

# A84

## 12MP Face, People and Car Detection Outdoor Zoom Dome with D/N, Adaptive IR, Extreme WDR, SLLS, 3x Zoom Lens



- Face, People and Car Detection
- 12 Megapixel with 4K Ultra HD
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 3x Zoom Lens with f3.6-11mm/F1.5, P-Iris, Auto focus (for installation)
- Extreme WDR
- H.265 Compression
- Super wide angle
- Built-in Analytics
- Event trigger, response and notification

### ► Specifications

#### Device

|                          |  |
|--------------------------|--|
| Product Type             | Zoom Dome  |
| Maximum Resolution       | 12MP   |
| Product Application      | Face, People and Car Detection                                   |
| Application Environment  | Outdoor  |
| Image Sensor             | Progressive Scan CMOS  |
| Sensor Size              | 1/1.7 "  |
| Effective Pixels         | 4072(H) X 3046(V) (12.4 MP)                                      |
| Day / Night              | Yes  |
| Low Light Sensitivity    | Superior   |
| Minimum Illumination     | Color: 0.05 lux at F1.5, B/W: 0.005 lux at F1.5                  |
| Color to B/W Switch      | ISP based switch, configurable                                   |
| Mechanical IR Cut Filter | Yes  |
| IR Sensitivity Range     | 700-1150nm   |
| IR LED                   | Adaptive IR LED  |
| IR Working Distance      | 30m  |
| Electronic Shutter       | 1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode) |

|                                  |          |
|----------------------------------|----------|
| Horizontal Resolution (TV Lines) | 3000 TVL |
| S/N Ratio                        | 56 dB    |

**Lens**

|                          |  |
|--------------------------|--|
| Focal Length             | Zoom, f3.6-11mm                          |
| Aperture                 | F1.5                                     |
| Zoom Ratio               | 3x optical                               |
| Zoom Application         | Camera Installation                      |
| Iris                     | P-Iris                                   |
| Focus                    | Auto focus                               |
| Lens Mount               | Board mount                              |
| Horizontal Viewing Angle | 110.3° - 45.6°                           |
| Vertical Viewing Angle   | 55.5° - 24°                              |
| Viewing Angle Adjustment | Pan: ±135°, Tilt: 0°-90°, Rotation: ±90° |

**PTZ**

|                            |   |
|----------------------------|---|
| Pan, Tilt or Zoom protocol | Visca, Pelco-D, Pelco-P, ACTi URL command |
|----------------------------|---|

**Video**

|                                   |   |
|-----------------------------------|---|
| Compression                       | H.265, H.264 (Baseline/ Main/ High profile), MJPEG  |
| Maximum Frame Rate vs. Resolution | 20 fps at 4000 x 3000 30 fps at 4096 x 2160 (4K Ultra HD) 30 fps at 3840 x 2160 (4K Ultra HD) 30 fps at 2592 x 1944 30 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 720 x 480 30 fps at 640 x 480 30 fps at 320 x 240  |
| Multi-Streaming                   | Simultaneous triple streams based on three configurations   |
| Bit Rate                          | 128Kbps - 12Mbps (per stream)   |
| Bit Rate Mode                     | Constant, Variable  |
| Wide Dynamic Range                | Extreme WDR (130 dB)  |
| Image Enhancement                 | White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Flickerless, Digital Image Stabilizer (DIS, EIS), Defogging   |
| Digital Noise Reduction           | 2D + 3D DNR   |
| Privacy Mask                      | Yes, 4 configurable regions   |
| Text Overlay                      | Yes   |
| On-Screen Graphics                | Yes   |
| Built-in Analytics                | People Detection, Car Detection, Face Detection, Tampering 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) |
| Image Orientation                 | Flip, Mirror, Rotation  |
| IVS performance                   | Certain algorithms may require more computing power, which may limit the number of algorithms that can be concurrently used in the camera. Please test the actual performance before using in a project.  |

**Audio**

|                   |                                  |
|-------------------|----------------------------------|
| Audio Type        | 2-way, Mic-in, Line-in, Line-out |
| Audio Compression | 8 kHz, Mono, G.711               |

**Network**

|                            |   |
|----------------------------|---|
| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, ARP, Bonjour, UPnP, QoS, SNMP, IEEE 802.1X |
| Ethernet Port              | 1 x RJ-45 connector   |
| Security                   | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control                      |

**Video Analytics**

|                      |          |
|----------------------|----------|
| Analysis Source Type | Video    |
| Metadata Accuracy    | Standard |

**Event**

|                |   |
|----------------|---|
| Event Trigger  | Video motion detection, External device through digital input, Sound detection, Tampering detection, Intelligent event detection  |
| Event Response | Notify control center, Change camera settings, Command other devices, E-mail notification with snapshots, Play the audio file, Push notification to mobile device, Save video to local storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output |

**Integration**

|                          |   |
|--------------------------|---|
| Unified Solution         | Fully compatible with ACTi software             |
| Software Development Kit | Yes   |
| GPS Position             | Manual setting                                  |
| ONVIF Compliant          | Yes, Profile S, Profile G, Profile T, Profile Q |
| Web Browser              | IE 11 or newer                                  |

**Interface**

|                      |  |
|----------------------|--|
| Audio Interface      | 1/1, Terminal block  |
| Local Storage        | MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB) |
| Digital Input/Output | 1/1 (Terminal block)   |

**General**

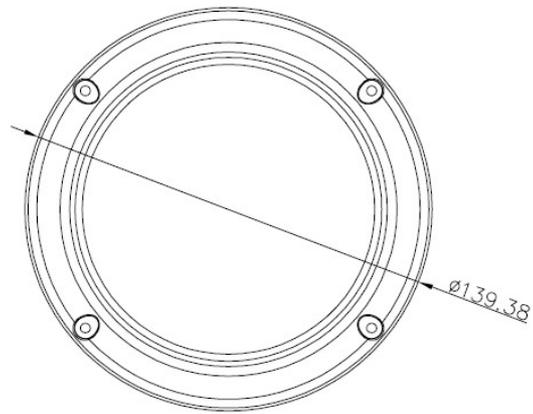
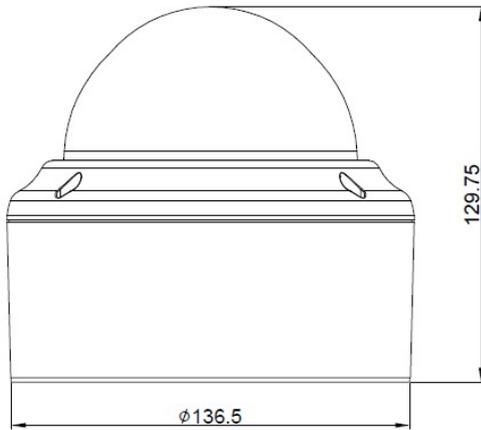
|                       |  |
|-----------------------|--|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)  |
| Power Consumption     | 12.95 W (PoE)  |
| Weight                | 1255g (2.767lb)  |
| Dimensions            | (Ø x H): 139.38mm x 129.75mm (5.48" x 5.10")   |
| Environmental Casing  | Weatherproof (IP66), Vandal proof (IK10)   |
| Mount Type            | Surface, Pendant, Wall Mount   |
| Starting Temperature  | -20°C ~ 50°C (-4°F ~ 122°F)  |
| Operating Temperature | -40°C ~ 50°C (-40°F ~ 122°F)   |
| Operating Humidity    | 20% - 80% RH   |
| Approvals             | CE Class A, FCC Class A, IP66, IK10  |
| Warranty              | 3 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 Input and Output Connector
  - DC 12V Power Input
  - Digital Input / Output
  - Audio Input / Output
  - Analog Video Output
- 2 Reset Button
- 3 Memory Card Slot
- 4 Ethernet Port

## ► Dimension Diagram



Unit: mm [inch]

## ▶ Related Products

### Mounting Accessories - Camera Mount

|           |   |   |
|-----------|---|---|
| PMAX-0104 |    | Extension Tube  |
| PMAX-0113 |    | Pendant Mount (for A8x, except A88)   |
| PMAX-0114 |    | Mount Kit for Dome Cameras (for A8x, except A88)  |
| PMAX-0302 |    | Gooseneck with Bracket  |
| PMAX-0321 |    | Heavy Duty Wall Mount for Outdoor Domes (for A8x, except A88)   |
| PMAX-0333 |    | Wall Mount (for A8x, except A88)  |
| PMAX-0402 |    | Corner Mount  |
| PMAX-0511 |   | Pole Mount (for A8x), supports 5.25" to 8.5" Poles  |
| PMAX-0702 |  | Junction Box for PTZ and Dome Cameras   |
| PMAX-0704 |  | Junction Box (for A4x, B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAx-0203~PMAx-0205) |
| PMAX-0810 |  | Mount Kit and Converter Ring, 1.5" NPT for Third-Party Mounting Accessories (for A8x, except A88)       |
| PMAX-0813 |  | Gang Box Converter (for A8x, except A88), supports Two-Gang Boxes                                       |
| PMAX-1027 |  | Flush Mount (for A61, A62, A8x, except A88)   |

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

### Dome Covers - Transparent Dome Cover

|            |   |   |
|------------|---|---|
| R701-70009 |  | Transparent Dome Cover Only (for A8x-10A) |
|------------|---|---|

### Audio Devices - Microphone

|           |   |   |
|-----------|---|---|
| PMIC-0100 |  | Active Microphone Omnidirectional for all Cameras with Line-in Audio  |
| PMIC-0201 |  | Passive Microphone Omnidirectional for all Cameras with Mic-In Audio using Cable Wire or Terminal Connector, 2m cable |