### ::i·PRO

# WV-S61301-Z2

2MP (1080p) 21x Indoor PTZ Network Camera

### S series PTZ camera with AI

S series models come standard with AI automatic tracking. It can automatically detect, zoom, and track intruders in a wide area, thereby supporting surveillance operators in many scenes. It also achieves the industry's highest level of drive durability to withstand high-speed and high-frequency camera movement by the automatic monitoring function.



- 2MP (1080p) 1920x1080
- 21x optical zoom
- Intelligent Auto (with AI 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 : 0.015 lx (50IRE, F1.6, 1/30s) Color : 0.001 lx (50IRE, F1.6, 16/30s) BW : 0.006 lx (50IRE, F1.6, 1/30s) BW : 0.0004 lx (50IRE, F1.6, 16/30s)
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)
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
AI 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, 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	21x (Motorized zoom / Motorized Focus)

JPEG	[Image Quality] 10 steps
H.265/H.264	[Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
Resolution H.265/ H.264 JPEG (MJPEG)	<pre>[16 : 9 mode (60 fps mode)], [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)], [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, 1280x960, VGA, QVGA</pre>
Network IF	10 Base-T / 100 Base-TX, RJ45 connector
Network	
Browser	Microsoft Edge, Firefox, Google Chrome
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High
Camera Control	Brightness, AUX On / Off
Browser GUI	
Self Return	10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min
Auto Mode	Auto track/ Auto pan/ Preset sequence/ Patrol
Preset Positions	256 positions
Tilting Speed	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 350°/s
Tilting Range	Operational -30° – +90°
Panning Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 500°/s
Panning Range	0 - +350°
Pan/tilt	
Adjusting Angle	Horizontal : 0 to +350°, Vertical : -30 to +90°, Yaw : 0°
Adjusting Angle	
System on Chip (SoC)	Ambarella CV25M
System on Chip (SoC)	
	wide, 5.2111 / 16.0 ft, fele, 12.5.4 ftf / 424.3 ft
Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft Wide: 5.2m / 17.0 ft, Tele: 129.4 m / 424.5 ft
Observe (62.5ppm / 19ppf)	Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft
Detect (25ppm / 8ppf)	Wide: 51.9m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft
DORI	
Focus Range	1.5 m {59-1/16 inches} – ∞
Maximum Aperture Ratio	1:1.6 (WIDE) - 1:4.5 (TELE)
	Horizontal : 2.8° (TELE) – 58° (WIDE), Vertical : 2.2° (TELE) – 44° (WIDE)
Angular Field of View	[16 : 9 mode] Horizontal : 3.7° (TELE) – 77° (WIDE), Vertical : 2.2° (TELE) – 44° (WIDE) [ 4 : 3 mode]

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	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, LLDP, 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 (V2.50 or later)
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), 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 ±0.5 V
	For line input : Input level : Approx10 dBV
Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (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
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
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 Odevice)
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 : Resin, i-PRO white

#### 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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## *HirPRO*

# **OPTIONAL ACCESSORIES**

Select a compatible accessory Accessory Selector (i-pro.com)





WV-Q105A Mount Bracket



WV-QCL100-W Mount Bracket



WV-QJB500-W Mount Bracket



WV-QCD100C-W Dome Cover



WV-QPL500-W Mount Bracket



WV-QCD100G-W Dome Cover



WV-QCL101-W Mount Bracket



WV-QWD100C-W Wall Mount Bracket



WV-PM500 Compact microphone unit for surveillance cameras



WV-QCN500-W

Mount Bracket



WV-QED100C-W Ceiling Mount Bracket



WV-QED100G-W Ceiling Mount Bracket



WV-QAT100 Inner Cover







WV-QWL500-W Mount Bracket









### APPEARANCE

