

### WV-U21350-V3L

2MP AI Indoor IR Dome Camera (3.2x zoom)

# U-series dome camera with edge AI image analytics



- 2MP Indoor dome camera
- Al-based image analytics using Al-VMD app
- Audio recording
- 3.2x optical zoom
- Built-in IR LED (42m/138ft)
- IP42 compliant
- Built-in FIPS 140-3 Level 3 Certified
   SecureElement (EdgeLock® SE052F NXP® Semiconductors)
- NDAA Compliant



# **SPECIFICATIONS**

Image Sensor	Approx. 1/2.8 type CMOS image sensor
Scanning Area	5.57 mm (H) × 3.13 mm (V) {7/32 inches (H) × 1/8 inches (V)}
Minimum Illumination	Color: 0.05 lx (30IRE, F1.6, 1/30 s, AGC: 11)* 0.06 lx (50IRE, F1.6, 1/30 s, AGC: 11) 0.004 lx (50IRE, F1.6, 16/30 s, AGC: 11)* BW: 0 lx (50IRE, F1.6, 1/30 s, AGC: 11, IR LED: On) 0.03 lx (50IRE, F1.6, 1/30 s, AGC: 11) 0.002 lx (50IRE, F1.6, 16/30 s, AGC: 11)* * Converted value
White Balance	ATW1/ ATW2/ AWC
Shutter Speed	[30 fps mode] 1/30 Fix to 1/10000 Fix [25 fps mode] 1/25 Fix to 1/10000 Fix
Maximum Shutter	[30 fps mode] Max. 1/4000 s to Max. 16/30 s [25 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. 120 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	Back light compensation (BLC) / High light compensation (HLC) / 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 LED Light	Maximum irradiation distance: 42 m {Approx. 138 ft} (30IRE)* 30 m {Approx. 98 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
Analytics	Al Video Motion Derection  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
Maximum No. of Applications	1
Privacy Zone	On/Off (Up to 8 zones available)

VIQS	On/Off (Up to 8 zones available)
Image Rotation	0° (Off)/ 90°/ 180° (Upside-down)/ 270°
Camera Title (OSD)	On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)
Lens	
Optical Zoom	3.2x (Motorized zoom / Motorized focus)
Digital (electronic) Zoom	max 9.6x
Focal Length	3.2 mm – 10.2 mm {1/8 inches – 13/32 inches}
Angular Field of View	[16:9 mode] Horizontal: 30° (TELE) – 112° (WIDE) Vertical: 17° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 23° (TELE) – 79° (WIDE) Vertical: 17° (TELE) – 57° (WIDE)
Adjusting Angle	Horizontal (PAN) angle: -105 ° to +255 ° Vertical (TILT) angle: -30 ° to +85 ° Azimuth (YAW) angle: -100 ° to +100 °-
Maximum Aperture Ratio	1:1.6 (WIDE) – 1:3.2 (TELE)
Focus Range	2.0m {78-3/4 inches} – ∞
Aperture Range	F1.6 - close
DORI	
Detect (25ppm / 8ppf)	143.3m {470.2ft} (TELE) 25.9m {85ft} (WIDE)
Observe (62.5ppm / 19ppf)	57.3m {188.1ft} (TELE) 10.4m {34ft} (WIDE)
Recognize (125ppm / 38ppf)	28.7m {94ft} (TELE) 5.2m {17ft} (WIDE)
Identify (250ppm / 76ppf)	14.3m {47ft} (TELE) 2.6m {8.5ft} (WIDE)
Contain on Chin	
System on Chip System on Chip (SoC)	Ambarella CV25M
system on emp (soc)	Allibatetta CV25ivi
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	[16:9mode(30fps mode)][16:9mode(25fps mode)] 1920x1080/1280x720/640x360/320x180 [4:3mode(30fps mode)][4:3mode(25fps mode)] 1280x960/640x480/320x240
H.265/H.264 Transmission Priority/Type	[Transmission priority] Constant bit rate/ VBR/ Frame rate/ Best effort [Transmission type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
No. of Stream	4
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 *2	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 140-3 level 3 (NXP® EdgeLock® SE052F), 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 / M / S / T
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	ø3.5 mm stereo mini jack [For microphone input] Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: –51 dB to –38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 k $\Omega$ (unbalanced) Supply voltage: 2.5 V ±0.5 V [For line input] Input level: Approx10 dBV
Audio Output	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 $\Omega$ (unbalanced) Output level: -20 dBV
External I/O Terminals	-
Monitor Output	
General	
Safety	UL (UL62368-1 3Ed), c-UL (CAN/CSA C22.2 NO.62368-1-19), IEC62368-1 3Ed.
EMC	FCC Part15 Subpart B ClassA, ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035
Power Source / Power Consumption	[Power Source] PoE (IEEE802.3af Compliant) [Power Consumption] PoE DC 48 V : 200 mA / Approx. 9.6 W (Class 0 device)
Ambient Operating Temperature	-10 °C to +50 °C {+14 °F to +122 °F}
Ambient Operating Humidity	10 % to 90 % (no condensation)
Water and Dust Resistance	IP42 Conformity
Dimensions	ø129.5 mm x 102 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)} Dome radius 40 mm {1-9/16 inches}
Mass (approx.)	Approx. 380 g {0.84 lbs}
Finish	Main body: ABS resin, i-PRO white) Dome cover: Acrylic resin, Clear

Easy Kitting Supported

### **NOTES**

\*1 For information on the operation verification of the web browsers, refer to our support website <Control No.: C0132>.

\*2 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-QWL500-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-QCL101-W Mount Bracket



WV-QCL100-W Mount Bracket



WV-Q105A Mount Bracket



WV-QDC101C Dome Cover



WV-PM500 Compact microphone unit



WV-CF5SA Dome Cover











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



# **APPEARANCE**

