

# WV-U65300-ZYG

2MP (1080p) 3.1x Outdoor PTZ Network Camera, Smoke Model

## U series PTZ 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.



- 2MP (1080p) 1920x1080
- 3.1x optical zoom
- Intelligent Auto
- Super Dynamic 144dB
- Color night vision (0.002 to 0.03 lx)
- Durable Pan/Tilt gear mechanism
- IP66, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified Secure Element  
(EdgeLock® SE050F NXP® Semiconductors)
- Smoke Model
- NDAA Compliant



# SPECIFICATIONS

| Camera  |   |
|---|---|
| Image Sensor                                      | Approx. 1/2.8 type CMOS image sensor  |
| Minimum Illumination                              | Color : 0.03 lx(50IRE, F1.3, 1/30s)<br>Color : 0.002 lx(50IRE, F1.3, 16/30s)<br>BW : 0.012 lx(50IRE, F1.3, 1/30s)<br>BW : 0.0008 lx(50IRE, F1.3, 16/30s)                                |
| White Balance                                     | ATW1 / ATW2 / AWC   |
| Shutter Speed                                     | [60 fps Mode]<br>1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix<br>[50 fps Mode]<br>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                                     | 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<br>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<br>(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]<br>Horizontal : 36° (TELE) - 113° (WIDE), Vertical : 20° (TELE) - 60° (WIDE)<br>[ 4 : 3 mode]<br>Horizontal : 26° (TELE) - 82° (WIDE), Vertical : 20° (TELE) - 60° (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: 25.4m / 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: 2.5m / 8.3 ft, Tele: 11.8 m / 38.8 ft     |

| System on Chip (SoC) |                 |
|----------------------|-----------------|
| System on Chip (SoC) | Ambarella CV25M |

| Adjusting Angle |   |
|-----------------|---|
| 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  |
| Self Return      | 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min |

| Browser GUI               |  |
|---------------------------|--|
| Camera Control            | Brightness, AUX On / Off   |
| Audio                     | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High<br>Audio Output : On / Off Volume adjustment : Low / Middle / High |
| GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese  |
| Browser                   | Microsoft Edge, Firefox, Google Chrome   |

| Network                              |  |
|--------------------------------------|--|
| Network IF                           | 10 Base-T / 100 Base-TX, RJ45 connector  |
| Resolution H.265/ H.264 JPEG (MJPEG) | [16 : 9 mode (60 fps mode)] , [16 : 9 mode (30 fps mode)],<br>[16 : 9 mode (50 fps mode)] , [16 : 9 mode (25 fps mode)]<br>1920x1080, 1280x720, 640x360, 320x180<br>[4 : 3 mode (30 fps mode)], [4 : 3 mode (25 fps mode)]<br>1280x960, VGA, QVGA<br>[4 : 3 mode (15 fps mode)], [4 : 3 mode (12.5 fps mode)]<br>2048x1536 , 1280x960, VGA, QVGA |
| H.265/H.264                          | [Transmission Mode]<br>Constant bit rate / VBR / Frame rate / Best effort<br>[Transmission Type]<br>Unicast port (AUTO) / Unicast port (MANUAL) / Multicast  |
| JPEG                                 | [Image Quality]<br>10 steps  |
| Smart Coding                         | GOP (Group of pictures) control:<br>Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s) /<br>Advanced(Fixed GOP 60s w/1s key-frame) /<br>Frame rate control (Variable GOP 4s-16s with frame rate control)<br>*Advanced and Frame rate control are only available with H.265.<br>Smart Coding: Auto VIQS: On/Off                             |
| Audio Compression                    | G.726 (ADPCM) : 16 kbps / 32 kbps<br>G.711 : 64 kbps<br>AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps  |
| Audio Transmission Mode              | Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)  |

|                                   |  |
|-----------------------------------|--|
| 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, SFTP, MQTT, LLDP<br>IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, NMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, LLDP, NTCIP  |
| No. of Simultaneous Users         | Up to 14 users (Depends on network conditions)   |
| Secure                            | FIPS 140-2 level 3 Certified Secure Element (NXP® EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed,<br>User authentication, Host authentication, HTTPS, 802.1X Support, Data encryption   |
| SDXC/SDHC/SD Memory Card (Option) | H.265 / H.264 recording :<br>Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure<br>JPEG recording :<br>Manual REC / Alarm REC (Pre/Post) / Backup upon network failure<br>Compatible SDXC/SDHC/SD Memory Card :<br>microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB<br>microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB<br>microSD memory card : 2 GB |
| Mobile Terminal Compatibility     | iPad, iPhone (iOS 8.0 or later), Android™ terminals  |
| ONVIF® Profile                    | G / S / T  |

## Alarm

|               |   |
|---------------|---|
| Alarm Source  | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm  |
| Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification,<br>HTTP alarm notification Indication on browser, TCP alarm notification output |

## Input/Output

|                        |  |
|------------------------|--|
| Audio Input            | ø3.5 mm stereo mini jack<br>For microphone input : Recommended applicable microphone : Plug-in power type<br>(Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz))<br>Input impedance : Approx. 2 kΩ (unbalanced)<br>Supply voltage : 2.5 V ±0.5 V<br>For line input : Input level : Approx. -10 dBV |
| Audio Output           | ø3.5 mm stereo mini jack (monaural output)<br>Output impedance : Approx. 600 Ω (unbalanced)<br>Output level : -20 dBV  |
| External I/O Terminals | ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)<br>ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)<br>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)<br>DC12 V: 890 mA / Approx. 10.7 W<br>PoE DC 48 V: 250 mA / Approx.12.0 W (Class 0 device)  |
| Ambient Operating Temperature      | -30 °C to +55 °C (-22 °F to +131 °F)<br>(Power On range : -20 °C to +55 °C {-4 °F to +131 °F})<br>Maximum temperature according to NEMA TS2(2.2.7) : 74 °C(165°F) |
| Ambient Operating Humidity         | 10 to 100 % (no condensation)   |
| Anti-Condensation System           | Temish element  |
| Water and Dust Resistance          | IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant   |
| Shock Resistance                   | IK10 (IEC 62262)  |
| Wind Resistance                    | Up to 40 m/s {approx. 89 mph}   |
| Other standard support             | NEMA TS2(2.2.7-2.2.9)   |
| Dimensions                         | ø155 mm x 134 mm (H) {ø6-3/32 inches x 5-9/32 inches (H)}   |
| Mass (Approx.)                     | Approx. 1.6 kg {3.53 lbs.}  |
| Finish                             | Main body : Aluminum die cast and polycarbonate resin, i-PRO white<br>Dome section : Polycarbonate resin, Smoke   |

## NOTES

### 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.

### Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. - Android is a trademark of Google LLC.
- ONVIF is a trademark of ONVIF, Inc.
- All other trademarks identified herein are the property of their respective owners

©i-PRO Co., Ltd All rights reserved / February 2023

## OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\)](http://i-pro.com).



WV-QWL501-W  
Mount Bracket



WV-QWL500-W  
Mount Bracket



WV-QSR501M1-W  
Mount Bracket



WV-QSR501M-W  
Mount Bracket



WV-QSR501F1-W  
Mount Bracket



WV-QSR501F-W  
Mount Bracket



WV-QSR501-W  
Mount Bracket



WV-QPL500-W  
Mount Bracket



WV-QJB504-W  
Base Bracket



WV-QJB501-W  
Base Bracket



WV-QJB500-W  
Mount Bracket



WV-QEM502-W  
Ceiling Mount Bracket



WV-QCN500-W  
Mount Bracket



WV-QCL501-W  
Mount Bracket



WV-QCL101-W  
Mount Bracket



WV-QCL100-W  
Mount Bracket



WV-QCA501A  
I/O Cable



WV-QCA500A  
RJ45 Ethernet Cable



WV-CW7SN  
Dome cover



WV-CW7S  
Dome cover



WV-CW7CN  
Dome cover



WV-PM500  
Compact microphone  
unit for surveillance  
cameras

# APPEARANCE

