WV-U22301-F3L

2MP Indoor Vandal IR Dome Camera

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- 2MP Indoor vandal dome camera
- Standard video motion detection using i-VMD
- Audio recording with built-in microphone
- Built-in IR LED (42m/138ft)
- IP42, IK10 certified
- Built-in FIPS 140-3 Level 3 Certified SecureElement (EdgeLock® SE052F NXP® Semiconductors)
- NDAA Compliant

SPECIFICATIONS

Camera	
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 : 0.07 lx (30IRE, F2.0, 1/30 s, AGC: 11)* 0.09 lx (50IRE, F2.0, 1/30 s, AGC: 11) 0.006 lx (50IRE, F2.0, 16/30 s, AGC: 11)* BW : 0 lx (50IRE, F2.0, 1/30 s, AGC: 11, IR LED: On) 0.04 lx (50IRE, F2.0, 1/30 s, AGC: 11) 0.003 lx (50IRE, F2.0, 16/30 s, AGC: 11)* * Converted value
White Balance	ATW1/ ATW2/ AWC
Maximum Shutter	[30 fps mode] Max. 1/10000 s to Max. 16/30 s [25 fps mode] Max. 1/10000 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	High/Middle/Low/Off 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
AI Sound Classification	-
Analytics	i-VMD
Maximum No. of Applications	1 (Non AI app)
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	-
Digital (electronic) Zoom	max 3.0x
Focal Length	3.2 mm {1/8 inches}
Angular Field of View	[16:9 mode] Horizontal: 105° Vertical: 57° [4:3 mode] Horizontal: 77 Vertical: 57°
Adjusting Angle (Fixed camera)	Horizontal(PAN) angle: -175 ° to +175 ° Vertical(TILT) angle: -30 ° to +80 ° Azimuth(YAW) angle: -100 ° to +100 °-
Maximum Aperture Ratio	1:2.0
Focus Range	1.0m {39-3/8 inches} – ∞
Aperture Range	F2.0

DORI

Detect (25ppm / 8ppf)	29.5m {96.7ft}
Observe (62.5ppm / 19ppf)	11.8m {38.7ft}
Recognize (125ppm / 38ppf)	5.9m {19.3ft}
Identify (250ppm / 76ppf)	2.9m {9.7ft}

System on Chip	
System on Chip (SoC)	Ambarella S6LM

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: 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. [Auto VIQS] 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 input
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, IGMPv3, 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 / 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	
Built-in Microphone	Nondirectional electret condenser microphone
Audio Input	[For microphone input] - [For line input] -
Audio Output	-
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 (IEC 60529)

Shock Resistance	IK10(IEC 62262)
Dimensions	ø109 mm x 62 mm (H) {ø4-9/32 inches x 2-7/16 inches (H)} Dome radius 30.5 mm {1-3/16 inches}
Mass (approx.)	Approx. 270 g {0.60 lbs}
Finish	Main body: Aluminum die cast, i-PRO white PC resin, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Dome cover: PC 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 any third-party products (including applications) 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-QPL500-W
Mount Bracket

WV-QJB502A-W
Mount Bracket

WV-QJB500-W
Mount Bracket

WV-QCN500-W
Mount Bracket

WV-QCL101-W
Mount Bracket

WV-QCL100-W
Mount Bracket

WV-QAT502-W
Gangbox Adapter

WV-Q105A
Mount Bracket

WV-QDC510G
Dome Cover

WV-QDC510C
Dome Cover

WV-SDB256G
i-PRO SD Memory Card

WV-SDB128G
i-PRO SD Memory Card

WV-SDB064G
i-PRO SD Memory Card

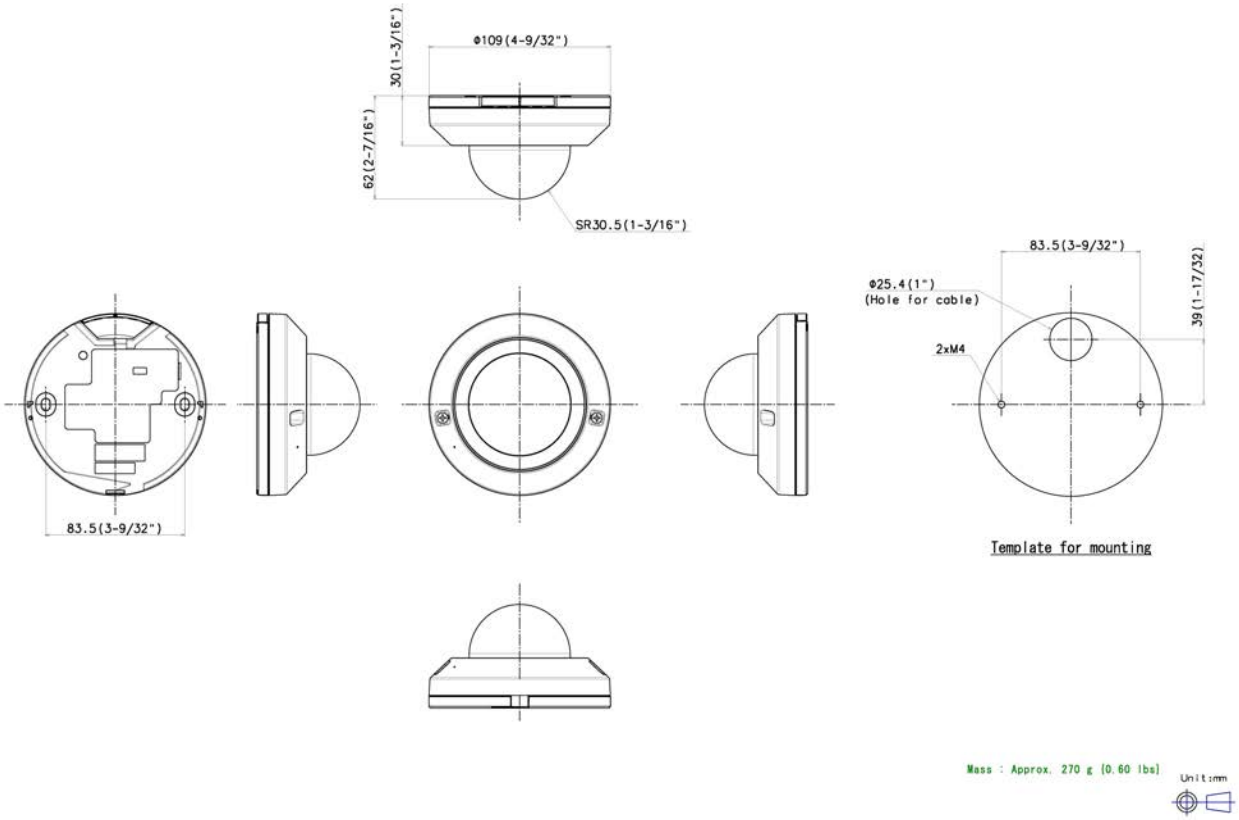
WV-SDB032G
i-PRO SD Memory Card

WJ-PU201P
PoE Injector

WJ-PU201F/G
PoE Injector

WJ-PU201/G
PoE Injector

APPEARANCE


Φ109(4-9/32")
30(1-3/16")
62(2-7/16")
SR30.5(1-3/16")
83.5(3-9/32")
83.5(3-9/32")
Φ25.4(1")
(Hole for cable)
2xM4
39(1-17/32)
Template for mounting
Mass : Approx. 270 g (0.60 lbs)
Unit:mm