# A86

## 5MP 5x Outdoor Zoom Dome with IR LED 30m, WDR 125dB




- 5 Megapixel, 5x, Zoom Dome
- IR LED 30m, Extreme WDR (125 dB)
- Color Min. Illumination 0.018 lux
- Weatherproof (IP66), Vandal proof (IK10)

## Specifications

### Product Profile

| | |
|---|---|
| Product Type | Zoom Dome |
| Application Environment | Outdoor |
| Maximum Resolution | 5MP |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 2592(H) X 1944(V) (5.04 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| Minimum Illumination | Color: 0.018 lux (30 IRE); B/W: 0 lux (IR LED on) |
| Mechanical IR Cut Filter | Yes |
| IR LED | Adaptive IR LED |
| IR Working Distance | 30m |
| Color to B/W Switch | ISP based switch, configurable |
| Electronic Shutter | 1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode) |
| Horizontal Resolution (TV Lines) | 1600 TVL |

| | |
|---|---|
| S/N Ratio | 75 dB |

## Lens

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|---|---|
| Focal Length | Zoom, f2.7-13.5mm |
| Aperture | F1.4-F3.3 |
| Zoom Ratio | 5x optical zoom |
| Zoom Application | Camera Installation |
| Iris | Adaptive iris |
| Focus | Auto focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 96.8° - 30.7° |
| Vertical Viewing Angle | 70.4° - 23.1° |
| Viewing Angle Adjustment | Pan: 360°, Tilt: 90°, Rotation: ±90° |

## Video

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|---|---|
| Compression | H.265 Adaptive Stream, H.264 (Main profile), MJPEG |
| Maximum Frame Rate vs. Resolution | 30 fps at 2560 x 1920 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 |
| Bit Rate Mode | Constant, Variable |
| Multi-Streaming | Simultaneous triple streams based on configurations of video resolution, compression format, and frame rate |
| Digital Noise Reduction | 2D + 3D DNR |
| Wide Dynamic Range | Extreme WDR (125 dB) |
| Image Orientation | Flip, Mirror, Rotation (Corridor mode) |
| Image Enhancement | White Balance, Brightness, Backlight compensation (BLC), Contrast, Saturation, Sharpness, Automatic gain control (AGC), Flickerless, Digital Image Stabilizer (DIS, EIS), Defogging |
| Privacy Mask | 4 configurable regions |
| Text Overlay | Yes |
| On-Screen Graphics (Picture Overlay) | 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, (Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to maximize analytical accuracy) |

## Audio

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

## Network

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|---|---|
| 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 Ethernet (10/100 Base-T), RJ-45 pigtail connector |
| Security | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login |

## Video Analytics

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|---|---|
| Analysis Source Type | Video |

## Event

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|---|---|
| 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, Play the audio file, Push notification to mobile device, Save video to storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output |

## System

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|---|---|
| System Monitor | CPU loading, memory usage and network statistics via API |
| Watchdog | Support |

## Integration

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|---|---|
| Unified Solution | Fully compatible with ACTi software |
| Edge Recording | Support (integration with NVR by ONVIF Profile G or proprietary protocol)** |
| ONVIF Compliant | Yes, Profile G, Profile T, Profile Q |
| Web Browser | IE 11, Google Chrome*, Microsoft Edge*, Apple Safari* |
| Auto Firmware Upgrade | Yes |

## Interface

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|---|---|
| Digital Input/Output | 1/1 (Terminal block), DC Output Voltage: 5V |
| Operating Button | Reset Button |

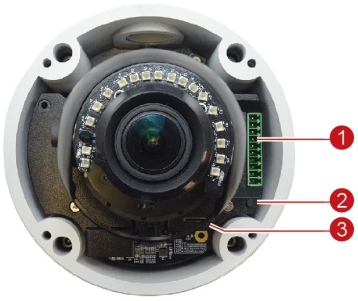
## General

| | |
|---|---|
| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
| Power Consumption | 12.95 W (PoE) |
| Dimensions | (Ø x H): 139.38mm x 129.75mm (5.48" x 5.10") |
| Environmental Casing | Weatherproof (IP66), Vandal proof (IK10) |
| Corrosion Protection | Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years. |
| 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, non-condensing |
| Approvals | CE Class A, FCC Class A, EAC, IP66, IK10 |

| | |
|---|---|
| Real-time Clock (RTC) | Yes |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

* cross-browser compatibility: Motion Detection and Intelligent Video configurations are not available. ** Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

## Photo Indication

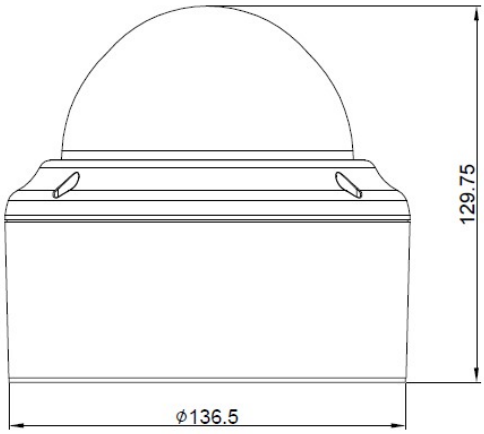


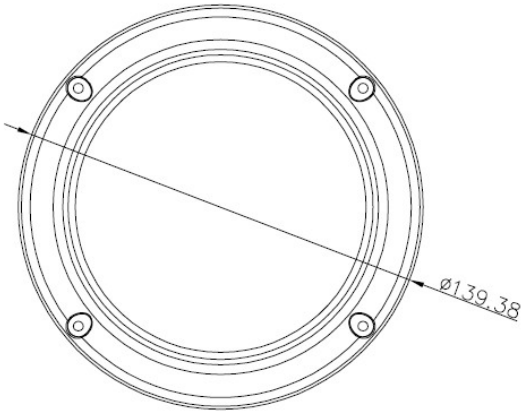




1. Input and Output Connector
   - DC 12V Power Input
   - Digital Input / Output
   - Audio Input / Output
   - Analog Video Output
2. Reset Button
3. Memory Card Slot
4. Ethernet Port

## Dimension Diagram




Unit: mm [inch]

# Related Products

## Mounting Accessories - Camera Mount

| | | |
|---|---|---|
| PMAX-0102 |  | Straight Tube |
| PMAX-0103 |  | Straight Tube with Bracket |
| PMAX-0104 |  | Extension Tube |
| PMAX-0113 |  | Pendant Mount (for A8x, except A88) |
| PMAX-0302 |  | Gooseneck with Bracket |
| PMAX-0303 |  | Gooseneck |
| 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-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 |
| PMAX-1027 |  | Flush Mount (for A61, A62, A8x, except A88) |

| | | |
|---|---|---|
| PMAX-1405 |  | Mount Kit (for A826) |

**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) |

## Audio Devices - Microphone

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|---|---|---|
| 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 - Accessory Part

| | | |
|---|---|---|
| R707-70001 |  | Conduit Gland for Dome Cameras |