

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

4MP 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
- 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



Specifications

Camera	Image Sensor	Approx. 1/2.7 type CMOS image sensor																					
	Effective pixels	Approx. 5.2 megapixels, 2688(H)×1944(V)																					
	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	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	The level can be set in the range of 0 to 255.																					
	Back light compensation / High light compensation	BLC/ HLC/ Off, The level can be set in the range of 0 to 31. 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 (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 area available																					
	Privacy Zone	On / Off, Up to 8 zones available																					
	VIQS	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	3.2 mm (1/8 inches)																					
	Optical zoom	1x																					
	Extra zoom	1.0x - 1.3x (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 : 100°, Vertical : 54°																					
DORI	Maximum Aperture Ratio	1 : 2.0																					
	Focus range	1 m (39-3/8 inches) - ∞																					
	Detect (25ppm / 8ppf)	43.0 m / 141.0 ft																					
	Observe (62.5ppm / 19ppf)	17.2 m / 56.4 ft																					
Recognize (125ppm / 38ppf)	8.6 m / 28.2 ft																						
Identify (250ppm / 76ppf)	4.3 m / 14.1 ft																						
Adjusting Angle	Horizontal (PAN) angle: -175 °~ +175 °, Vertical (TILT) angle: -30 °~ +80 ° 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 port(AUTO) / Unicast port(MANUAL) / Multicast																					
		Max. frame rate for each stream*2	<table border="1"> <thead> <tr> <th>Stream(1)</th> <th>Stream(2)</th> <th>Stream(3)</th> <th>JPEG(1)</th> <th>JPEG(2)</th> </tr> </thead> <tbody> <tr> <td>2688x1520(30fps)</td> <td>Off</td> <td>Off</td> <td>2560x1440(1fps)</td> <td>1920x1080(1fps)</td> </tr> <tr> <td>2560x1440(30fps)</td> <td>640x360(30fps)</td> <td>Off</td> <td>2560x1440(1fps)</td> <td>1920x1080(1fps)</td> </tr> <tr> <td>1920x1080(30fps)</td> <td>1920x1080(30fps)</td> <td>640x360(10fps)</td> <td>2560x1440(1fps)</td> <td>1920x1080(1fps)</td> </tr> </tbody> </table>		Stream(1)	Stream(2)	Stream(3)	JPEG(1)	JPEG(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)
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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 ³ , LLDP ³ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, 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 110 mA, Approx. 5.3 W (Class 2 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)	
	Wind Resistance	Up to 40 m/s (approx. 89 mph)	
	Dimensions	ø109 mm (W) x 62 mm (H) {ø4-9/32 inches x 2-7/16 inches (H)} Dome radius 30.5 mm (1-3/16 inches)	
	Mass (approx.)	270 g (0.60 lbs.)	
	Finish	Main body : Aluminum die cast / Polycarbonate resin, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : Polycarbonate resin, Clear	

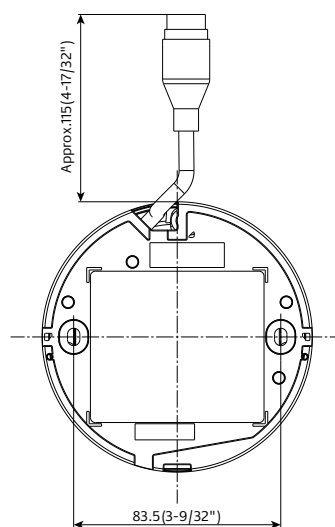
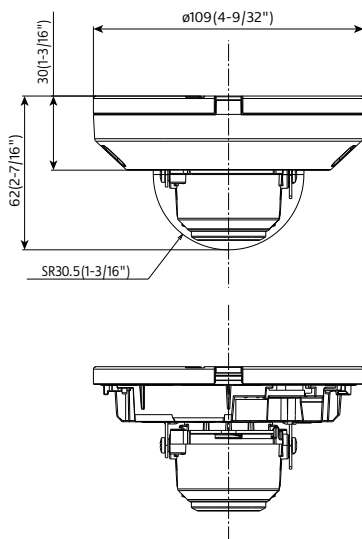
*1 Converted value

*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.










Appearance





Unit : mm (inches)

Optional Accessories

Mount Bracket / Other

		WALL		POLE	CORNER
		1	2	1	1
combination	Wall Mount Bracket WV-QWL500-W (i-PRO white) 	Base bracket WV-QJB502-W (i-PRO white) 	Pole Mount Bracket WV-QPL500-W (i-PRO white) 	Corner Mount Bracket WV-QCN500-W (i-PRO white) 	
	Adapter Box WV-QJB500-W (i-PRO white)  *If needed.	/		Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)  + 	Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)  + 

		HANGING	CEILING
		1	1
combination	Ceiling Mount Bracket WV-QCL100-W ^{*1} (i-PRO white)  *For indoor installation only	Base bracket WV-QJB502-W (i-PRO white) 	
	/		3rd. parties 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-QDC500S 

Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
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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.