

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

4MP 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
- 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

Industry examples

- Retail
- Education
- Public safety
- Bank / Hospital / Building



•i-PRO

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 (Back light compensation) / HLC (High light compensation) / Off 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*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 - 1.3x(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	
Focusing Range		1 m {39-3/8 inches} - ∞	
DORI	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	[16:9 mode(2688x1520 30fps mode)], [16:9 mode(2688x1520 25fps mode)] 2688×1520, 1920×1080, 640×360, 320×180					
	H.265/H.264	[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				
	JPEG	Image Quality	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)
	Smart Coding	Image Quality	1920x1080(30fps)	1920x1080(30fps)	640x360(10fps)	2560x1440(1fps)	1920x1080(1fps)
			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 IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTSP/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	—					
	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	-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	ø109 mm 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.)	250 g {0.55 lbs}					
	Finish	Main body : Aluminum die cast / Polycarbonate resin, I-PRO white Dome section : Polycarbonate resin, Clear					

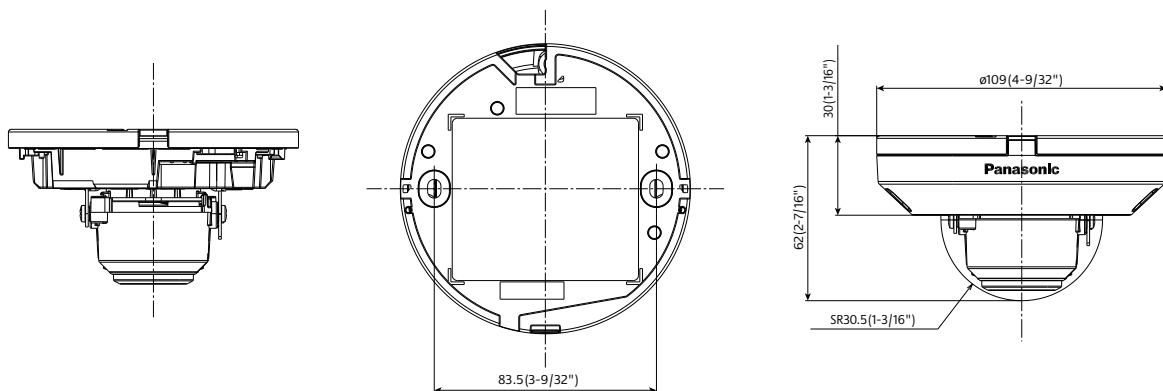
*1 Converted value

*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.












Appearance

Unit : mm (inches)



Optional Accessories

Mount Bracket / Other

	WALL		POLE	CORNER	HANGING	CEILING
	1	2	1	1	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) 	Ceiling Mount Bracket WV-QCL100-W *1 (i-PRO white) 	Base bracket WV-QJB502-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)  + 	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



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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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