

WV-X22500-V3L

5MP Indoor Dome Network Camera with AI engine

X-series dome camera with powerful cutting edge AI



- 5MP Indoor 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)
- IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant



















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) Color: 0.04 lx (50IRE, F1.3, 1/30s) BW: 0.02 lx (50IRE, F1.3, 1/30s) BW: 0 lx (50IRE, F1.3, 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	
Audio Detection	On/ Off	
Al Sound Classification	Selectable from Gunshot, Yell, Vehicle horn, Glass break	

Al Anaytics	Al Video Motion Detection, Al Privacy Guard, Al Face Detection, Al People Detection, Al Vehicle Detection, Al Non mask Detection, Al Occupancy Detection, Al Scene Change Detection, Al On-site Learning, Ai Processing Relay
	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 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) - 105° (WIDE) Vertical: 19° (TELE) - 56° (WIDE) [4:3 mode]
	Horizontal: 33 ° (TELE) - 105 ° (WIDE) Vertical: 25 ° (TELE) - 76 ° (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)	47.1m {154.7ft} (WIDE) 207.4m {680.5ft} (TELE)
Observe (62.5ppm / 19ppf)	18.9m {61.9ft} (WIDE) 83.0m {272.2ft} (TELE)
Recognize (125ppm / 38ppf)	9.4m {30.9ft} (WIDE) 41.5m {136.1ft} (TELE)
Identify (250ppm / 76ppf)	4.7m {15.5ft} (WIDE) 20.7m {68.1ft} (TELE)
System on Chip	
System on Chip (SoC)	Ambarella CV52
Adjusting Angle	
Adjusting Angle (Fixed camera)	Horizontal (PAN) angle: -240°to +120° 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: O(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), AndroidTM terminals
ONVIF®Profile	G/S/T/M
Alarm	
Alarm Source	3 terninals 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)
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	-10 °C to +50 °C {14 °F to 122 °F} (Power On range: 0 °C to 50 °C {32 °F to 122 °F})
Ambient Operating Humidity	10 % to 90 % (no condensation)
Shock Resistance	IK10(IEC 62262)
Dimensions	ø129.5 mm × 102.5 mm (H) {ø5-3/32 inches ×4-1/32 inches (H)} Dome radius 41.5 mm {1-5/8 inches}
Mass (approx.)	Approx. 820 g {1.9 lbs}
Finish	Main body: Aluminum die cast, i-PRO white Dome cover: PC resin, Clear

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) .

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-QSR100-W Sun Shade



WV-QPL500-W Mount Bracket



WV-QJB500-W Mount Bracket



WV-QEM100-W Mount Bracket



WV-QCN500-W Mount Bracket



WV-QCL501-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-QCL100-W Mount Bracket



WV-QAT501-W Attachment Pipe Bracket



WV-QAT500-W Attachment pipe



WV-Q105A Mount Bracket









WV-QDC200C Dome Cover



WV-CR1S Dome Cover



WV-SDB128G

i-PRO SD Memory Card

WV-SDB064G i-PRO SD Memory Card

WV-SDB032G i-PRO SD Memory Card

WV-PM500

Compact microphone unit for surveillance cameras



APPEARANCE

