

# WV-X25500-V3LN

5MP Outdoor Dome Network Camera with AI engine

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



- 5MP Outdoor 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

[Learn More](#)

# SPECIFICATIONS

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Scanning Area	5.12 mm (H) × 3.84 mm (V) {3/16 inches (H) × 5/32 inches (V)}
Minimum Illumination	Color : 0.03 lx (30IRE, F1.3, 1/30s, AGC:11)* 0.04 lx (50IRE, F1.3, 1/30s, AGC:11) 0.003 lx (50IRE, F1.3, 16/30s, AGC:11)*  BW : 0 lx (50IRE, F1.3, 1/30s, AGC:11, IR LED: On) 0.02 lx (50IRE, F1.3, 1/30s, AGC:11) 0.002 lx (50IRE, F1.3, 16/30s, AGC:11)* *Converted value
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
Audio Detection	On/ Off

AI Sound Classification	Selectable from 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 (prior to V3.30), AI Occupancy Detection, AI Scene Change Detection  For details: <a href="https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software">https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software</a> 3rd party applications are also available. <a href="https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list">https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list</a>
Privacy Zone	On/Off, Up to 8 zones available Color: gray/white/blue/green/red/black, or mosaic
VIQS	On/Off, Up to 8 zones available
Image Rotation	0° (Off) / 90° / 180° (Upside-down) / 270°
Image Stabilizer	On/Off, 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	3.1x (Motorized zoom / Motorized focus)
Extra Zoom	max 12.4x (3.1x - 12.4x when resolution is 640x360)
Digital (electronic) Zoom	-
Focal Length	2.9 mm – 9 mm {1/8 inches – 11/32 inches}
Angular Field of View	[16:9 mode] Horizontal : 33 ° (TELE) - 103 ° (WIDE) Vertical : 19 ° (TELE) - 55 ° (WIDE) [4:3 mode] Horizontal : 33 ° (TELE) - 103 ° (WIDE) Vertical : 25 ° (TELE) - 75 ° (WIDE)
Maximum Aperture Ratio	1:1.3(WIDE) - 1:2.5(TELE)
Focus Range	0.3 m {11-13/16 inches} - ∞
Aperture Range	F1.3 - close

DORI	
Detect (25ppm / 8ppf)	48.9m {160.3ft} (WIDE) 207.4m {680.5ft} (TELE)
Observe (62.5ppm / 19ppf)	19.5m {64.1ft} (WIDE) 83.0m {272.2ft} (TELE)
Recognize (125ppm / 38ppf)	9.8m {32.1ft} (WIDE) 41.5m {136.1ft} (TELE)
Identify (250ppm / 76ppf)	4.9m {16.0ft} (WIDE) 20.7m {68.1ft} (TELE)

System on Chip	
System on Chip (SoC)	Ambarella CV52

Adjusting Angle	
Adjusting Angle (Fixed camera)	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 (60fps mode)] [16:9 mode (50fps mode)] 3072x1728*/ 2560x1440 [16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)] 3072x1728*/ 2560x1440/ 1920x1080/ 1280x720/ 640x360/ 320x180 [4:3 mode (60 fps mode)] [4:3 mode (50 fps mode)] 3072x2304*/ 2560x1920 [4:3 mode (30 fps mode)] [4:3 mode (25 fps mode)] 3072x2304*/ 2560x1920/ 1280x960/ 800x600/ VGA/ 400x300/ QVGA  *Used by super resolution techniques.
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	10 steps: 0(SUPER FINE) - 9(LOW)
Smart Coding	[GOP(Group of pictures) control] 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) *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 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), Android™ terminals
ONVIF®Profile	G / S / T / M

Alarm	
Alarm Source	3 terminals input, 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 Ω (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)
Monitor Output	Yes (for adjustment) Pin jack, NTSC or PAL signal can be output from camera

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 and 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})  * 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/ 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 \(i-pro.com\)](http://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



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

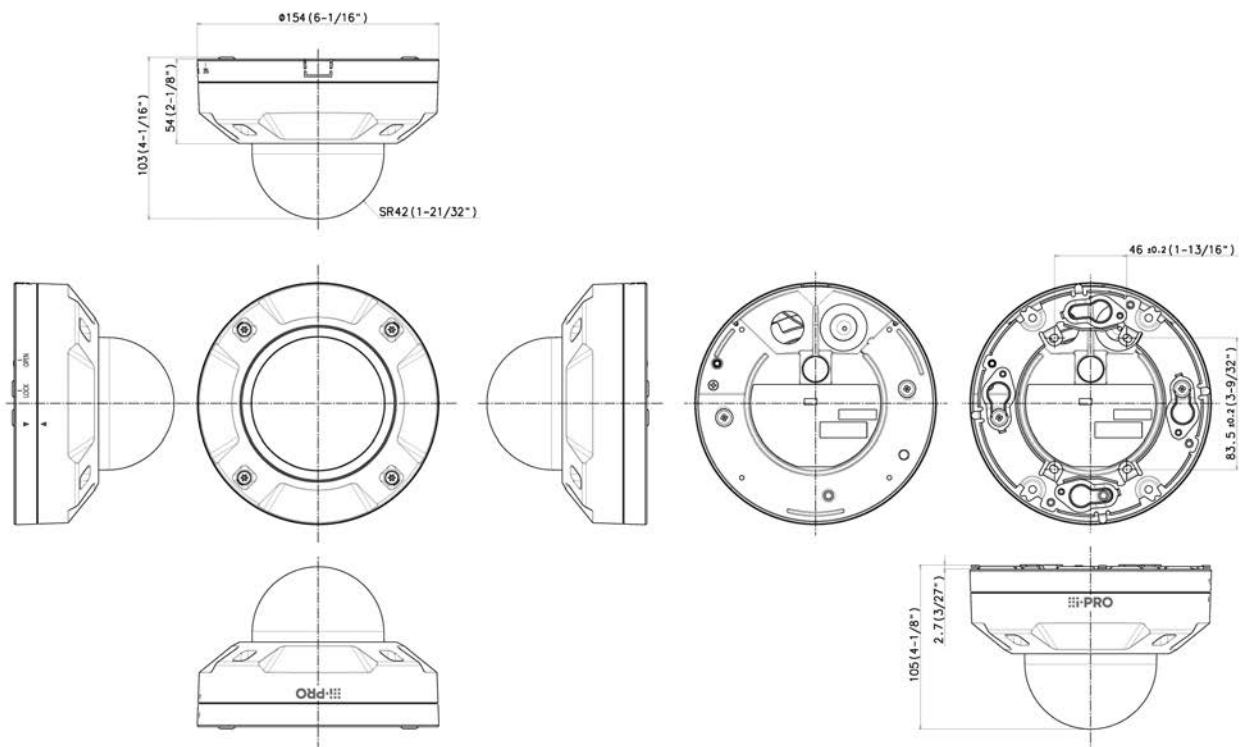


WV-CW7CN  
Dome cover



WV-PM500  
Compact microphone  
unit for surveillance  
cameras

## APPEARANCE



側面図/Side-view: 投影面積/Projected area  
0.011 (m<sup>2</sup>)  
Mass: Approx. 1.1 kg (2.43 lbs)  
(Excluding attachment for the conduit portion)

With Attachment plate

Unit:mm