

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

4MP Varifocal Lens Indoor Box 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)
- ONVIF Profile G / S / T
- Genetec Stratocast compatible

Industry examples

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



i-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) 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 (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 / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)																			
	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) - 103° (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: 40.7 m / 133.6 ft, Tele: 126.7 m / 415.8 ft																			
	Observe (62.5ppm / 19ppf)	Wide: 16.3 m / 53.4 ft, Tele: 50.7 m / 166.3 ft																			
	Recognize (125ppm / 38ppf)	Wide: 8.1 m / 26.7 ft, Tele: 25.3 m / 83.2 ft																			
	Identify (250ppm / 76ppf)	Wide: 4.1 m / 13.4 ft, Tele: 12.7 m / 41.6 ft																			
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	—
Input/Output	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, RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, 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
Alarm	ONVIF Profile	G / S / T
	Alarm Source	VMD alarm, SCD alarm, Command alarm
Input/Output	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, Panasonic alarm protocol 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	-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	59 mm (W) x 49 mm (H) x 116 mm (D) *Installing using the base bracket {2-5/16 inches (W) x 1-15/16 inches (H) x 4-9/16 inches (D)} (excluding side cover)
	Mass (approx.)	200 g {0.44 lbs.}
	Finish	Main body : PC / ABS resin, i-PRO white

*1 Converted value

*2 When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode",

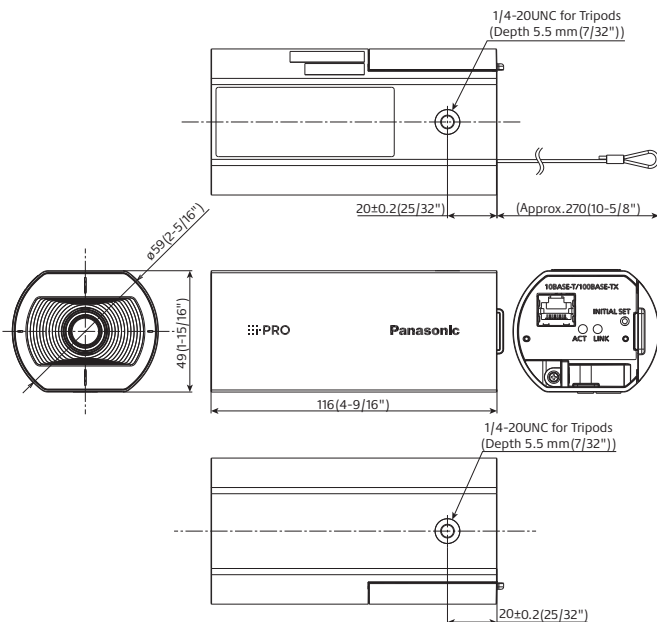
"90 °" and "270 °" cannot be selected.

*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)



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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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(2A-289A-R1)