

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

Full HD 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.

- 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)
- ONVIF Profile G / S / T

Industry examples

- Retail
- Education
- Public safety
- Bank / 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) 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. (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 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 : 102°, Vertical : 55° [4 : 3 mode] Horizontal : 83°, Vertical : 61°																				
	Maximum Aperture Ratio	1 : 2.0																				
	Focusing Range	1 m (39-3/8 inches) - ∞																				
DORI	Detect (25ppm / 8ppf)	36.2 m / 118.7 ft																				
	Observe (62.5ppm / 19ppf)	14.5 m / 47.5 ft																				
	Recognize (125ppm / 38ppf)	7.2 m / 23.7 ft																				
	Identify (250ppm / 76ppf)	3.6 m / 11.9 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	[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, 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 80 mA, Approx. 3.8 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.)	150 g {0.33 lbs.}	
	Finish	Main body: PC / ABS resin, i-PRO white	

^{*1} Converted value

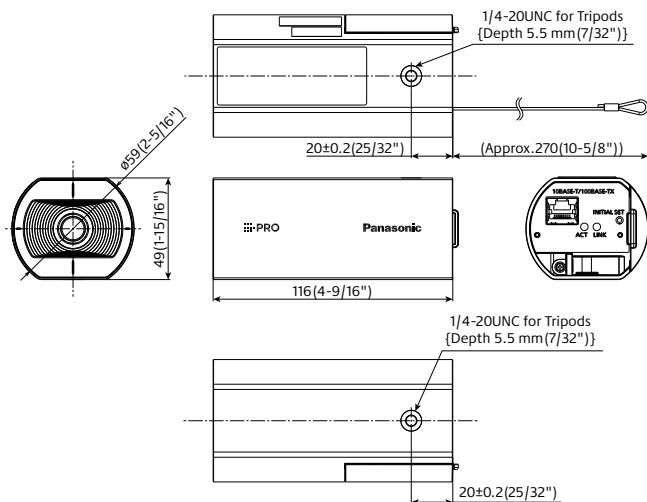
^{*2} When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode".

^{*} "90 °" and "270 °" cannot be selected.

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

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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