

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: 0.015 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)	
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, 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 Chin (Co.C.)		
System on Chip (SoC) System on Chip (SoC)	Ambarella CV25M	
System on Chip (Soc)	Allibatella CV23W	
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		
,, 20	[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 (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	
ONIVIE® Profile		
ONVIF® Profile	G/M/S/T	
ONVIF® Profile Alarm	G/M/S/T	
	3 terminals input, VMD alarm, Command alarm, Audio detection alarm	
Alarm		
Alarm Alarm Source Alarm Actions	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification,	
Alarm Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification,	
Alarm Alarm Source Alarm Actions Input/Output Audio Input	3 terminals input, VMD alarm, Command alarm, Audio detection alarm $SDXC/SDHC/SD \ memory \ recording, \ E-mail \ notification, \\ HTTP \ alarm \ notification \ Indication \ on \ browser, \ TCP \ alarm \ notification \ output $ $ \emptyset 3.5 \ 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$	
Alarm Alarm Source Alarm Actions Input/Output Audio Input Audio Output	3 terminals input, VMD alarm, Command alarm, Audio detection alarm $ SDXC/SDHC/SD \ memory \ recording, \ E-mail \ notification, \\ HTTP \ alarm \ notification \ Indication \ on \ browser, \ TCP \ alarm \ notification \ output $	
Alarm Alarm Source Alarm Actions Input/Output Audio Input Audio Output External I/O Terminals	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output	
Alarm Alarm Source Alarm Actions Input/Output Audio Input Audio Output External I/O Terminals Monitor Output	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output 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 kΩ (unbalanced) Supply voltage: 2.5 V ±0.5 V For line input: Input level: Approx. –10 dBV ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) Output level: –20 dBV 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) Yes (for adjustment)	
Alarm Alarm Source Alarm Actions Input/Output	3 terminals input, VMD alarm, Command alarm, Audio detection alarm $SDXC/SDHC/SD \ memory \ recording, \ E-mail \ notification, \\ HTTP \ alarm \ notification \ Indication \ on \ browser, \ TCP \ alarm \ notification \ output $ $\emptyset 3.5 \ 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 $ $\emptyset 3.5 \ mm \ stereo \ mini \ jack \ (monaural \ output) \\ Output \ impedance: \ Approx. \ 600 \ \Omega \ (unbalanced) \\ Output \ level: \ -20 \ dBV $ $ALARM \ IN 1 \ (Alarm \ input \ 1/ \ Black \ & \ white \ input/ \ Auto \ time \ adjustment \ input) \ (x1) \\ ALARM \ IN 2 \ (Alarm \ input \ 2/ \ ALARM \ OUT) \ (x1), \ ALARM \ IN 3 \ (Alarm \ input \ 3/ \ AUX \ OUT) \ (x1) \\ Yes \ (for \ adjustment) \\ \Psi 3.5 \ mm \ stereo \ mini \ jack, \ NTSC \ or \ PAL \ signal \ can \ be \ output \ from \ camera$	
Alarm Alarm Source Alarm Actions Input/Output Audio Input Audio Output External I/O Terminals Monitor Output Safety	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output 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 kΩ (unbalanced) Supply voltage: 2.5 V ±0.5 V For line input: Input level: Approx10 dBV ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV 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) Yes (for adjustment) Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1	
Alarm Alarm Source Alarm Actions Input/Output Audio Input Audio Output External I/O Terminals Monitor Output Safety EMC	3 terminals input, VMD alarm, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output 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 kΩ (unbalanced) Supply voltage: 2.5 V ±0.5 V For line input: Input level: Approx10 dBV ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) Output level: -20 dBV 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) Yes (for adjustment) Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035 DC12 V, POE (IEEE802.3af) DC12 V: 970 mA / Approx. 11.6 W	

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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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



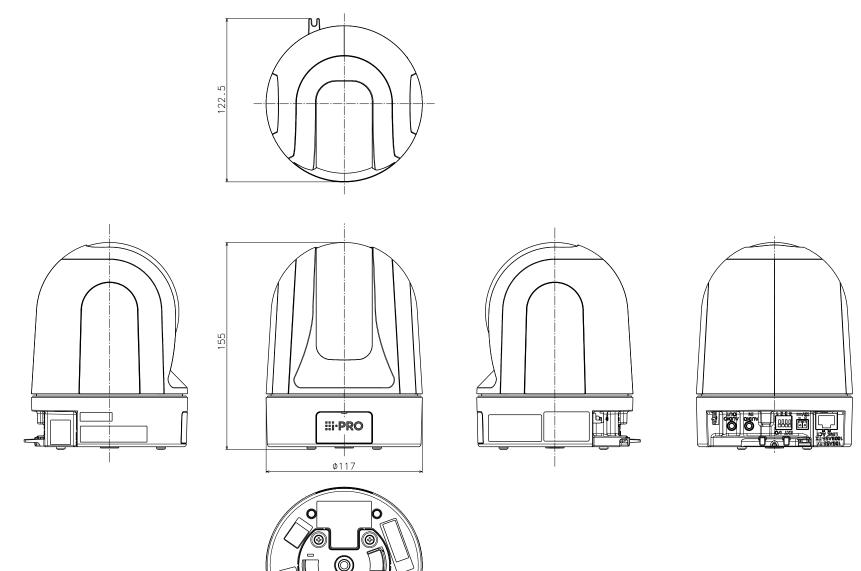
WV-QCD100C-W Dome Cover



WV-QCD100G-W Dome Cover



WV-PM500 Compact microphone unit for surveillance cameras



Model number	Lens type
WV-S61301-Z2	x21
WV-U61301-Z2	, ,,,
WV-U61301-Z1	x10
WV-S61301-Z2V	x21
WV-U61301-Z2V	^
WV-U61301-71V	x10

WV-U61301-Z1V x10

Mass: Approx. 1.0 kg {2.41 lbs}