

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°																							
	Maximum Aperture Ratio	1 : 2.0																							
DORI	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	Camera Control	Brightness																							
GUI	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese																							
	Network IF	10Base-T / 100Base-TX, RJ45 connector																							
Network	Resolution	[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><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)
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)	1920x1080(1fps)																					
H.265 / H.264	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	—
Alarm	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
Input/ Output	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
	ONVIF® Profile	G / S / T
	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
General	Monitor Output(for adjustment)	—
	Audio input	—
	Audio Output	—
	External I/O Terminals	—
	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

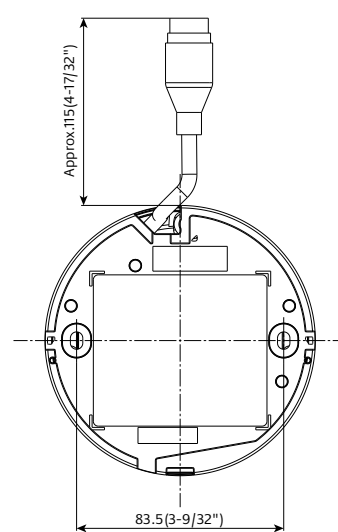
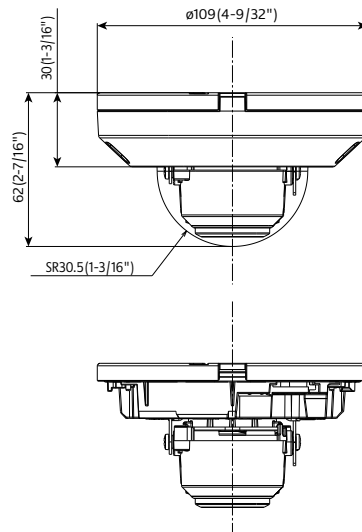
*1 Converted value

*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

combination	WALL		POLE	CORNER
	1	2	1	1
	Wall Mount Bracket WV-QWL500-W (White) 	Base bracket WV-QJB502-W (White) 	Pole Mount Bracket PAPM4W (White) 	Corner Mount Bracket PACA4W (White) 
	Adapter Box WV-QJB500-W (White)  *If needed.		Wall Mount Bracket WV-QWL500-W (White) (+ WV-QJB500-W) 	Wall Mount Bracket WV-QWL500-W (White) (+ WV-QJB500-W) 

combination	HANGING	CEILING	DOUBLE/OCTAGON GANG BOX
	1	1	1
	Ceiling Mount Bracket WV-QCL101-W *1 (White)  *For indoor installation only.	Base bracket WV-QJB502-W (White) 	Gangbox Adapter WV-QAT502-W (White) 
	This bracket requires 1 1/2" 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-QDC500S



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.