

WV-X67710A-Z3-3

4K AI Rugged PTZ Camera (30x zoom)

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- 4K 30x Aero PTZ camera
 - Built-in wiper and Auto defroster
 - Up to 3 Edge AI analytic apps
 - AI Auto tracking
 - AC24V/DC24V Power supply
 - Wind resistance (Up to 270km/h, 167mph)
 - Wide range of ambient temperatures supported (-50 °C to +65 °C {-58 °F to +149 °F})
 - IP66, IP68, IK10 Compliant
 - Built-in FIPS 140-3 Level 3, CC EAL6+ Compliant Secure Element (NXP® EdgeLock® SE052F)
 - NDAA Compliant
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SPECIFICATIONS

Camera	
Max. Number of Applications	3
Network	
No. of Stream	4
SDXC/SDHC/SD Memory Card (Option)	-
JPEG (MJPEG) Image Quality	10 steps: 0(SUPER FINE) - 9(LOW)
Network IF	10BASE-T/100BASE-TX, RJ45 connector
Resolution	[16:9 mode(30 fps mode)][16:9 mode(25 fps mode)] 3840×2160/ 2560×1440/ 1920×1080/ 1280×720/ 640×360/ 320×180 [4:3 mode] -
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
H.265/H.264 Transmission Mode/Type	[Transmission Mode] Constant bit rate/ VBR/ Frame rate/ Best effort [Transmission Type] Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast
Secure	FIPS 140-3 level 3, CC EAL6+ (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
Audio Compression Method	G.726 (ADPCM): 16 kbps/ 32 kbps G.711: 64 kbps AAC-LC: 64 kbps/ 96 kbps/ 128 kbps
Mobile Terminal Compatibility	iPad / iPhone (iOS 8.0 or later), Android™ terminals
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, NTCIP
ONVIF®Profile	M / S / T
Audio Transmission Mode	Off / Line input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
Pan/Tilt	
Preset Positions	256
Self Return	10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 5 min, 10 min, 20 min, 30 min, 60 min
Panning Range	360° Endless panning
Auto Mode	Auto track, Auto pan, Preset sequence, Patrol

Panning Speed	Manual : Approx. 0.065 °/s – 150 °/s * *Except when frozen Preset : Up to approx. 200 °/s * *Except when leaning forward, frozen, or in strong winds
Tilting Speed	Manual: Approx. 0.065 °/s – 150 °/s * *Except when frozen Preset: Up to approx. 200°/s *Except when leaning forward, frozen, or in strong winds
Tilting Range	Operating range: - Upright: -45° to +90° (level - upward) - Leaning forward: -90° to +90° (downward - level - upward) - Hanging: -30° to +90° (level - downward)

Lens	
Adjusting Angle	(PAN) angle : 360° turning (TILT) angle : -90° - +90° (YAW) angle : ±0°
Maximum Aperture Ratio	1:1.8 (WIDE) – 1:4.7 (TELE)
Focus Range	3.0 m {118-1/8 inches} – ∞
Optical Zoom	30x
Digital (electronic) Zoom	30x - 480x
Focal Length	4.5 mm – 135 mm {3/16 inches – 5-5/16 inches}
Angular Field of View	[16:9 mode] Horizontal: 2.5° (TELE) – 62° (WIDE) Vertical: 1.4° (TELE) – 37° (WIDE)
Aperture Range	F1.8 – Close

Camera	
IR LED Light	-
Scanning Area	5.57 mm (H) × 3.13 mm (V) {7/32 inches (H) × 1/8 inches (V)}
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
Analytics	AI Video Motion Detection, AI Face Detection, AI Privacy Guard, AI People Detection, AI Vehicle Detection, AI Occupancy Detection 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
Image Sensor	Approx. 1/2.8 type CMOS image sensor
White Balance	ATW1/ ATW2/ AWC
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
Minimum Illumination	Color : 0.13 lx (30IRE, F1.8, 1/30s, AGC:11)* 0.19 lx (50IRE, F1.8, 1/30s, AGC:11) 0.012 lx (50IRE, F1.8, 16/30s, AGC:11)* BW : 0.10 lx (50IRE, F1.8, 1/30s, AGC:11) 0.006 lx (50IRE, F1.8, 16/30s, AGC:11)* *Converted value
Dynamic Range	Max. 132 dB (Super Dynamic: On, Level: 31, 15 fps*) * The frame rate is limited to 15 fps for level 30 or higher.
Color/BW (ICR)	Off/ On/ Auto1/ Auto2/ Auto3(SCC)

Audio Detection	On/ Off
Scene Change Detection (SCD)	On/ Off 1 area available
Video Motion Detection (VMD)	On/ Off 4 areas available
Intelligent Auto	On/Off
Privacy Zone	On/Off Up to 32 zones available
Camera Title (OSD)	On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)
VIQS	On/Off Up to 8 zones available
Image Stabilizer	On/Off (Built-in gyro sensor) Available only in the 30/25 fps mode
Super Dynamic	On/Off (Range : 0 to 31)
Fog Compensation	On/Off (Range : 0 to 8) *only when Intelligent Auto / Auto contrast adjust: Off
AI Sound Classification	Selectable from Gunshot, Yell, Vehicle horn, Glass break
Maximum Gain (AGC)	The level can be set in the range of 0 to 11.
Adaptive Black Stretch	The level can be set in the range of 0 to 255.
Digital Noise Reduction	The level can be set in the range of 0 to 255.

Input/Output	
Monitor Output	-
External I/O Terminals *2	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) Relay (x1)
Audio Output *2	Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV
Audio Input *2	Without connector (Pre-stripped wires)

General	
Ambient Operating Temperature	-50 °C to +65 °C {-58 °F to +149 °F} * (Power On range: -30 °C to +65 °C {-22°F to +149°F}) (24V AC/DC, PoE++ Class 8) -30 °C to +65 °C {-22 °F to +149°F} * (Power On range: -20 °C to +65 °C {-4 °F to +149°F}) (PoE++ Class 6)
Ambient Operating Humidity	10 % to 100 % (no condensation)
Dimensions	226 mm (W) x 450 mm (H) x 266 mm (D) {8-29/32 inches (W) x 17-23/32 inches (H) x 10-15/32 inches (D)} (excluding the mounting and bump parts)
Power Source/Power Consumption	[Power Source] 24V AC 50Hz/60Hz 24V DC 90W PoE++ (IEEE802.3bt Type4 Class 8 compliant) 60W PoE++ (IEEE802.3bt Type3 Class 6 compliant) [Power Consumption] Ambient operating temperature -50 to 65°C: 24 V AC 50Hz/60Hz : 3.8 A / Approx. 61 W 24 V DC : 2.5 A / Approx. 60 W 90W PoE++ DC 54 V : 1.0 A / Approx. 54 W (Class 8 device) Ambient operating temperature -30 to 65°C: 60W PoE++ DC 54 V : 930 mA / Approx. 50.2 W (Class 6 device)

Environmental Resistance	[Temperature / Humidity] IEC60068-2-1 compliant, IEC60068-2-2 compliant, IEC60068-2-14 compliant, IEC60068-2-30 compliant, IEC60068-2-78 compliant, MIL-STD-810-H, 501.7 High Temperature compliant, MIL-STD-810-H, 502.7 Low Temperature compliant, MIL-STD-810-H, 503.7 Temperature Shock compliant, MIL-STD-810-H, 507.6 Humidity compliant, NEMA TS2 2.2.7 compliant [Solar Radiation] MIL-STD-810-H, 505.7 Solar Radiation compliant [Low Pressure Altitude] MIL-STD-810-H, 500.6 Low Pressure Altitude compliant
Mass (approx.)	Approx. 8.1 kg {17.9 lbs} (excluding attachments)
Finish	Body: High-strength salt-resistant resin, die-cast, Gray (Munsell N7 semi-gloss) Clear front cover: Clear glass
Wiper	Continuous (High) / Continuous (Low) / 1 shot / Washer *1 shot will automatically stop after 5 reciprocating movements.
EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035, EN61000-6-2, EN50121-4, IEC62236-4
Defroster	Glass Heater (Transparent heater type) Auto: ON (Approx. 5°C) / OFF (Approx. 10°C) Manual: ON (manual) / OFF (5 – 180 min. timer) *Outside temperature is a converted value from the internal thermal sensor and may fluctuate due to rain, wind, and snow
Vibration Resistance	IEC60068-2-6 compliant, NEMA TS2 2.2.8 compliant
Shock Resistance	IK10(IEC62262)*, IEC60068-2-75(20J) compliant, IEC60068-2-27 compliant, NEMA TS2 2.2.9 compliant *Excluding front glass and LED cover
Water and Dust Resistance	IP68/IP66 (IEC 60529), Type 4X (UL50E), Type 6P (UL50E), NEMA 4X compliant, NEMA 6P compliant
Corrosion Resistance	ISO14993 compliant, ISO12944-6 C5-M compliant, MIL-STD-810-H, 509.7 Salt Fog compliant
Storage Temperature & Humidity	Storage temperature: -30 °C to +65 °C (-22 °F to +149 °F) Storage humidity: 10 % to 95 % (no condensation)
Other	Tamper-resistant enclosure*3 NEMA TS2 Compliant Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Heavy salt damage resistance specifications (ISO 14993 compliant) Vibration Resistance specifications (IEC60068-2-6 compliant)
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
Wind Resistance	Upright, Hanging: Operable Up to 75 m/s {approx. 167 mph} Non-destructive Up to 90 m/s {approx. 201 mph} Leaning forward: Operable Up to 60 m/s {approx. 134 mph} Non-destructive Up to 90 m/s {approx. 201 mph}
Easy Kitting	Yes

DORI

Observe (62.5ppm / 19ppf)	1407.9 m {4619.0 ft} (TELE) 51.1 m {167.7 ft} (WIDE)
Detect (25ppm / 8ppf)	3519.7 m {11547.6 ft} (TELE) 127.8 m {419.3 ft} (WIDE)
Identify (250ppm / 76ppf)	352.0 m {1154.8 ft} (TELE) 12.8 m {41.9 ft} (WIDE)
Recognize (125ppm / 38ppf)	703.9 m {2309.5 ft} (TELE) 25.6 m {83.9 ft} (WIDE)

Alarm

Alarm Source	3 terminals input, VMD alarm, SCD alarm, Command alarm, Audio detection alarm, Auto track alarm
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Alarm Actions	E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output
System on Chip	
System on Chip (SoC)	Ambarella CV22
Browser GUI	
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Browser *1	Microsoft Edge Firefox Google Chrome

NOTES

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

*2 When using with them, WV-QCA502 cable is required.

*3 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

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.
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OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\)](http://i-pro.com)



WV-QWL503S-G
Mount Bracket



WV-QWL503-G
Mount Bracket



WV-QCN500S-G
Mount Bracket



WV-QCA502
I/O Cable for Aero
PTZ camera

APPEARANCE

LEDユニット無しモデル
No LED unit model

