# A87

## 5MP Outdoor Zoom Dome with D/N, Adaptive IR, Advanced WDR, SLLS, 4.3x Zoom Lens

- 5 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 4.3x Zoom Lens with f2.8-12mm/F1.4-F2.8, DC iris, Auto focus (for installation)
- Advanced WDR
- H.265 Compression
- Event trigger, response and notification

## ▶ Specifications

### Device

| | |
|---|---|
| Product Type | Zoom Dome |
| Maximum Resolution | 5MP |
| Application Environment | Outdoor |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.9 " |
| Effective Pixels | 3096(H) X 2202(V) (6.82 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| Minimum Illumination | Color: 0.15 lux; B/W: 0 lux (IR LED on) |
| 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 |
| Horizontal Resolution (TV Lines) | 1300 TVL |

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| S/N Ratio | 56 dB |
|---|---|

## Lens

| Focal Length | Zoom, f2.8-12mm |
|---|---|
| Aperture | F1.4-F2.8 |
| Zoom Ratio | 4.3x optical zoom |
| Zoom Application | Camera Installation |
| Iris | DC iris |
| Focus | Auto focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 71° - 25° |
| Viewing Angle Adjustment | Pan: ±135°, Tilt: 0°-90°, Rotation: ±90° |

## PTZ

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

## Video

| Compression | H.265, H.264 (Baseline/ Main/ High profile), MJPEG |
|---|---|
| Maximum Frame Rate vs. Resolution | 30 fps at 2592 x 1944 30 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 960 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 - 20Mbps (per stream) |
| Bit Rate Mode | Constant, Variable |
| Wide Dynamic Range | Advanced WDR (120 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 | 4 configurable regions |
| Text Overlay | Yes |
| On-Screen Graphics | Yes |
| Built-in Analytics | 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 (Corridor mode) |

## 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 |
| Ethernet Port | 1 x RJ-45 connector |
| Security | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login |

## Event

| | |
|---|---|
| Event Trigger | Video motion detection (3 regions), External device through digital input, Sound detection, Tampering detection, Video streams loss |
| Event Response | Notify control center, Change camera settings, Command other devices, E-mail notification with snapshots, Push notification to mobile device, Save video to local storage, Upload video or snapshot to FTP server, Activate external device through digital output |

## Integration

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

## Interface

| | |
|---|---|
| Audio Interface | Terminal block |
| Analog Video Output | 1 x CVBS, Terminal block, for installation only |
| Local Storage | MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB) |
| Digital Input/Output | 1/1 (Terminal block), DC Output Voltage: 5V |
| Operating Button | Reset Button |

## General

| | |
|---|---|
| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
| Power Consumption | 10 W (PoE, IR on), 8 W (DC, IR on) |
| Weight | 858g (1.892lb) |
| 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, EAC, CB, UL Listed (UL 62368-1), IP66, NEMA 4X, IK10 |
| Real-time Clock (RTC) | Yes |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

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## ▶ Photo Indication
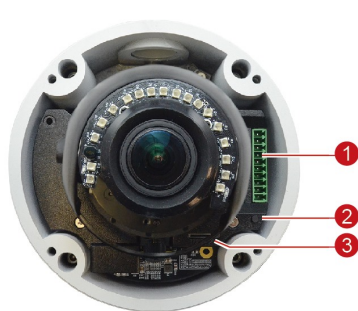


**1** Input and Output Connector
  • DC 12V Power Input
  • Digital Input / Output
  • Audio Input / Output
  • Analog Video Output

**2** Reset Button

**3** Memory Card Slot

**4** Ethernet Port

## ▶ Dimension Diagram



129.75

ø136.5

ø139.38

Unit: mm [inch]

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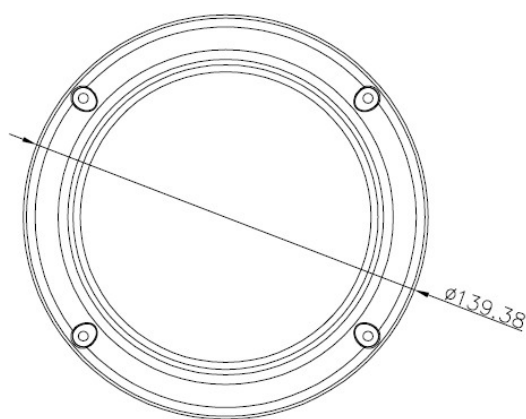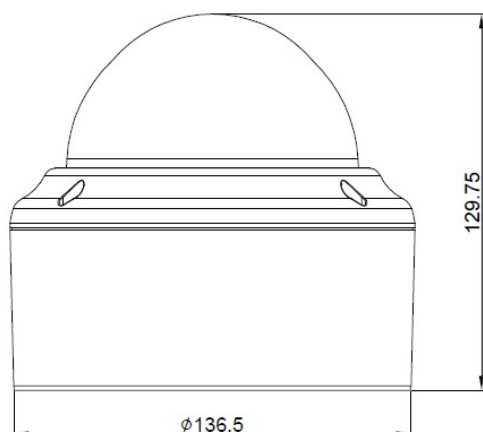
## ▶ Related Products

### Mounting Accessories - Camera Mount

| | | |
|---|---|---|
| PMAX-0102 | | Straight Tube |
| PMAX-0103 | | Straight Tube with Bracket |
| 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-0303 | | Gooseneck |
| PMAX-0321 | | Heavy Duty Wall Mount for Outdoor Domes (for A8x, Z83, Z84, except A88) |
| 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-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-0807 | | Gangbox Converter (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0321), supports Two-Gang Boxes |
| PMAX-0808 | | Converter Ring, 1.5" NPT for Third-Party Mounting Accessories |
| 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 |

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| 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 for more information.

## Dome Covers - Transparent Dome Cover

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

## Network & Storage Peripherals - Data Switch

| PPSW-0105 | | PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W) |
|---|---|---|

## 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 |

## Other Accessories - Camera Part

| R707-90004 | | DIO / AIO connector for A82 |
|---|---|---|

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