i-PRO

WV-U2142LA

New U-series compact network camera with enhanced functions and affordability

4MP Varifocal Lens Indoor Dome Network Camera

The new U series is an entry model that achieves high quality and reliability at an affordable price to meet the needs of a wide range of customers. The compact and slim design allows it to be installed in a various locations.

It newly supports ONVIF G / S / T profile and H.265 / H.264, and can be widely used for connecting various VMS and recorders. It also comes pre-installed with secure certificates, enabling device authentication and end-to-end communication encryption to counter the threat of advanced cyberattacks.

Key features

- Compact and slim design allows installation in various locations
- Compliant with ONVIF G / S / T profile and H.265 / H.264, and can support a wide range of connections to VMS and recorders
- Uses "Easy Kitting Packing" that allows you to set the camera without removing it from the box
- Strengthen cyber security by pre-installing digital certificates issued by a third party organization (GlobalSign)

Key i-PRO Spec.

- 5MP Sensor
- 2688×1520 pixel image up to 30fps
- 2.5x built-in motorized zoom and motorized focus lens
- iA (intelligent Auto)
- Super Dynamic 102dB
- Color night vision (0.019 to 0.3 lx)
- H.265 Smart Coding
- Corridor mode
  (90 degrees or 270 degrees in image rotation)
- Built-in IR LED
- ONVIF® Profile G / S / T
  *ONVIF is a trademark of ONVIF, Inc.
- Genetec Stratocast compatible

Industry examples

- Retail
- Education
- Public safety
- Bank / Hospital / Building

U series

Specifications

Camera	Image Sensor	Approx. 1/2.7 type CMOS image sensor
	Minimum Illumination	Color : 0.3 lx, BW : 0.12 lx
		(50IRE, F2.0, Maximum shutter : Off (1/30s), AGC : 11)
		BW : 0 lx
		(50IRE, F2.0, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)
		Color : 0.019 lx, BW : 0.0075 lx
		(50IRE, F2.0, Maximum shutter : max. 16/30s, AGC : 11) *1
	White Balance	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Maximum shutter	Max. 1/10000 s to Max. 16/30 s
	Intelligent Auto	On / Off
	Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
	Dynamic Range	Max. 102 dB (Super Dynamic : On, Level: 31)
	Adaptive Black Stretch	—
	Back light compensation / High light compensation	BLC (Back light compensation) / HLC (High light compensation) / Off (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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light	High / Middle / Low / Off, Maximum irradiation distance : 20 m {Approx. 65 ft}
	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
	Privacy Zone	On / Off, Up to 8 zones available
	Image rotation*2	0° (Off) / 90° / 180° (Upside-down) / 270°
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)
Lens	Focal length	2.9 mm – 7.3 mm{1/8inches-9/32inches}
	Zoom ratio	2.5x Optical zoom (Motorized zoom / Motorized focus)
		3.3x FHD Extra Optical Zoom (when resolution is 1920x1080)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Angular Field of View	[16 : 9 mode] *[4:3 mode] is not supported.
		Horizontal : 44° (TELE) – 102° (WIDE)
		Vertical : 25° (TELE) – 57° (WIDE)
	Maximum Aperture Ratio	1 : 2.0 (WIDE) – 1 : 3.0 (TELE)
	Focus range	1 m {39-3/8 inches} – ∞
DORI	Detect (25ppm / 8ppf)	Wide: 41.5 m /136.0 ft, Tele: 126.7 m / 415.8 ft
	Observe (62.5ppm / 19ppf)	Wide: 16.6 m / 54.4 ft, Tele: 50.7 m / 166.3 ft
	Recognize (125ppm / 38ppf)	Wide: 8.3 m / 27.2 ft, Tele: 25.3 m / 83.2 ft
	Identify (250ppm / 76ppf)	Wide: 4.1 m / 13.6 ft, Tele: 12.7 m / 41.6 ft
Adjusting Angle		Horizontal (PAN) angle: ±180°, Vertical (TILT) angle: -30 °– +85 °
		Azimuth (YAW) angle: ±100°
Browser GUI	Camera Control	Brightness
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution H.265/H.264	[16:9 mode(2688x1520 30fps mode)], [16:9 mode(2688x1520 25fps mode)]
		2688×1520, 1920×1080, 640×360, 320×180
		[16:9 mode(30fps mode)], [16:9 mode(25fps mode)]
		2560×1440, 1920×1080, 640×360, 320×180
		*[4:3 mode] is not supported.
	H.265/ H.264 Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	Transmission Type	Unicast / Multicast

		Stream(1)	Stream(2)	Stream(3)	JPEG(1)	JPEG(2)
	Max. frame rate for each stream*3	2688x1520(30fps)	Off	Off	2560x1440(1fps)	1920x1080(1fps)
		2560x1440(30fps)	640x360(30fps)	Off	2560x1440(1fps)	1920x1080(1fps)
		1920x1080(30fps)	1920x1080(30fps)	640x360(10fps)	2560x1440(1fps)	1920x1080(1fps)

JPEG	Image Quality	10 steps

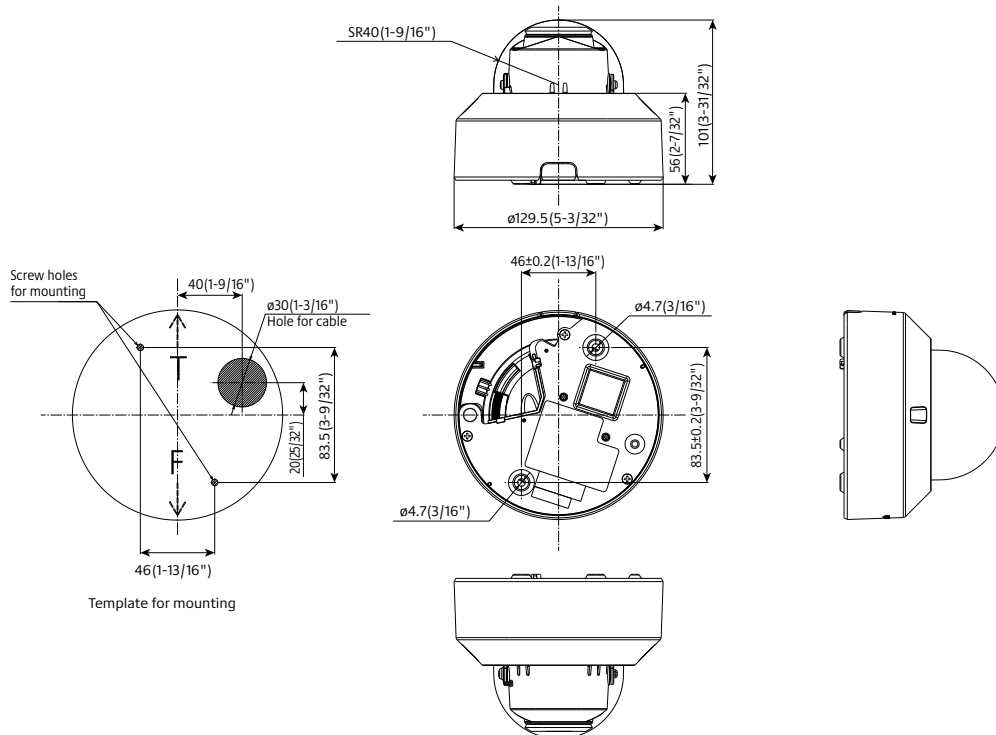| Network	Smart Coding	**GOP(Group of pictures) control**:
		On(Frame rate control) / On(Advanced) / On(Mid.) / On(Low) / Off
		*Frame rate control and Advanced are only available with H.265.
		AUTO VIQS: On/ Off
	Audio Compression	—
	Audio transmission mode	—
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, MQTT*4, LLDP*4
		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, MQTT*4, LLDP*4
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card	H.265/H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC
		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, Android™ terminals
	ONVIF® Profile	G / S / T
Alarm	Alarm Source	VMD alarm, SCD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output
Input/ Output	Monitor Output (for adjustment)	—
	Audio input	—
	Audio Output	—
	External I/O Terminals	—
General	Safety	UL (UL60950-1) , c-UL (CSA C22.2 No.60950-1) , CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 135 mA, Approx. 6.5 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)
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)} Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	Approx. 350 g {0.77 lbs}
	Finish	Main body : ABS resin, i-PRO white Dome section : Acrylic resin, Clear

*1 Converted value
*2 When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode", "90 °" and "270 °" cannot be selected.
*3 Smart Coding(GOP and AUTO VIQS) is not available when setting 30fps.
*4 It may be necessary to upgrade the firmware to use these protocols.

Appearance

Unit : mm (inches)

SR40(1-9/16")
101(3-31/32")
56(2-7/32")
ø129.5(5-3/32")

Screw holes for mounting
40(1-9/16")
ø30(1-3/16")
Hole for cable
83.5 (3-9/32")
20(25/32")
46(1-13/16")

Template for mounting

46±0.2(1-13/16")
ø4.7(3/16")
83.5±0.2(3-9/32")
ø4.7(3/16")

Optional Accessories

Mount Bracket / Other

	WALL		POLE	CORNER
	1	2	1	1
combination	Wall Mount Bracket **WV-QWL500-W** (White)	Wall Mount Bracket **WV-QWL501-W** (White)	Pole Mount Bracket **PAPM4W** (White)	Corner Mount Bracket **PACA4W** (White)
	Adapter Box **WV-QJB500-W** (White) *If needed.	Mount Bracket **WV-QSR501-W** (White)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**)

	HANGING		CEILING	
	1	2	1	2
combination	Ceiling Mount Bracket **WV-QCL501-W** (White)	Ceiling Mount Bracket **WV-QCL101-W** *1 (White)	Ceiling Mount Bracket **WV-Q105A**	Ceiling Mount Bracket (Embedded) **WV-QEM100-W** (White)
	Mount Bracket **WV-QSR501-W** (White)	This bracket requires 1 ½" NPT pipe.		

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

Dome Cover

Dome Cover (Smoke type) **WV-CF5SA**

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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.

• Masses and dimensions are approximate.　• Specifications are subject to change without notice.

i-PRO
The Power of Truth

i-PRO Co., Ltd.
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(2A-295BL)