

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
*ONVIF is a trademark of ONVIF, Inc.
- Genetec Stratocast compatible

Industry examples

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



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 | |
| | Focus 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° | | |
| | Brightness | | |
| Browser GUI | Camera Control | | |
| | 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 | | 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, MQTT*4, LLDP*4 IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTP, RTSP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, 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 / 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, TCP alarm notification output | | | | | |
| | Monitor Output (for adjustment) | — | | | | | |
| Input/ Output | 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

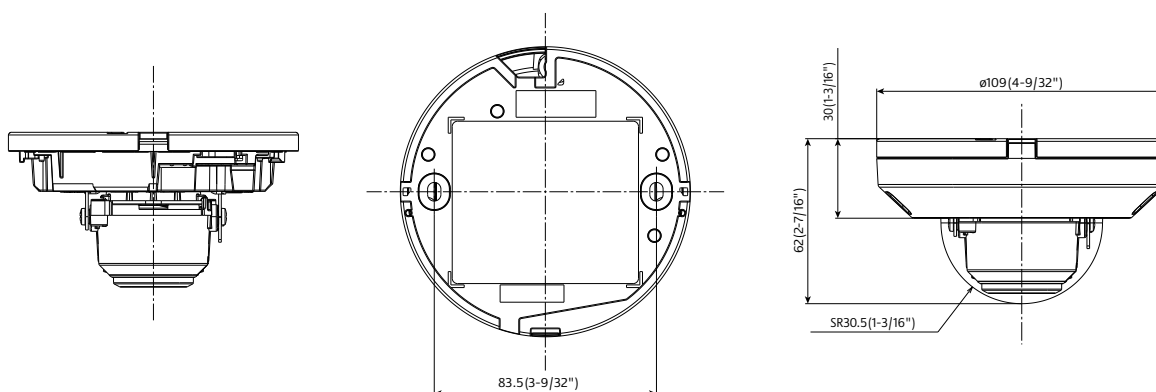
*2 When "4:3(30fps mode)" or "4:3(25fps mode)" is selected for "Image capture mode", "90°" and "270°" cannot be selected.

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

*4 It may be necessary to upgrade the firmware to use these protocols.










Appearance

Unit : mm (inches)



Optional Accessories

Mount Bracket / Other

| combination | WALL | | POLE | CORNER | HANGING | CEILING |
|-------------|--|--|--|--|---|--|
| | 1 | 2 | 1 | 1 | 1 | 1 |
| | 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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- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google LLC.
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Important

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