

WV-U61301-Z2

U series PTZ camera

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

U-Series launch gives customers PTZ's that meet top security certifications (FIPS 140-2 level 3) while also providing a unique blend of imaging performance, reliability and affordability.

Highly durable pan-tilt drive unit Reduced maintenance costs

- High durability gear drive achieves PAN and TILT drive durability (3.7 million movements). Low failure rate even with high frequency drive and reduced maintenance cost by minimizing the maintenance cycle.

Easy installation

- U-series compact PTZ cameras can be installed discreetly and easily on low ceilings.
- Easy kitting packaging allows the camera to be set up without removing it from the box during kitting prior to installation.
- The addition of a diverse lineup of mounting brackets and optional PoE injectors enables flexible installation regardless of the location of new or existing installations.

High security standard

- Highest level of security. In addition to digital certificates issued by a third-party organization (GlobalSign®), FIPS 140-2 level3-certified hardware is installed.

Key i-PRO Spec.

- 2MP (1080p) 1920x1080
- 21x optical zoom
- Intelligent Auto
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- ONVIF® Profile G / S / T
 *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Retail (Shopping mall) / Logistics
- Transportation (Airport / Train, Subway station)
- Bank
- Building



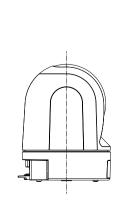


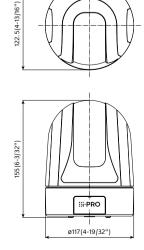
Specifications

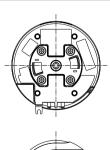
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color: 0.015 lx (50IRE, F1.6, 1/30s)		
		Color: 0.001 lx (50IRE, F1.6, 16/30s)*1		
		BW: 0.006 lx (50IRE, F1.6, 1/30s)		
		BW: 0.0004 lx (50IRE, F1.6, 16/30s)		
	White Balance	ATW1 / ATW2 / AWC		
	Shutter Speed	[60 fps Mode] 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*2	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 /	BLC (Back light compensation) / HLC (High light compensation) / Off		
	High light compensation	The level can be set in the range of 0 to 31 (only when Super dynamic / Intelligent Auto : Of		
	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	-		
	Al Analytics	_		
	Privacy Zone	On / Off, Up to 32 zones available		
	VIQS	On / Off, Up to 8 zones available		
	Image Stabilizer	On / Off		
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)		
	Focus Adjustment	Auto focus		
Lens	Optical zoom	21x (Motorized zoom / Motorized Focus)		
	Extra zoom	Max. 31x (21 to 31x : When resolution is 1280 x 720)		
	Focal length Angular Field of View	4.0 - 84.6 mm {5/32 inches - 3-21/64 inches} [16: 9 mode]		
	Aligular Field of View	Horizontal : 3.7° (TELE) - 77° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE) 4 : 3 mode Horizontal : 2.8° (TELE) - 58° (WIDE), Vertical : 2.2° (TELE) - 44° (WIDE)		
	Maximum Aperture Ratio	1: 1.6 (WIDE) - 1: 4.5 (TELE)		
	Focus range	1.5 m {50-1/16 inches} - ∞		
DORI	Detect (25ppm / 8ppf)	Wide: 51.9 m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft		
	Observe (62.5ppm / 19ppf)	Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft		
	Recognize (125ppm / 38ppf)	Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft		
	Identify (250ppm / 76ppf)	Wide: 5.2 m / 17.0 ft, Tele: 129.4 m / 424.5 ft		
System o	n Chip (SoC)	Ambarella CV25M		
Adjusting	g Angle	Horizontal: 0 to +350°, Vertical: -30 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 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	Camera Control	Brightness, AUX On / Off		
GUI	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, Japanes		
	Browser*3	Microsoft Edge, Firefox, Google Chrome		
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector		
	Resolution H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode (60 fps mode)] ¹² , [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 ¹⁴ , 1280x960, VGA, QVGA		
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort		
	H.264*5 Transmission Type JPEG Image Quality	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast		

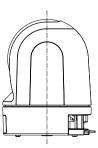
Network	Smart Coding	GOP (Group of pictures) control:		
		Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /		
		Advanced (Fixed GOP 60s w/1s key-frame) /		
		Frame rate control (Variable GOP 4s-16s with frame rate control)		
		*Advanced and Frame rate control are only available with H.265.		
		Smart Coding: Auto VIQS: On/Off		
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps		
		G.711 : 64 kbps		
		AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps		
	Audio transmission mode			
	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, LLDF 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			
	Secure	FIPS 140-2 level3, Device Certificate GlobalSign® pre-installed		
	SDXC/SDHC/SD	H.265 / H.264 recording :		
	Memory Card	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/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/	Audio input	ø3.5 mm stereo mini jack		
Output	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		
	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) (x		
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	DC12 V, PoE (IEEE802.3af)		
	Power Consumption	DC12 V: 970 mA / Approx. 11.6 W		
		PoE DC 48 V: 270 mA / Approx.12.95 W (Class Odevice)		
	Ambient Operating	-10 °C to +50 °C (+14 °F to +122 °F)		
	Temperature	(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.) Finish	Approx. 1.2 kg {2.65 lbs} Main body: Resin, i-PRO white		

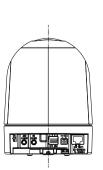
Appearance











Unit: mm (inches)

¹ Converted value

1 Converted value

2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

3 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.

4 Used by super resolution techniques

5 Transmission for 4 streams can be individually set.

6 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

Optional Accessories

■ Mount Bracket / Other

	WALL		POLE	CORNER	HANGING
	1	2	1	1	1
combination	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear) (White) (Smoke) (Clear)	Wall Mount Bracket WV-QWL500-W (White)	Pole Mount Bracket PAPM4W (White)	Corner Mount Bracket PACA4W (White)	Ceiling Mount Bracket WV-QCL101-W '1 (White)
comb		Adapter Box WV-QJB500-W (White)	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear) (White) (Smoke) (Clear)	Wall Mount Brackets WV-QWD100G-W(Smoke) WV-QWD100C-W(Clear) (White) (Smoke) (Clear)	

^{*1:} It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

		CEILING						
combination		1	2	3				
	bination	Ceiling Mount Brackets WV-QED100G-W(Smoke) WV-QED100C-W(Clear) (White)	Ceiling Mount Brackets WV-QCD100G-W(Smoke) WV-QCD100C-W(Clear) (White)	Ceiling Mount Bracket WV-Q105A (Silver)				
	СОП	(Clear)	(Clear)	200 D				

Inner Cover



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- 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.
- $\bullet \ \text{Masses and dimensions are approximate.} \quad \bullet \ \text{Specifications are subject to change without notice.}$

