

## WV-S61301-Z1

2MP (1080p) 10x Indoor PTZ Network Camera

# S-series PTZ camera with AI Engine



- 2MP (1080p) 1920x1080
- 10x optical zoom
- Intelligent Auto (with Al Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- Built-in FIPS 140-2 Level 3 Certified Secure Element (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: 0.011 lx (30IRE, F1.6, 1/30s, AGC:11)* 0.015 lx (50IRE, F1.6, 1/30s, AGC:11) 0.001 lx (50IRE, F1.6, 16/30s, AGC:11)*  BW: 0.006 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0004 lx (50IRE, F1.6, 16/30s, AGC:11)*	
	*Converted value	
White Balance	ATW1 / ATW2 / AWC	
Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix [50 fps Mode] 1/50 Fix to 1/10000 Fix, [25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix	
Intelligent Auto	On / Off	
Super Dynamic	On / Off, the level can be set in the range of 0 to 31.	
Dynamic Range	Max.144 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   Auto1   Auto2   Auto3 (SCC)	
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	
Image Stabilizer	On / Off (Built-in gyro sensor)	

Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
Focus Adjustment	Auto focus
Lens	
Optical zoom	10x (Motorized zoom / Motorized Focus)
Extra zoom	Max. 15x (10 to 15x : When resolution is 1280 x 720)
Focal Length	4.7 – 47 mm {3/16 inches - 1-27/32 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 6.7° (TELE) – 62° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE) [ 4 : 3 mode] Horizontal : 5.1° (TELE) – 48° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE)
Maximum Aperture Ratio	1:1.6 (WIDE) -1:3.0 (TELE)
Focus Range	1.5 m {59-1/16 inches} – ∞
DORI	
Detect (25ppm / 8ppf)	Wide: 64.2m / 210.5 ft, Tele: 656.0 m / 2152.3 ft
Observe (62.5ppm / 19ppf)	Wide: 25.7 m / 84.2 ft, Tele: 262.4 m / 860.9 ft
Recognize (125ppm / 38ppf)	Wide: 12.8 m / 42.1 ft, Tele: 131.2 m / 430.5 ft
Identify (250ppm / 76ppf)	Wide: 6.4m / 21.1 ft, Tele: 65.6 m / 215.2 ft
System on Chip (SoC)	
System on Chip (SoC)	Ambarella CV25M
Adjusting Angle	
Adjusting Angle	Horizontal : 0 to +350° Vertical : -15° to +90°, Yaw : 0°
Pan/tilt	
Panning Range	0 - +350°
Panning Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 500°/s
Tilting Range	Operational -30° – +90°
Tilting Speed	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 350°/s
Preset Positions	256 positions
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	
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
Network	
Network IF	10 Base-T / 100 Base-TX, RJ45 connector

Resolution H.265/ H.264 JPEG (MJPEG)	[16:9 mode (60 fps mode)]*2, [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)]*2, [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536*4, 1280x960, VGA, QVGA
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 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 Coding: Auto VIQS: On/Off
Audio Compression	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, SFTP, MQTT, LLDP 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, SFTP, 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  microSDHC memory card: 2 GB
Mobile Terminal Compatibility	iPad, iPhone (iOS 8.0 or later), Android™ 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	ø3.5 mm stereo mini jack For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : –51 dB to –38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 k $\Omega$ (unbalanced) Supply voltage : 2.5 V $\pm$ 0.5 V For line input : Input level : Approx. –10 dBV
Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 $\Omega$ (unbalanced) Output level : –20 dBV
External I/O Terminals	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	Yes (for adjustment) Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera

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  Power Source and Power Consumption  DC12 V, PoE (IEEE802.3af) DC12 V: 970 mA / Approx. 11.6 W PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0 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)  Anti-Condensation System  -  Dimensions  ø117 mm x 155 mm (H) {ø4-19/32 inches x 6-3/32 inches (H)}  Mass (Approx.)  Approx. 1.2 kg {2.65 lbs.}  Finish  Main body: Aluminium die cast /PC resin + ABS resin, i-PRO white Lens cover: ABS resin, Black		
Power Source and Power Consumption  DC12 V, PoE (IEEE802.3af) DC12 V: 970 mA / Approx. 11.6 W PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0 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)  Anti-Condensation System  Dimensions  ø117 mm x 155 mm (H) {ø4-19/32 inches x 6-3/32 inches (H)}  Mass (Approx.)  Approx. 1.2 kg {2.65 lbs.}  Finish  Main body: Aluminium die cast /PC resin + ABS resin, i-PRO white	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
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(Power On range : 0 °C to +50 °C {+32 °F to +122 °F})  Ambient Operating Humidity 10 to 90 % (no condensation)  Anti-Condensation System —  Dimensions Ø117 mm x 155 mm (H) {Ø4-19/32 inches x 6-3/32 inches (H)}  Mass (Approx.) Approx. 1.2 kg {2.65 lbs.}  Finish Main body: Aluminium die cast /PC resin + ABS resin, i-PRO white	Power Source and Power Consumption	DC12 V: 970 mA / Approx. 11.6 W
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Mass (Approx.)  Approx. 1.2 kg {2.65 lbs.}  Finish  Main body: Aluminium die cast /PC resin + ABS resin, i-PRO white	Anti-Condensation System	-
Finish Main body: Aluminium die cast /PC resin + ABS resin, i-PRO white	Dimensions	ø117 mm x 155 mm (H) {ø4-19/32 inches x 6-3/32 inches (H)}
	Mass (Approx.)	Approx. 1.2 kg {2.65 lbs.}
	Finish	

### **NOTES**

#### 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-Q105A Mount Bracket



WV-QCL100-W Mount Bracket



WV-QCL101-W Mount Bracket



WV-QCN500-W Mount Bracket



WV-QED100C-W
Ceiling Mount Bracket



WV-QED100G-W Ceiling Mount Bracket



WV-QJB500-W Mount Bracket



WV-QPL500-W Mount Bracket



WV-QWD100C-W Wall Mount Bracket



WV-QWD100G-W Wall Mount Bracket



WV-QWL500-W Mount Bracket



WV-QAT100 Inner Cover



WV-QCD100C-W Dome Cover



WV-QCD100G-W Dome Cover



WV-PM500 Compact microphone unit for surveillance cameras

# **APPEARANCE**

