

U series PTZ camera

2MP (1080p) 3.1x Indoor PTZ Network Camera

U-Series launch gives customers PTZ's that meet top security certifications (FIPS 140-2 level 3) while also providing a unique blend of imaging performance, reliability and affordability.

Highly durable pan-tilt drive unit Reduced maintenance costs

- PAN,TILT drive endurance (1 million movements) to reduce maintenance frequency.

Easy installation

- U-series compact PTZ cameras can be installed discreetly and easily on low ceilings.
- Easy kitting packaging allows the camera to be set up without removing it from the box during kitting prior to installation.
- The addition of a diverse lineup of mounting brackets and optional PoE injectors enables flexible installation regardless of the location of new or existing installations.

High security standard

- Highest level of security. In addition to digital certificates issued by a third-party organization (GlobalSign®), FIPS 140-2 level3-certified hardware is installed.

Key i-PRO Spec.

- 2MP (1080p) 1920x1080
- 3.1x optical zoom
- Intelligent Auto
- Super Dynamic 144dB
- Color night vision (0.001 to 0.01 lx) (G : 0.002 to 0.03 lx)
- ONVIF® Profile G / S / T *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Retail (Shopping mall) / Logistics
- Transportation (Airport / Train, Subway station)
- Bank
- Building



WV-U61300-ZY



WV-U61300-ZYG (Smoke Dome)



Specifications

| | | | |
|-----------------------------|--|--|--|
| Camera | Image Sensor | Approx. 1/2.8 type CMOS image sensor | |
| | Minimum Illumination | Color : 0.01 lx (G: 0.03 lx) (50IRE, F1.3, 1/30s) Color : 0.001 lx (G: 0.002 lx) (50IRE, F1.3, 16/30s)*1 BW : 0.004 lx (G: 0.012 lx) (50IRE, F1.3, 1/30s) BW : 0.0003 lx (G: 0.0008 lx) (50IRE, F1.3, 16/30s) | |
| | White Balance | ATW1 / ATW2 / AWC | |
| | Shutter Speed | [60 fps Mode] 1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix [50 fps Mode] 1/50 Fix to 1/10000 Fix, [25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix | |
| | Intelligent Auto | On / Off | |
| | Super Dynamic*2 | On / Off, The level can be set in the range of 0 to 31. | |
| | Dynamic Range | Max.144 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 / Auto1 / Auto2 / 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 | |
| | Audio Detection | On / Off | |
| | AI Sound Classification | — | |
| | AI Analytics | — | |
| | Privacy Zone | On / Off, Up to 32 zones available | |
| | VIQS | On / Off, Up to 8 zones available | |
| Camera Title (OSD) | On / Off, Up to 40 characters (alphanumeric characters, marks) | | |
| Focus Adjustment | Auto focus | | |
| Lens | Optical zoom | 3.1x (Motorized zoom / Motorized Focus) | |
| | Extra zoom | Max. 4x (3.1 to 4x : When resolution is 1280 x 720) | |
| | Focal length | 2.9 - 9 mm {1/8 inches - 11/32 inches} | |
| | Angular Field of View | [16 : 9 mode] Horizontal : 36° (TELE) - 115° (WIDE), Vertical : 20° (TELE) - 61° (WIDE) [4 : 3 mode] Horizontal : 28° (TELE) - 82° (WIDE), Vertical : 20° (TELE) - 61° (WIDE) | |
| Maximum Aperture Ratio | 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) | | |
| Focus range | 0.3 m (11-13/16 inches) - ∞ | | |
| DORI | Detect (25ppm / 8ppf) | Wide: 25.4 m / 83.4 ft, Tele: 118.2 m / 387.7 ft | |
| | Observe (62.5ppm / 19ppf) | Wide: 10.2 m / 33.4 ft, Tele: 47.3 m / 155.1 ft | |
| | Recognize (125ppm / 38ppf) | Wide: 5.1 m / 16.7 ft, Tele: 23.6 m / 77.5 ft | |
| | Identify (250ppm / 76ppf) | Wide: 2.5 m / 8.3 ft, Tele: 11.8 m / 38.8 ft | |
| System on Chip (SoC) | Ambarella CV25M | | |
| Adjusting Angle | Horizontal : 0 to +350°, Vertical : 0 to +90°, Yaw : 0° | | |
| Pan/tilt | Panning Range | 0 - +350° | |
| | Panning Speed | Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 150°/s | |
| | Tilting Range | Operational 0 - +90° | |
| | Tilting Speed | Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 150°/s | |
| | Preset Positions | 256 positions | |
| | Auto Mode | Auto pan/ Preset sequence/ Patrol | |
| Browser GUI | Camera Control | Brightness, AUX On / Off | |
| | Audio | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High | |
| | GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese | |
| Network | Resolution | 10Base-T / 100Base-TX, RJ45 connector | |
| | H.265/ H.264 / JPEG (MJPEG) | [16 : 9 mode (60 fps mode)]*2, [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)]*2, [16 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)] 1280x960, VGA, QVGA [4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)] 2048x1536*4, 1280x960, VGA, QVGA | |
| | H.265/ H.264*5 | Constant bit rate / VBR / Frame rate / Best effort | |
| | JPEG | Unicast port (AUTO) / Unicast port (MANUAL) / Multicast | |
| | Image Quality | 10 steps | |

| | | |
|--------------------------------|------------------------------------|--|
| Network | Smart Coding | GOP (Group of pictures) control: Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/1s key-frame) / Frame rate control (Variable GOP 4s-16s with frame rate control) *Advanced and Frame rate control are only available with H.265. Smart Coding: Auto VIQS: On/Off |
| | Audio Compression | G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps |
| Audio transmission mode | Supported Protocol | Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) |
| | No. of Simultaneous Users | Up to 14 users (Depends on network conditions) |
| Secure | SDXC/SDHC/SD Memory Card | FIPS 140-2 level3, Device Certificate GlobalSign® pre-installed H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure 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 (iOS 8.0 or later), Android™ terminals |
| Alarm | ONVIF® Profile | G / S / T |
| | Alarm Source | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm |
| Input/Output | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output |
| | Audio input | Ø3.5 mm stereo mini jack For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V For line input : Input level : Approx. -10 dBV |
| External I/O Terminals | Audio Output | Ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV |
| | External I/O Terminals | ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) |
| General | Safety | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 |
| | EMC | FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035 |
| | Power Source and Power Consumption | DC12 V, PoE (IEEE802.3af) DC12 V: 890 mA / Approx. 10.7 W PoE DC 48 V: 250 mA / Approx.12.0 W (Class 0 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) |
| | Anti-Condensation System | — |
| | Dimensions | Ø131 mm x 128 mm (H) (Ø5-5/32 inches x 5-1/32 inches (H)) |
| | Mass (approx.) | Approx. 0.8 kg (1.76 lbs.) |
| | Finish | Main body : Resin, i-PRO white Dome section : polycarbonate resin, Clear (G: Smoke) |

*1 Converted value

*2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

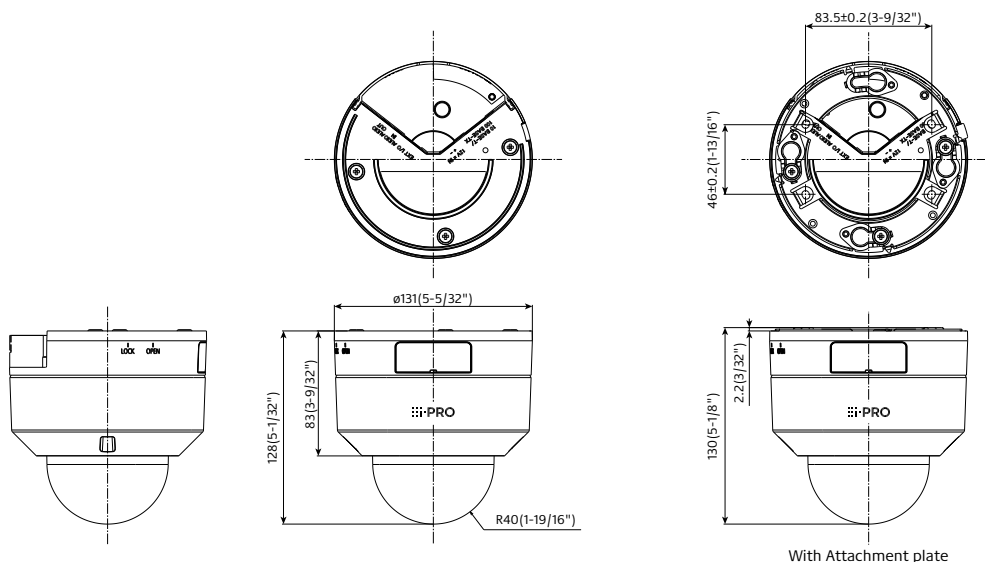
*3 For information on the operation verification of the supported web browsers, refer to our support website <Control No. C0132>.

*4 Used by super resolution techniques

*5 Transmission for 4 streams can be individually set.

*6 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).














Appearance










Unit : mm (inches)

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)  <small>*For indoor installation only.</small> |
| | Mount Bracket WV-QSR501-W (i-PRO white)  | Adapter Box WV-QJB500-W (i-PRO white)  <small>*if needed.</small> | Wall Mount Bracket WV-QWL501-W (i-PRO white)  | Wall Mount Bracket WV-QWL501-W (i-PRO white)  | Mount Bracket WV-QSR501-W (i-PRO white)  | |
| | | | Mount Bracket WV-QSR501-W (i-PRO white)  | Mount Bracket WV-QSR501-W (i-PRO white)  | | |

*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 | 3 | 1 |
| combination | Base Bracket WV-QJB501-W (i-PRO white)  | Ceiling Mount Bracket (Embedded) WV-QEM501-W (i-PRO white)  <small>*For indoor installation only.</small> | Base bracket WV-QJB504-W (i-PRO white)  | 3rd Party Pipe (Male or Female type) |
| | | | | Mount Bracket WV-QSR501F-W (i-PRO white, ISO Female thread)  |
| | | | | Mount Bracket WV-QSR501M-W (i-PRO white, ISO Male thread)  |
| | | | Mount Bracket WV-QSR501F1-W (White, ANSI Female thread)  | |
| | | | Mount Bracket WV-QSR501M1-W (White, ANSI Male thread)  | |

Dome Cover

Dome Cover (Smoke type)
WV-CF5S



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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.