

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

Full HD 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.

- Full HD 1080p up to 30fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- Color night vision (0.006 to 0.1 lx)
- H.265 Smart Coding
- Corridor mode
(90 degrees or 270 degrees in image rotation)
- Built-in IR LED
- ONVIF Profile G / S / T

Industry examples

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



Specifications

Camera	Image Sensor	Approx. 1/3 type CMOS image sensor																					
	Minimum Illumination	Color : 0.1 lx, BW: 0.04 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 : 0.006 lx, BW: 0.0025 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.120 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 (Back light compensation) / HLC (High light compensation) / Off The level can be set in the range of 0 to 31.																					
	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: 30 m (Approx. 100 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 *2	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 - 1.5x (when resolution is 1280x720)																					
Digital (electronic) zoom		Choose from 3 levels of x1, x2, x4																					
Angular Field of View		[16 : 9 mode] Horizontal : 100°, Vertical : 54° [4 : 3 mode] Horizontal : 81°, Vertical : 60°																					
Maximum Aperture Ratio		1 : 2.0																					
Focusing Range	1 m (39-3/8 inches) - ∞																						
DORI	Detect (25ppm / 8ppf)	37.5 m / 122.9 ft																					
	Observe (62.5ppm / 19ppf)	15.0 m / 49.2 ft																					
	Recognize (125ppm / 38ppf)	7.5 m / 24.6 ft																					
	Identify (250ppm / 76ppf)	3.7 m / 12.3 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] 1920×1080, 1280×720, 640×360, 320×180 [4 : 3 mode] 1600×1200, 1280×960, VGA, QVGA																					
	H.265/ H.264	Transmission Mode Constant bit rate / VBR / Frame rate / Best effort																					
	H.264	Transmission Type Unicast port(AUTO) / Unicast port(MANUAL) / Multicast																					
		Max. frame rate for each stream *3	<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>1920x1080(30fps)</td> <td>640x360(30fps)</td> <td>Off</td> <td>1920x1080(1fps)</td> <td>1280x720(1fps)</td> </tr> <tr> <td>1280x720(30fps)</td> <td>1280x720(30fps)</td> <td>Off</td> <td>1920x1080(1fps)</td> <td>1280x720(1fps)</td> </tr> <tr> <td>1600x1200(30fps)</td> <td>640x480(30fps)</td> <td>Off</td> <td>1600x1200(1fps)</td> <td>1280x960(1fps)</td> </tr> </tbody> </table>	Stream(1)	Stream(2)	Stream(3)	JPEG(1)	JPEG(2)	1920x1080(30fps)	640x360(30fps)	Off	1920x1080(1fps)	1280x720(1fps)	1280x720(30fps)	1280x720(30fps)	Off	1920x1080(1fps)	1280x720(1fps)	1600x1200(30fps)	640x480(30fps)	Off	1600x1200(1fps)	1280x960(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 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	
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)	
	SDXC/SDHC/SD Memory Card (Option)	H.265/H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC Available 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, Panasonic alarm protocol output
Input/ Output	Monitor Output(for adjustment)	—	
	Audio input	—	
	Audio Output	—	
General	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 100 mA, Approx. 4.8 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

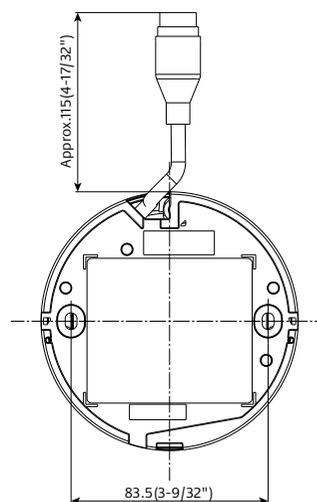
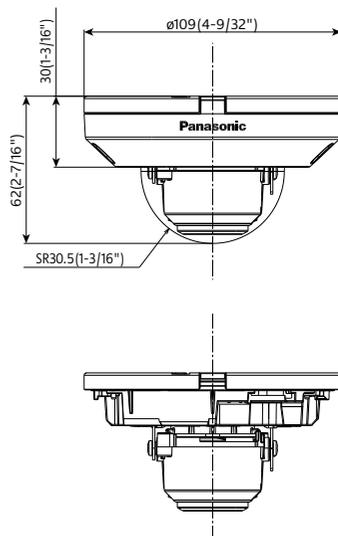
*2 When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode", "90 °" and "270 °" cannot be selected.

*3 Smart Coding(GOP and AUTO VIQS) is not available when setting 30fps.

*4 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 (White)	Base bracket WV-QJB502-W (White)		Pole Mount Bracket PAPM4W (White)	Corner Mount Bracket PACA4W (White)
	Adapter Box WV-QJB500-W (White)			Wall Mount Bracket WV-QWL500-W (White) (+ WV-QJB500-W)	Wall Mount Bracket WV-QWL500-W (White) (+ WV-QJB500-W)
		*If needed.			

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



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Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- Panasonic i-PRO Sensing Solutions 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.

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