i-PRO

WV-U2542LA

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

4MP Varifocal Lens Outdoor 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

- Safe Cities
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
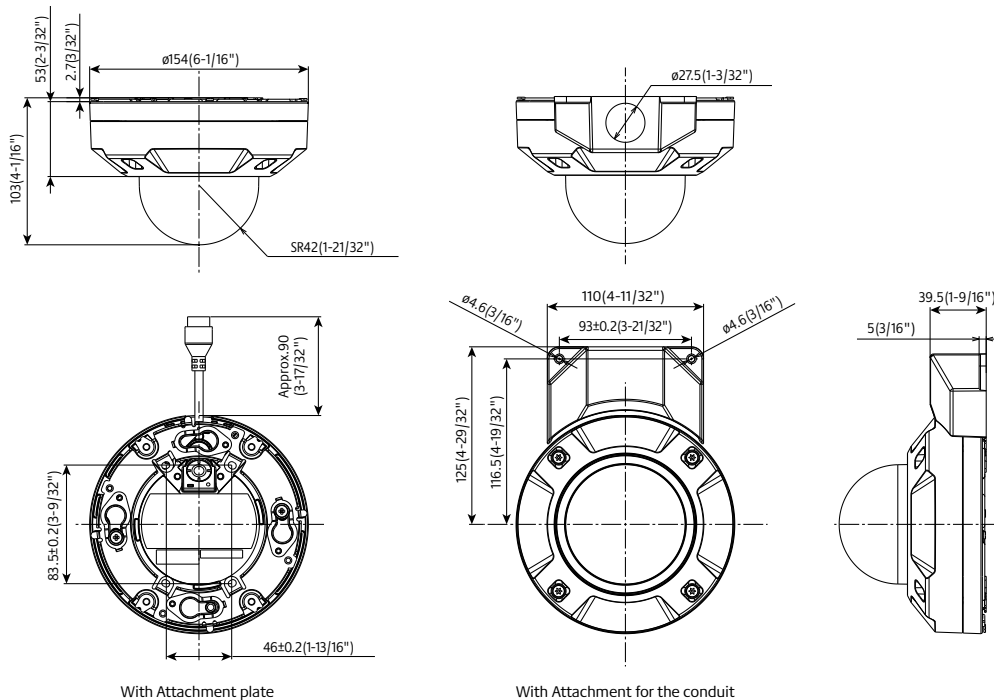- Retail / Logistics / Education / Hospital / Building

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 {0 footcandle}
		(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	ATW1/ ATW2/ AWC
	Maximum shutter	**[30fps mode]** Max. 1/10000 s to Max. 16/30 s
		[25fps mode] Max. 1/10000 s to Max. 16/25 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/ HLC/ 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	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}
	Optical zoom	2.5x (Motorized zoom / Motorized focus)
	Extra optical zoom	2.5x – 3.3x (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 : 43° (TELE) – 100° (WIDE), Vertical : 24° (TELE) – 56° (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: 43.0 m /141.0 ft, Tele: 130.0 m / 426.4 ft
	Observe (62.5ppm / 19ppf)	Wide: 17.2 m / 56.4 ft, Tele: 52.0 m / 170.6 ft
	Recognize (125ppm / 38ppf)	Wide: 8.6 m / 28.2 ft, Tele: 26.0 m / 85.3 ft
	Identify (250ppm / 76ppf)	Wide: 4.3 m / 14.1 ft, Tele: 13.0 m / 42.6 ft

Adjusting Angle		
	Ceiling mounting	—
	Wall mounting	—

Browser GUI		
	Camera Control	Brightness
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese

*1 Converted value
*2 Smart Coding (GOP and AUTO VIQS) is not available when setting 30fps.
*3 It may be necessary to upgrade the firmware to use these protocols.
*4 Only when installation work is properly performed according to the Installation Guide and appropriate waterproof treatment is performed.

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*2	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
	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*3, LLDP*3 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*3, LLDP*3
	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 150 mA, Approx. 7.2 W (Class 0 device)
	Ambient Operating Temperature	-30 °C to +50 °C (-22 °F to +122 °F) {Power On range: -20 °C to +50 °C (-4°F to +122 °F)}
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Anti-Condensation System	Temish element
	Water and Dust Resistance*4	IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Dimensions	ø154 mm (W) x 103 mm (H) {ø6-1/16 inches × 4-1/16 inches (H)} Dome radius 42 mm {1-21/32 inches}
	Mass (approx.)	1.0 kg {2.21 lbs.}
	Finish	Main body: Aluminum die cast/ PC resin, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Dome cover: Polycarbonate resin, Clear

Appearance

Unit : mm (inches)

With Attachment plate

With Attachment for the conduit

Optional Accessories

■ Mount Bracket / Other

WALL			POLE		CORNER	
1	2	3	1	2	1	2
Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White)	Sun Shade **WV-QSR500-W** (White)	Pole Mount Bracket **PAPM4W** (White)		Corner Mount Bracket **PACA4W** (White)	
Conduit Adapter **PAPM6** (Black) *If needed.	Adapter Box **WV-QJB500-W** (White) *If needed.	Base Bracket **WV-QJB501-W** (White)	Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**)	Wall Mount Bracket **PWM485W** (White)	Wall Mount Bracket **WV-QWL500-W** (White) (+ **WV-QJB500-W**)

HANGING			PARAPET	CEILING		
1	2	3	1	1	2	3
Ceiling Mount Bracket **WV-QCL501-W** (White)	Ceiling Mount Bracket **WV-QCL101-W** (White) *For indoor instalation only.	Ceiling Mount Bracket **WV-QCL101-W** *1 (White) *For indoor instalation only.	Parapet Mount Bracket **PPRM35W** (White)	Ceiling Mount Bracket (Embedded) **WV-QEM500-W** (White)	Base Bracket **WV-QJB501-W** (White)	Ceiling Mount Bracket **WV-Q105A** *For indoor instalation only.
Mount Bracket **WV-QSR501-W** (White)	Mount Bracket **PS485W** (White)	This bracket requires 1 ½" NPT pipe.	Mount Bracket **PS485W** (White)			

*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-CW7S**	Dome Cover (Smoke type with ClearSight coating) **WV-CW7SN**	Dome Cover (Clear type with ClearSight coating) **WV-CW7CN**

Trademarks and registered trademarks
– iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
– Android is a trademark of Google LLC.
– ONVIF is a trademark of ONVIF, Inc.
– All other trademarks identified herein are the property of their respective owners.

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.

⋮⋮⋮PRO
The Power of Truth

i-PRO Co., Ltd.
https://i-pro.com/

(2A-299BL)