

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
- Genetec Stratocast compatible

Industry examples

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



PRO

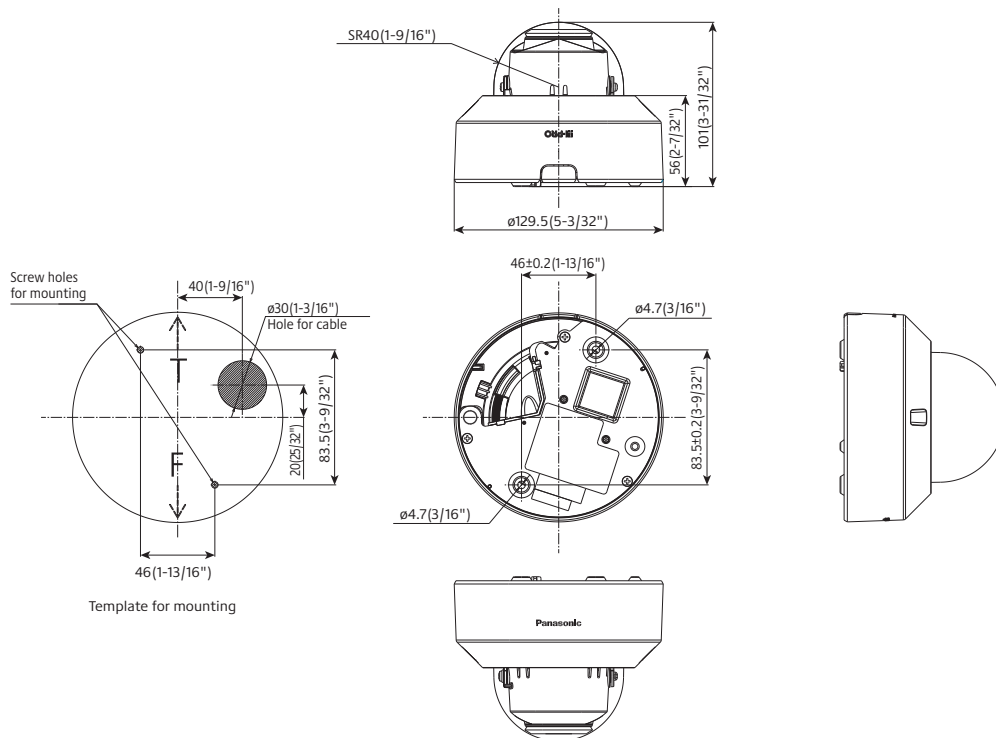
Specifications

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 (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 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)																			
Focusing 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																			
		Constant bit rate / VBR / Frame rate / Best effort 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)
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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	—
	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, 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 135 mA, Approx. 6.5 W (Class 0 device)
	Ambient Operating Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
	Ambient Operating Humidity	{Power On range: 0 °C to +50 °C (+32°F to +122 °F)}
	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







Optional Accessories

Mount Bracket / Other

	WALL		POLE	CORNER	HANGING	
	1	2	1	1	1	2
combination	Wall Mount Bracket WV-QWL501-W (i-PRO white) 	Wall Mount Bracket WV-QWL500-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-QCL501-W (i-PRO white) 	Ceiling Mount Bracket WV-QCL100-W *1 (i-PRO white) 
	Mount Bracket WV-QSR501-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) 	Mount Bracket WV-QSR501-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.

	CEILING		OTHER
	1	2	1
combination	Ceiling Mount Bracket (Embedded) WV-QEM100-W (i-PRO white) 	Ceiling Mount Bracket WV-Q105A 	Attachment pipe (For 3rd party bracket) WV-QAT500-W (i-PRO white) 
			Mount Bracket WV-QSR501-W (i-PRO white) 
3rd parties pipe			

Dome Cover

Dome Cover (Smoke type)
WV-CF5SA



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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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