-QPL500-W Mount Bracket



WV-QJB504-W Base Bracket



WV-QJB501-W Base Bracket



WV-QJB500-W Mount Bracket



WV-QEM500-W Mount Bracket



WV-QCN500-W Mount Bracket



WV-QCL501-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-QCL100-W Mount Bracket



WV-Q105A Mount Bracket



PWM485W Wall Mount and Shroud



PS485W Shroud



PPRM35W
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-QCA500A RJ45 Ethernet Cable



WV-QDC504C Dome Cover



WV-CW7SN Dome cover



WV-CW7S Dome cover



WV-CW7CN Dome cover



WV-PM500 Compact microphone unit for surveillance cameras



## **APPEARANCE**



