

WV-U85402-V2L

2 x 4MP IR Outdoor Multi-directional Network Camera

Multi-directional dual sensor camera



- 2 x 4MP Multi-directional camera
- One IP address, One VMS license
- Built-in IR-LED (40m, 131ft)
- Wide angle of view (Horizontal 100°)
- Corridor mode (90 degrees or 270 degrees in image rotation)
- IP66, IP67, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement with TPM functionality (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

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SPECIFICATIONS

Camera		
Image Sensor	2x 1/2.7 type CMOS image sensor	
Minimum Illumination	Color: 0.21 lx (30IRE, F2.0, 1/30 s) Color: 0.3 lx (50IRE, F2.0, 1/30 s) BW: 0.12 lx {50IRE, F2.0,1/30 s} BW: 0 lx {50IRE, F2.0, 1/30 s with IR LED}	
White Balance	ATW1/ ATW2/ AWC	
Maximum shutter	30 fps mode: Max.1/10000s to Max.16/30s 25 fps mode: Max.1/10000s to Max.16/25s	
Intelligent Auto	On / Off	
Super Dynamic	On / Off, The level can be set in the range of 0 to 31.	
Dynamic Range	108 dB max. (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/ HLC/ Off The level can be set in the range of 0 to 31. (only when Super Dynamic/ Intelligent Auto: Off)	
Fog Compensation	On/ Off The level can be set in the range of 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: 40 m {Approx. 131 ft} (30IRE)* 30 m {Approx. 99 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 areas available	
Audio Detection	On/Off	
Al Sound Classification	-	
Al Analytics	-	
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)		
Focus Adjustment	Auto focus		
Lens			
Optical zoom	2.5x (Motorized zoom / Motorized focus)		
Extra zoom	max 10.5x (when resolution is 640 x 360)		
Focal length	2.9 mm{1/8 inches} - 7.3 mm{1/4 inches}		
Angular Field of View	Horizontal: 43° (TELE)-100° (WIDE) Vertical: 24° (TELE) - 56° (WIDE)		
Maximum Aperture Ratio	1: 2.0 (WIDE) -1: 3.0 (TELE)		
Focus range	1 m {3.28 ft} - ∞		
DORI			
Detect (25ppm / 8ppf)	Wide: 45.1 m / 148 ft, Tele: 136.5 m / 447.8 ft		
Observe (62.5ppm / 19ppf)	Wide: 18.0 m / 59.2 ft, Tele: 54.6 m / 179.1 ft		
Recognize (125ppm / 38ppf)	Wide: 9.0 m / 29.6 ft, Tele: 27.3 m / 89.6 ft		
Identify (250ppm / 76ppf)	Wide: 4.5 m / 14.8 ft, Tele: 13.6 m / 44.8 ft		
System on Chip (SoC)			
System on Chip (SoC)	Ambarella CV22		
Adjusting Angle			
Adjusting Angle	Camera 1, 2: Horizontal: -50° to +230° (Adjust by horizontal (PAN) angle) Vertical: +10° to +105° (Adjust by vertical (TILT) angle) Yaw: ±90° (Adjust by azimuth (YAW) angle)		
Browser GUI			
Camera Control	Brightness, AUX On / Off		
Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High		
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese		
Browser	Microsoft Edge, Firefox, Google Chrome *1		
Network			
Network IF	10BASE-T/100BASE-TX/1000BASE-T, RJ45 connector		
Resolution H.265/ H.264/ JPEG (MJPEG)	[16:9 mode] 2688 x 1520 / 2560x1440 / 1920 x 1080 / 1280 x 720 / 640×360/320×180		
H.265/H.264	[Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		
JPEG	[Image Quality] 10 steps		

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	G.726 (ADPCM) 32 kbps/16 kbps, G.711 64 kbps, AAC-LC 64kbps/96kbps/128kbps *2		
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, IEE 802.1X, DiffServ, LLDP, MQTT		
No. of Simultaneous Users	24 (Number of sessions that can connect to cameras at the same time)		
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, Signed Firmwa (V2.50 or later)		
SDXC/SDHC/SD Memory Card	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		
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 *3	ø3.5 mm stereo mini jack For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB ± 3 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 k Ω (unbalanced) Supply voltage : 2.4 V ± 0.5 V For line input : Input level: Approx. -10 dBV		
Audio Output *3	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV		
Audio Output *3 External I/O Terminals *3	Output impedance: Approx. 600 Ω (unbalanced)		
· 	Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)		
External I/O Terminals *3	Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)		
External I/O Terminals *3 Monitor Output	Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 3 (Alarm input 3/ ALARM OUT /AUX OUT) (x1)		
External I/O Terminals *3 Monitor Output Wi-Fi USB Adapter	Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 3 (Alarm input 3/ ALARM OUT /AUX OUT) (x1)		
External I/O Terminals *3 Monitor Output Wi-Fi USB Adapter General	Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 3 (Alarm input 3/ ALARM OUT /AUX OUT) (x1) - Yes (for adjustment)		

Ambient Operating Temperature	-40 °C to +60 °C* {-40 °F to 140 °F}(Power On range: -20 °C to +60 °C {-4 °F to 140 °F}) Maximum temperature according to NEMA TS 2 (2.2.7): 74°C(165°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)	
Anti-Condensation System	Temish element	
Water and Dust Resistance	IP67/IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant	
Shock Resistance	IK10 (IEC 62262)	
Wind Resistance	Up to 40 m/s {approx. 89 mph}	
Other standard support	NEMA TS 2 (2.2.7-2.2.9)	
Dimensions	When using the attachment plate only: 250 mm(D) × 150 mm (W) × 105 mm (H) {9-27/32" inches (D) × 5-29/32 inches (W) × 4-1/8 inches (H)}	
Mass (approx.)	Approx. 1.8 kg	
Finish	Main body: Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) 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 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity) .
- *3 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-QSR507M1-W Mount Bracket



WV-QSR507M-W Mount Bracket



WV-QSR507F1-W Mount Bracket



WV-QSR507F-W Mount Bracket



WV-QSR507-W Mount Bracket



WV-QPL500-W Mount Bracket



WV-QCN500-W Mount Bracket



WV-QCL501-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-QCL100-W Mount Bracket



PWM40AW Wall Mount Bracket



PWM25W Gooseneck Wall Mount



PPRM35AW
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-QDC504C Dome Cover



WV-QDC200C Dome Cover



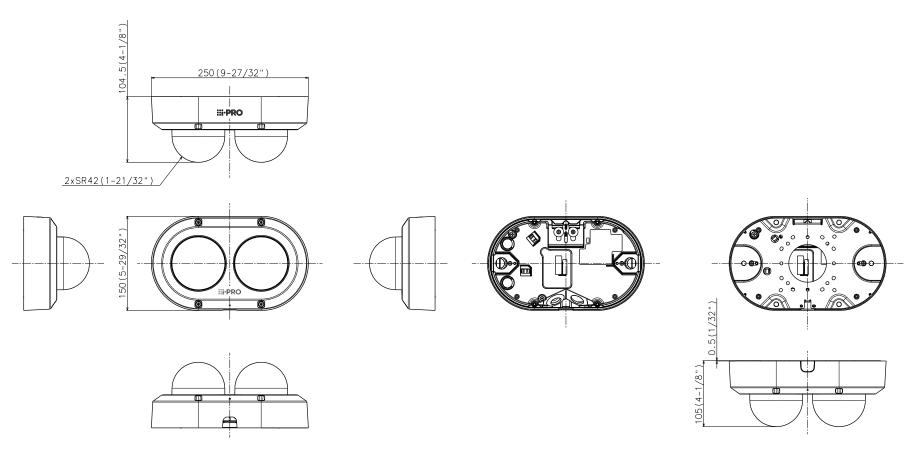
WV-QCA501A I/O Cable



WV-PM500 Compact microphone unit for surveillance cameras



WV-CW7CN Dome cover



With attachment plate



	投影面積/Projected	area
平面図/Top-view	0. 020 (m ²)	
側面図/Side-view	0. 011 (m ²)	

Mass : Approx. 1.6 kg {3.53 lbs} (When using the attachment plate)