

WV-S66700-Z3L

4K Outdoor 30x PTZ Network Camera with AI engine

Rapid PTZ camera with AI engine and IR-LED



- 4K 30x PTZ camera
- Innovative New Form Factor PTZ
- Up to 3 Edge Al analytic apps
- Al auto tracking
- Built-in IR-LED (200m/656ft)
- High speed Pan/Tilt drive (Pan: 700deg./s, Tilt: 500deg./s)
- IP66, 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	5.57 mm (H) × 3.13 mm (V) {7/32 inches (H) × 1/8 inches (V)}	
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 lx (50IRE, F1.8, 1/30s, AGC:11, IR LED: On) 0.1 lx (50IRE, F1.8, 1/30s, AGC:11) 0.006 lx (50IRE, F1.8, 16/30s, 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.1/4000s to Max.16/30s [25 fps Mode] Max.1/4000s 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	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 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: 280 m {Approx. 920 ft} (30IRE)* 200 m {Approx. 660 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	Gunshot, Yell, Vehicle horn, Glass break	
Al Analytics	Al Video Motion Detection, Al Privacy Guard, Al Face Detection, Al People Detection, Al Vehicle Detection, Al Non mask Detection (prior to V2.70), Al Occupancy Detection, Al Scene Change 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	
Privacy Zone	On / Off, Up to 32 zones available	
VIQS	On / Off, Up to 8 zones available	

6.1.	
Image Stabilizer	On / Off (Built-in gyro sensor)
Image Rotation	On / Off
Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
Lens	
Optical zoom	30x (Motorized zoom / Motorized focus)
Extra zoom	Max. 90x (30x - 90x when resolution is 1280x720)
Focal length	4.5mm - 135mm (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)
Maximum Aperture Ratio	1:1.8 (WIDE) -1:4.7 (TELE)
Focus range	3.0 m {118-1/8 inches} -∞
Aperture range	F1.8 – close
DORI	
Detect (25ppm / 8ppf)	Wide: 127.8 m / 419.3 ft, Tele: 3519.7 m / 11547.6 ft
Observe (62.5ppm / 19ppf)	Wide: 51.1 m / 167.7 ft, Tele: 1407.9 m / 4619.0 ft
Recognize (125ppm / 38ppf)	Wide: 25.6 m / 83.9 ft, Tele: 703.9 m / 2309.5 ft
Identify (250ppm / 76ppf)	Wide: 12.8 m / 41.9 ft, Tele: 352.0 m / 1154.8 ft
Sustain on Chin (CoC)	
System on Chip (SoC) System on Chip (SoC)	Ambarella CV22
system on emp (see)	AMBUREIG EYEL
Adjusting Angle	
Adjusting Angle	Horizontal : 360° Endless Panning, TILT : -20° to +90°, Yaw : 0°
Pan /tilt	
Panning Range	360° Endless panning
Panning Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 700°/s
Tilting Range	
	Operational range -20° – +90°
Tilting Speed	Operational range -20° - +90° Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s
Tilting Speed Preset Positions	
	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s
Preset Positions	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions
Preset Positions Auto Mode	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol
Preset Positions Auto Mode Self Return	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min
Preset Positions Auto Mode Self Return Active ClearSight	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min
Preset Positions Auto Mode Self Return Active ClearSight Browser GUI	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Yes
Preset Positions Auto Mode Self Return Active ClearSight Browser GUI GUI / Setup Menu Language Browser *1	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Yes English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Preset Positions Auto Mode Self Return Active ClearSight Browser GUI GUI / Setup Menu Language	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Yes English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome
Preset Positions Auto Mode Self Return Active ClearSight Browser GUI GUI / Setup Menu Language Browser *1 Network	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Yes English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Preset Positions Auto Mode Self Return Active ClearSight Browser GUI GUI / Setup Menu Language Browser *1 Network Network IF	Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s 256 positions Auto track/ Auto pan/ Preset sequence/ Patrol 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min Yes English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector [16:9 mode (30 fps mode)] [16:9 mode (25 fps mode)] 3840x2160/ 2560x1440/ 1920x1080/

Smart Coding	GOP (Group of pictures) control: Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced(Fixed GOP 60s w/1s 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 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, MQTT, NTCIP
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, Signed Firmware
SDXC/SDHC/SD Memory Card (Option)	H.265 / H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible 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/M/S/T
Alarm	
Alarm Source	3 terminals input, VMD 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 Recommended applicable microphone: Plug-in power type (Sensitivity of microphone:-51dB to -38dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 k Ω (unbalanced) Supply voltage: 4.0V±0.5V For line input : Input level : Approx10 dBV
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 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/ AUX OUT) (x1)
Monitor Output	-
General	
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035
Other Standard	NEMA-TS2
Power Source and Power Consumption	PoE++ (IEEE802.3bt compliant) DC 54 V : 850 mA/Approx. 45.9 W (Class 6 device)
Ambient Operating Temperature	-50 °C to 60 °C * {-58 °F to 140 °F} (Power On range: -30 °C to +60 °C {-22 °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 Numidity	10 to 100 % (so condensation)

10 to 100 % (no condensation)

Ambient Operating Humidity

Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Wind Resistance	Up to 40 m/s {approx. 89 mph}
Dimensions	Maximum diameter: ϕ 167mm × 205 mm (H) { ϕ 6-9/16 inches × 8-1/16 inches (H)} Dome radius SR 77.5 mm {SR 3-1/16 inches} (excluding an attachment for the conduit portion and protruding parts)
Mass (approx.)	Approx. 3 kg (without attachment)
Finish	Main body : Aluminum die cast, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover: Polycarbonate resin, Clear
Other	Tamper-resistant enclosure *5

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) .
- *4 When using with them, WV-QCA501A cable is required.
- *5 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.
- 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-QWL502-W Mount Bracket



WV-QWL501-W Mount Bracket



WV-QSR506M1-W Mount Bracket



WV-QSR506M-W Mount Bracket



WV-QSR506F1-W Mount Bracket



WV-QSR506F-W Mount Bracket



WV-QSR506-W Mount Bracket



WV-QPL500-W Mount Bracket



WV-QJB505-W Base Bracket



WV-QEM505-W Ceiling Mount Bracket



WV-QCN500-W Mount Bracket



WV-QCL501-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-QCL100-W Mount Bracket



WV-Q105A Mount 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-QCA501A I/O Cable



WV-PM500 Compact microphone unit for surveillance cameras

APPEARANCE

