

# Z84

## 4MP 4.3x Outdoor Zoom Dome with IR LED 40m, WDR 120dB



- 4 Megapixel, 4.3x Zoom Dome
- Weatherproof (IP68), Vandal proof (IK10), UL Listed
- H.265 Compression
- Wide Angle
- Event trigger, response and notification

### ► Specifications

#### Product Profile

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Product Type             | Zoom Dome                                                      |
| Application Environment  | Outdoor                                                        |
| Maximum Resolution       | 4MP                                                            |
| Image Sensor             | Progressive Scan CMOS                                          |
| Sensor Size              | 1/3 "                                                          |
| Effective Pixels         | 2688(H) X 1520(V) (4.09 MP)                                    |
| Day / Night              | Yes                                                            |
| Low Light Sensitivity    | Superior                                                       |
| Minimum Illumination     | Color: 0.01 lux; B/W: 0 lux (IR LED on)                        |
| Mechanical IR Cut Filter | Yes                                                            |
| IR LED                   | Adaptive IR LED                                                |
| IR Working Distance      | 40m                                                            |
| Electronic Shutter       | 1-1/100000 second (manual mode); 1-1/100000 second (auto mode) |
| S/N Ratio                | 52 dB                                                          |

## Lens

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Focal Length             | Zoom, f2.8-12mm                               |
| Aperture                 | F1.6                                          |
| Zoom Ratio               | 4.3x optical zoom                             |
| Zoom Application         | Camera Installation                           |
| Iris                     | Fixed iris                                    |
| Focus                    | Auto focus                                    |
| Lens Mount               | Board mount                                   |
| Horizontal Viewing Angle | 91° - 27°                                     |
| Vertical Viewing Angle   | 54.4° - 13.7°                                 |
| Viewing Angle Adjustment | Pan: 0°-360°, Tilt: 0°-80°, Rotation: 0°-360° |

## Video

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression                       | H.265, H.264 (Baseline/ Main profile), MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum Frame Rate vs. Resolution | 20 fps at 2592 x 1520 20 fps at 2048 x 1520 20 fps at 1920 x 1080 20 fps at 1280 x 720 20 fps at 640 x 360 20 fps at 704 x 576 20 fps at 704 x 288 20 fps at 352 x 288                                                                                                                                                                                                                                                                                                          |
| Bit Rate Mode                     | Constant, Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Multi-Streaming                   | Simultaneous triple streams                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Digital Noise Reduction           | 2D + 3D DNR                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Wide Dynamic Range                | Superior WDR (120 dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Image Orientation                 | Flip, Mirror                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Image Enhancement                 | White Balance, Backlight compensation (BLC), Brightness, Contrast, Sharpness, Automatic gain control (AGC), Defogging                                                                                                                                                                                                                                                                                                                                                           |
| Privacy Mask                      | 4 configurable regions                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Text Overlay                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Built-in Analytics                | Tampering Detection, Intrusion Detection (Forbidden Area Detection)*                                                                                                                                                                                                                                                                                                                                                                                                            |
| Server-based Analytics            | Object Line Counting, People Counting, Face Detection, Object Based Motion Detection, Tamper, Object Line Crossing Detection, Object Enter Area Detection, Missing Object Detection, Unattended Object Detection, Smoke Detection, Heat Map, Dwell Time, Direction Detection, Automatic License Plate Recognition, People Queue Detection, (Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to maximize analytical accuracy) |

## Network

|                            |                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|
| Network Protocol & Service | IPv4, TCP, UDP, DHCP, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, QoS, SSL/TLS |
| 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), Intelligent event detection.                                     |
| Event Response | E-mail notification with snapshots, Upload snapshot to FTP server, Save video or snapshot to storage |

**Integration**

|                 |                                      |
|-----------------|--------------------------------------|
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T |
| Web Browser     | IE 11                                |

**Interface**

|                  |              |
|------------------|--------------|
| Operating Button | Reset Button |
|------------------|--------------|

**General**

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)                                                                                                      |
| Power Consumption     | 6 W (PoE)                                                                                                                              |
| Weight                | 909g (2.004lb)                                                                                                                         |
| Dimensions            | (Ø x H): 148mm x 111.3mm (5.8" x 4.4")                                                                                                 |
| Environmental Casing  | Weatherproof (IP68), Vandal proof (IK10)                                                                                               |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.                                    |
| Operating Temperature | -40°C ~ 60°C (-40°F ~ 140°F)                                                                                                           |
| Operating Humidity    | 10% - 95% RH, non-condensing                                                                                                           |
| Approvals             | CE Class B, FCC Class B, EAC, IP68, IK10, UL Listed                                                                                    |
| Warranty              | 2 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

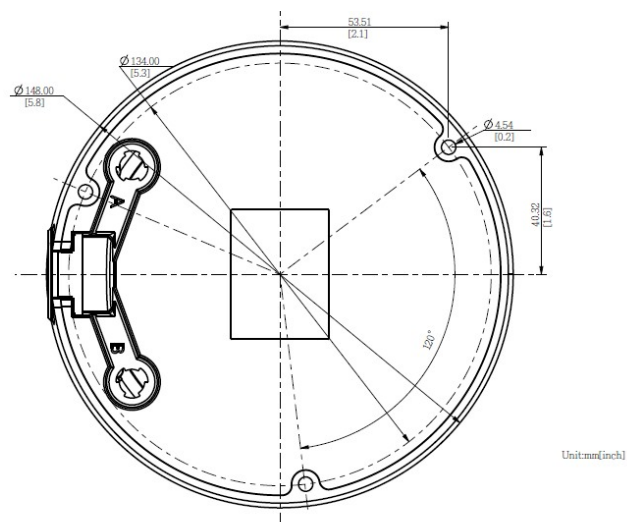
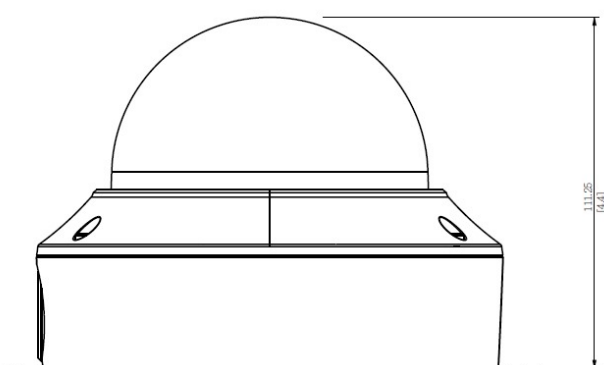
\* Intrusion detection is integrated with ZNR series.

## ► Photo Indication



- 1 DC 12V Power Input
- 2 Ethernet Port
- 3 Reset Button

## ► 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-0302 |    | Gooseneck with Bracket                                                                                                                           |
| PMAX-0303 |    | Gooseneck                                                                                                                                        |
| PMAX-0352 |    | Wall Mount with Built-in Junction Box (for Z83, Z84, Z810)                                                                                       |
| PMAX-0357 |   | Wall Mount (for A826)                                                                                                                            |
| PMAX-0402 |  | Corner Mount                                                                                                                                     |
| PMAX-0503 |  | Pole Mount (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" Poles                       |
| PMAX-0505 |  | Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0330), supports 2" to 3" Poles |
| PMAX-0527 |  | Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550), supports 2.64" to 5" Poles                                                      |
| PMAX-0702 |  | Junction Box for PTZ and Dome Cameras                                                                                                            |
| 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-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 |

Power Supply Accessories - PoE Injector

|           |  |                                                                                                                                                          |
|-----------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPOE-0107 |  | High PoE Injector IEEE 802.3at compliant, AC 100~240V, with universal connectors (for A416, A418, B913, B923, B934, Q450, Q75, VMGB-60X, Z37, Z71, Z952) |
|-----------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|