

# Z810

## 8MP Outdoor Zoom Dome with D/N, Adaptive IR, Superior WDR, SLLS, 4.3x Zoom Lens



- 8 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- Superior WDR
- H.265 Compression
- Wide Angle
- Built-in Analytics
- Event trigger, response and notification

### ► Specifications

#### Device

|                          |  |
|--------------------------|--|
| Product Type             | Zoom Dome  |
| Maximum Resolution       | 8MP  |
| Application Environment  | Outdoor  |
| Image Sensor             | Progressive Scan CMOS  |
| Sensor Size              | 1/2.8 "  |
| Day / Night              | Yes  |
| Low Light Sensitivity    | Superior   |
| Minimum Illumination     | Color: 0.003 lux at F1.6 (AGC on); B/W: 0 (IR LED on)          |
| Mechanical IR Cut Filter | Yes  |
| IR LED                   | Adaptive IR LED x 3 (850 nm)                                   |
| IR Working Distance      | 40m  |
| Electronic Shutter       | 1-1/100000 second (manual mode); 1-1/100000 second (auto mode) |
| S/N Ratio                | 75 dB  |

#### Lens

|              |                 |
|--------------|-----------------|
| Focal Length | Zoom, f2.8-12mm |
|--------------|-----------------|

|                          |   |
|--------------------------|---|
| Aperture                 | F1.6  |
| Zoom Ratio               | 4.3x optical zoom                             |
| Zoom Application         | Camera Installation                           |
| Focus                    | Auto focus                                    |
| Horizontal Viewing Angle | 99.8° - 31.1°                                 |
| Vertical Viewing Angle   | 53.1° - 17.7°                                 |
| Viewing Angle Adjustment | Pan: 0°-355°, Tilt: 0°-80°, Rotation: 0°-355° |

## Video

|                                   |  |
|-----------------------------------|--|
| Compression                       | H.265, H.264 (Baseline/ Main/ High profile), MJPEG   |
| Maximum Frame Rate vs. Resolution | 20 fps at 3840 x 2160 30 fps at 3072 x 1728 30 fps at 2560 x 1440 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 720 x 576 30 fps at 640 x 360 30 fps at 704 x 288 30 fps at 352 x 288                                       |
| Multi-Streaming                   | Simultaneous triple streams  |
| Wide Dynamic Range                | Superior WDR (120 dB)  |
| Image Enhancement                 | White Balance, Backlight compensation (BLC), Brightness, Contrast, Sharpness, Automatic gain control, Defogging  |
| Digital Noise Reduction           | 2D + 3D DNR  |
| Privacy Mask                      | 4 configurable regions   |
| Text Overlay                      | Yes  |
| Built-in Analytics                | People Counting, People Detection, Vehicle Detection, Tampering Detection, Intrusion Detection (Forbidden Area Detection), Object Line Crossing Detection, Object Enter Area Detection, Object Exit Area Detection, Appear in Area |
| Image Orientation                 | Flip, Mirror, Rotation (Corridor mode)   |

## Audio

|            |   |
|------------|---|
| Audio Type | 2-way, Built-in Microphone, Line-in, Line-out |
|------------|---|

## Network

|                            |  |
|----------------------------|--|
| Network Protocol & Service | IPv4, TCP, UDP, DHCP, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, QoS, SNMP, IEEE 802.1X |
| Ethernet Port              | 1 x Ethernet (10/100 Base-T), RJ-45 pigtail connector  |
| Security                   | IP address filtering, HTTPS encryption, Password protected user level  |

## Event

|                |   |
|----------------|---|
| Event Trigger  | Video motion detection (4 regions), External device through digital input, Sound detection, Intelligent event detection                                     |
| Event Response | E-mail notification with snapshots, Save video or snapshot to local storage, Upload snapshot to FTP server, Activate external device through digital output |

## Integration

|                 |   |
|-----------------|---|
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T          |
| Web Browser     | IE 11, Google Chrome, Microsoft Edge, Firefox |

**Interface**

|                      |   |
|----------------------|---|
| Local Storage        | MicroSD Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only) |
| Digital Input/Output | 1/1 (Cable with Terminal block)   |
| Operating Button     | Reset Button  |

**General**

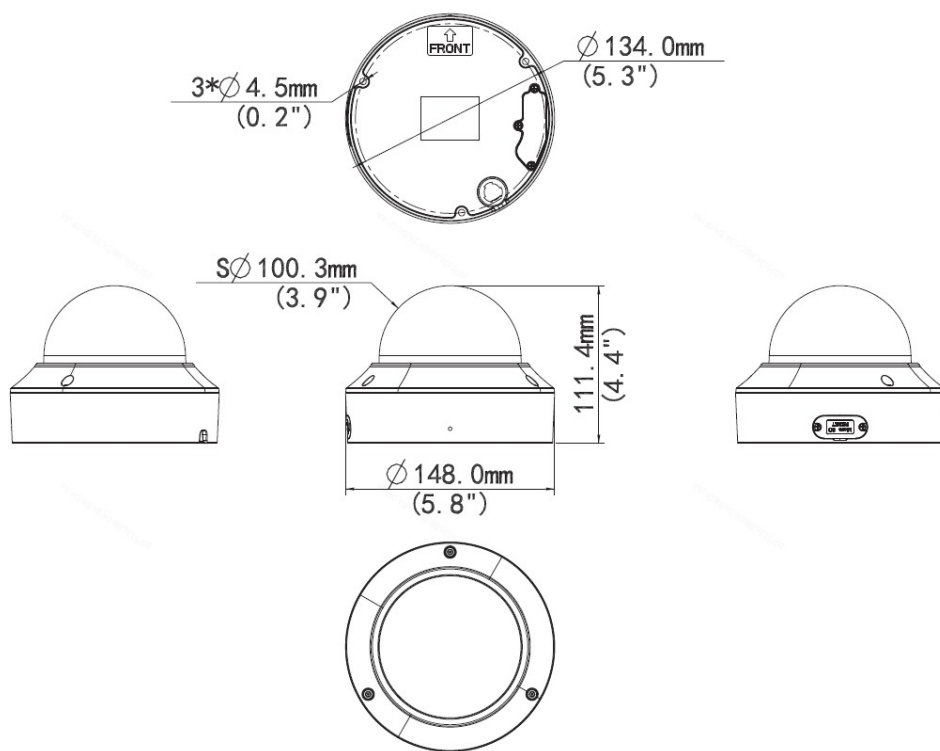
|                       |  |
|-----------------------|--|
| Power Source          | DC 12V, PoE (IEEE802.3af)  |
| Weight                | 976.5g (2.15lb)  |
| Dimensions            | (Ø x H): 148mm x 111.4mm (5.8" x 4.4")   |
| Environmental Casing  | Weatherproof (IP68), Vandal proof metal casing (IK10)  |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.                                    |
| Operating Temperature | -30°C ~ 60°C (-22°F ~ 140°F)   |
| Approvals             | CE Class B, FCC Class B, IP68, IK10 (metal casing), UL Listed  |
| Color                 | White  |
| Material              | Metal Plastic  |
| Real-time Clock (RTC) | Yes  |
| Warranty              | 2 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

## ► Photo Indication



- 1 DC 12V Power Input
- 2 Audio Input / Output
- 3 Digital Input / Output
- 4 Ethernet Port
- 5 Built-in Microphone
- 6 Reset Button
- 7 Memory Card Slot












## ► Dimension Diagram



Unit: mm [inch]

## ► Related Products

### Mounting Accessories - Camera Mount

|           |   |   |
|-----------|---|---|
| PMAX-0102 |    | Straight Tube   |
| PMAX-0103 |    | Straight Tube with Bracket  |
| PMAX-0104 |    | Extension Tube  |
| PMAX-0127 |    | Mount Kit (for Z83, Z84, Z810, A811, A818)                            |
| PMAX-0128 |    | Pendant Mount (for Z85, Z86, Z87, Z810)                               |
| PMAX-0352 |    | Wall Mount with Built-in Junction Box (for Z83, Z84, Z810)            |
| PMAX-0527 |    | Pole Mount (for Z4x, Z710, Z8x, Z9x, A7x), supports 2.64" to 5" Poles |
| PMAX-0723 |   | Junction Box (for Z83, Z84)   |
| PMAX-0808 |  | Converter Ring, 1.5" NPT for Third-Party Mounting Accessories         |
| PMAX-1031 |  | Flush Mount (for Z83, Z84)  |
| PMAX-1501 |  | Cable Gland for Outdoor Domes (except Hemispheric Domes)              |

**Note:** Some mounting accessories may need additional accessories for installation. Please check [www.acti.com/mountingselector](http://www.acti.com/mountingselector) for more information.

### Power Supply Accessories - Power Adapter

|           |   |   |
|-----------|---|---|
| PPBX-0012 |  | Power Adapter AC 100~240V (US), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x               |
| PPBX-0013 |  | Power Adapter AC 100~240V (EU), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x               |
| PPBX-0014 |  | Power Adapter AC 100~240V (UK), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x               |
| PPBX-0026 |  | Power Adapter AC 100~240V (US) for A3x, A4x, A7x, A88, A9x, Z3x, Z4x, Z7x, Z8x, Z9x |