

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



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 (R Light Off) / On (R Light On) / Auto1 (R Light Off) / Auto2 (R 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)] 2688x1520, 1920x1080, 640x360, 320x180 [16:9 mode(30fps mode)] , [16:9 mode(25fps mode)] 2560x1440, 1920x1080, 640x360, 320x180 * [4:3 mode] is not supported.																					
	H.265/H.264	Transmission Mode Transmission Type Max. frame rate for each stream ³																					
		Unicast / Multicast																					
			<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)	1920x1080(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)																			
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, 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

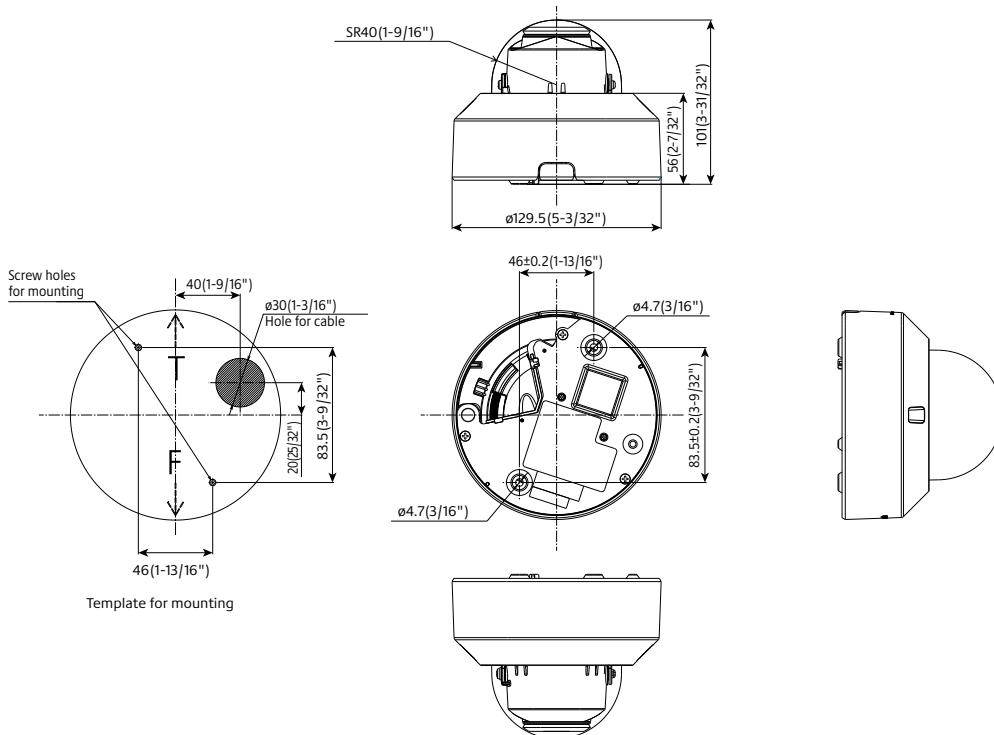
*2 When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode", "90 °" and "270 °" cannot be selected.

*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)








Template for mounting

Optional Accessories

Mount Bracket / Other

WALL		POLE	CORNER
1	2	1	1
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
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 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



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.