WV-S61702A-Z3

4K AI Indoor PTZ Camera (30x zoom)

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- 4K 30x PTZ camera
- Up to 3 Edge AI analytic apps
- AI auto tracking
- Durable Pan/Tilt gear mechanism
- Built-in FIPS 140-3 Level 3, CC EAL6+ Compliant Secure Element (NXP® EdgeLock® SE052F)
- 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 : 0.10 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. 1/4000 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. 132 dB (Super Dynamic: On, Level: 31, 15 fps*) * The frame rate is limited to 15 fps for level 30 or higher.
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 (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/ Auto1/ Auto2/ Auto3(SCC)
IR LED Light	-
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	Selectable from Gunshot, Yell, Vehicle horn, Glass break
Analytics	AI Video Motion Detection, AI Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Occupancy Detection, AI 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
Max. Number of Applications	3

Privacy Zone	On/Off Up to 32 zones available If privacy zone is enabled, frame rate will be limited to 15fps/12.5fps.
VIQS	On/Off Up to 8 zones available
Image Stabilizer	On/Off When image stabilization is set to On, the frame rate will be limited to 15fps/12.5fps.
Camera Title (OSD)	On/Off Up to 40 characters, Up to 2 lines (alphanumeric characters, marks)

Lens	
Optical Zoom	30x (Motorized zoom / Motorized focus)
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)
Adjusting Angle	(PAN) angle : 0° ~ +350° (TILT) angle : -25° ~ +90° (YAW) angle : ±0°
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)	3519.7 m {11547.6 ft} (TELE) 127.8 m {419.3 ft} (WIDE)
Observe (62.5ppm / 19ppf)	1407.9 m {4619.0 ft} (TELE) 51.1 m {167.7 ft} (WIDE)
Recognize (125ppm / 38ppf)	703.9 m {2309.5 ft} (TELE) 25.6 m {83.9 ft} (WIDE)
Identify (250ppm / 76ppf)	352.0 m {1154.8 ft} (TELE) 12.8 m {41.9 ft} (WIDE)

System on Chip	
System on Chip (SoC)	Ambarella CV22

Pan/Tilt	
Panning Range	0° to +350°
Panning Speed	Manual: Approx.0.065 °/s – 150 °/s Preset: Up to approx. 500 °/s
Tilting Range	Operational range: -25°– +90° (level – downward)
Tilting Speed	Manual: Approx. .0.065 °/s – 150°/s Preset: Up to approx. 350 °/s
Preset Positions	256
Auto Mode	Auto track, Auto pan, Preset sequence, Patrol
Self Return	10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 5 min, 10 min, 20 min, 30 min, 60 min

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	[16:9 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] -
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
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. [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
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
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
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 / M

Input/Output	
Audio Input	ø3.5 mm stereo mini jack
Audio Output	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV
External I/O Terminals	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)
Monitor Output	-

General	
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035
Power Source/Power Consumption	[Power Source] DC12V *3 , PoE+ (IEEE802.3at compliant) [Power Consumption] DC12 V : 1.25 A / Approx. 15.0 W PoE+ DC 54 V : 310 mA / Approx. 16.7 W (Class 4 device)
Ambient Operating Temperature	-10 °C to +50 °C {14 °F to 122 °F} (Power On range: 0 °C to 50 °C {32 °F to 122 °F})
Ambient Operating Humidity	10 % to 90 % (no condensation)

Storage Temperature & Humidity	Storage temperature: -30 °C to +60 °C {-22 °F to +140 °F} Storage humidity: 10 % to 95 % (no condensation)
Dimensions	ø185 mm × 214 mm (H) {ø7-9/32 inches × 8-7/16 inches (H)}
Mass (approx.)	Approx. 1.8 kg {3.97 lbs} (Including camera mount bracket: approx.100 g {0.22 lbs}, decorative cover: approx. 150 g {0.33 lbs})
Finish	Main body: Aluminium die cast /ABS resin, i-PRO white Lens cover: ABS resin, Black
Easy Kitting	Yes

NOTES

*1 For information on the operation verification of the web browsers, refer to our support website .
*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-QWL500-W
Mount Bracket

WV-QWL100-W
Wall Mount Bracket

WV-QPL500-W
Mount Bracket

WV-QJB500-W
Mount Bracket

WV-QEM101-W
Ceiling Mount Bracket

WV-QDC100G-W
Dome Cover

WV-QDC100C-W
Dome Cover

WV-QCN500-W
Mount Bracket

WV-QCL101-W
Mount Bracket

WV-QCL100-W
Mount Bracket

WV-Q105A
Mount Bracket

WV-PM500
Compact microphone unit

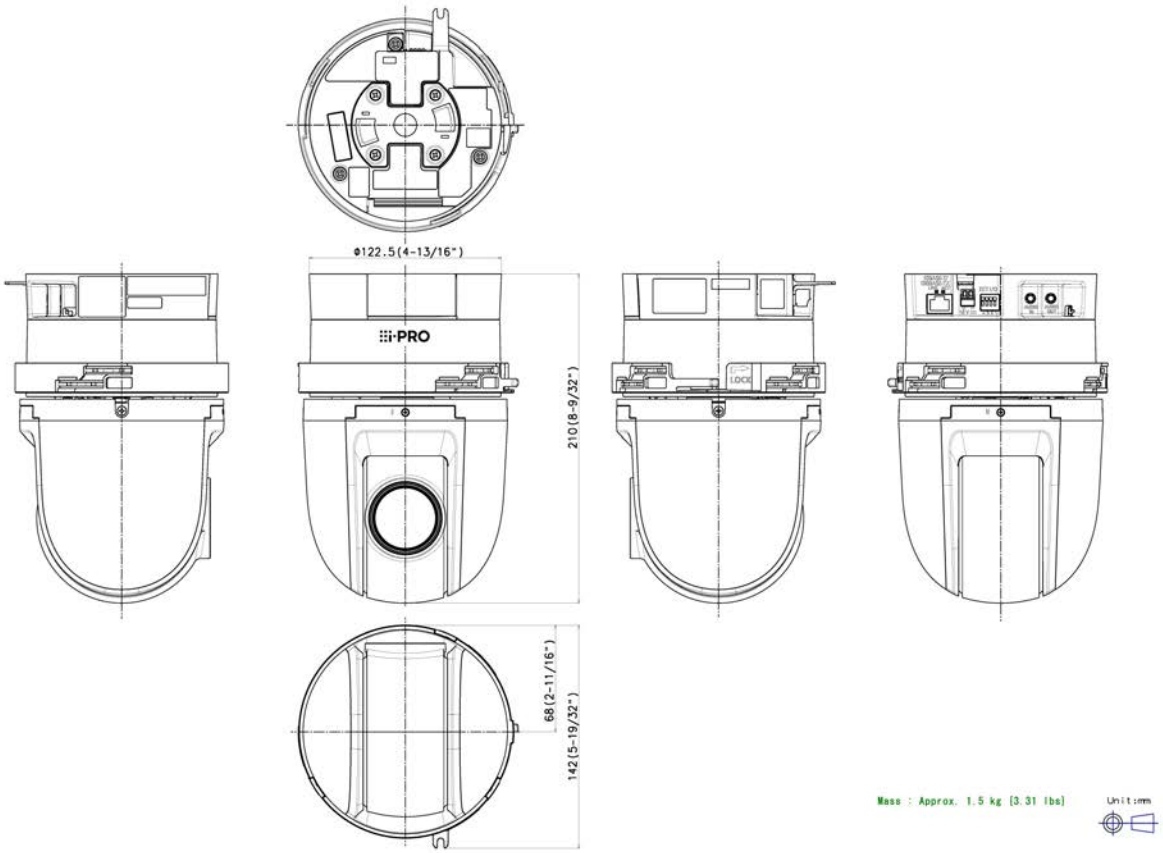
WV-SDB256G
i-PRO SD Memory Card

WV-SDB128G
i-PRO SD Memory Card

WV-SDB064G
i-PRO SD Memory Card

WV-SDB032G
i-PRO SD Memory Card

APPEARANCE


ø122.5(4-13/16")
210(8-9/32")
68(2-11/16")
142(5-19/32")
Mass : Approx. 1.5 kg (3.31 lbs)
Unit:mm