

E39

2MP Bullet with D/N, Adaptive IR, Extreme WDR, ELLS, Fixed Lens



- 2 Megapixel
- Day & Night with Extreme Low Light Sensitivity and Adaptive IR LED
- Fixed Lens with f3.6mm/F1.85
- Extreme WDR
- Wide Angle
- Built-in Analytics
- Event trigger, response and notification

► Specifications

Device

| | |
|--------------------------|---|
| Product Type | Bullet |
| Maximum Resolution | 2MP |
| Application Environment | Outdoor |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 1945(H) X 1097(V) (2.13 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Extreme |
| Minimum Illumination | Color: 0.1 lux at F1.85 (30 IRE, 2400 K); B/W: 0 lux at F1.85 (IR LED on) |
| Color to B/W Switch | ISP based switch, configurable |
| Mechanical IR Cut Filter | Yes |
| IR Sensitivity Range | 700-1100nm |
| IR LED | Adaptive IR LED x 8 (850 nm) |
| IR Working Distance | 30m |
| Electronic Shutter | 1/5-1/2000 second (manual mode); 1/5-1/10000 second (auto mode) |

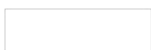
| | |
|----------------------------------|----------|
| Horizontal Resolution (TV Lines) | 1100 TVL |
| S/N Ratio | 56 dB |

Lens

| | |
|--------------------------|---------------------|
| Focal Length | Fixed focal, f3.6mm |
| Aperture | F1.85 |
| Iris | Fixed iris |
| Focus | Fixed focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 90.6° |
| Vertical Viewing Angle | 50.5° |

Video

| | |
|--------------------------------------|---|
| Compression | H.264 (Baseline/ Main/ High profile), MJPEG |
| Maximum Frame Rate vs. Resolution | 60 fps at 1920 x 1080 60 fps at 1280 x 720 30 fps at 640 x 480 30 fps at 320 x 240 |
| High Frame Mode | Support |
| Multi-Streaming | Simultaneous triple streams based on configurations of video resolution, compression format, and frame rate |
| Bit Rate | 128Kbps - 12Mbps (per stream) |
| Bit Rate Mode | Constant, Variable |
| Wide Dynamic Range | Extreme WDR (145 dB) |
| Image Enhancement | White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Digital Image Stabilizer (DIS, EIS), Defogging |
| Digital Noise Reduction | 2D + 3D DNR |
| Privacy Mask | 4 configurable regions |
| Text Overlay | Yes |
| On-Screen Graphics (Picture Overlay) | Yes |
| Built-in Analytics | Basic Face Detection, Object Based Motion Detection, Tampering Detection, Shock Detection, Object Line Crossing Detection, Object Enter Area Detection, Missing Object Detection, Unattended Object Detection, Object Loitering 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 | Mirror, Flip, Rotation (Corridor mode) |
| 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, Built-in Microphone, Mic-in, Line-in, Line-out |
| Audio Compression | 8 kHz, 16 bit encoding, Mono, PCM, 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 pigtail connector |
| Security | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control, Standard IoT Security (anti-hacking, anti-malware) |

Video Analytics

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

Event

| | |
|----------------|---|
| Event Trigger | Video motion detection (10 included and excluded polygonal regions), External device through digital input, Sound 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 |

System

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

Integration

| | |
|-----------------------|---|
| Unified Solution | Fully compatible with ACTi software |
| GPS Position | Manual setting |
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T, Profile Q, Profile M* (To be available through future firmware upgrade) |
| Web Browser | IE 11, Google Chrome, Microsoft Edge, Apple Safari |
| Auto Firmware Upgrade | Yes |

Interface

| | |
|----------------------|---|
| Audio Interface | Built-in microphone, Cable with 3.5mm Phone Jack |
| Local Storage | MicroSDHC, MicroSDXC memory card slot (card not included) |
| Digital Input/Output | 1/1 (Cable with Terminal block) |

General

| | |
|-------------------|---------------------------------------|
| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
| Power Consumption | 9 W (PoE), 8 W (DC) |
| Weight | 982g (2.165lb) |
| Dimensions | (Ø x L): 80mm x 236mm (3.15" x 9.29") |



| | |
|-----------------------|--|
| Environmental Casing | Weatherproof (IP68), Vandal proof metal casing (IK10), Built-in dehumidifier |
| Bundled Accessories | Integrated bracket |
| Mount Type | Wall Mount, Ceiling Bracket, Pole Mount |
| Dehumidifier | Yes |
| Starting Temperature | -40°C ~ 50°C (-40°F ~ 122°F) |
| Operating Temperature | -40°C ~ 50°C (-40°F ~ 122°F) |
| Operating Humidity | 10% - 85% RH |
| Approvals | CE Class B, FCC Class B, EAC, IP66, NEMA 4X, IK10 (metal casing), UL (for optional PoE injector and power adapter) |
| Real-time Clock (RTC) | Yes |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

** Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

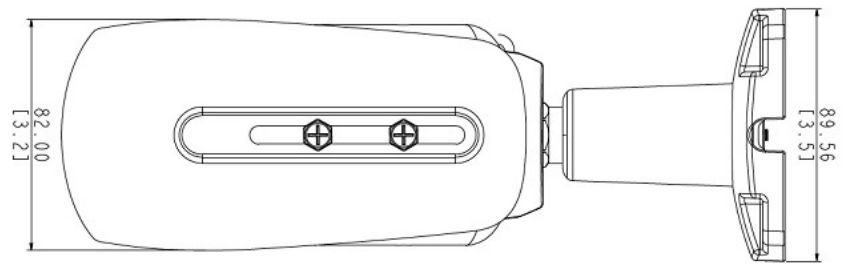
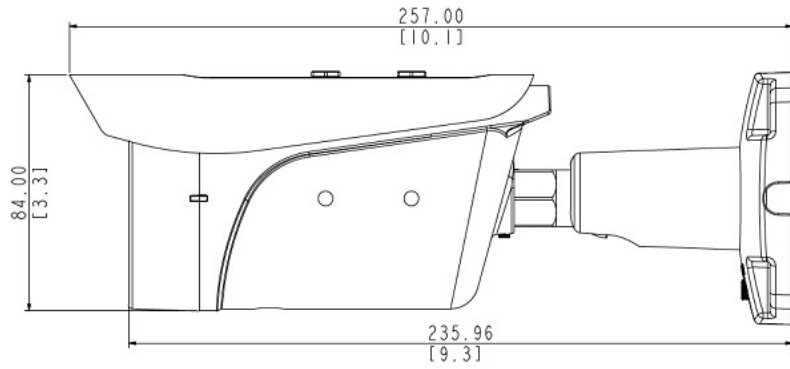
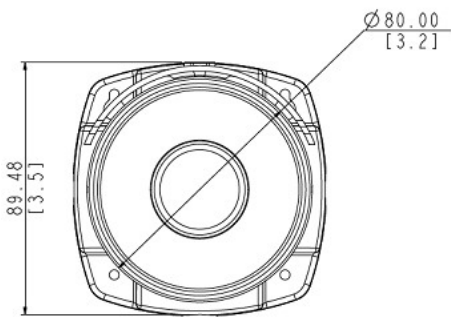


► Photo Indication



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




► Dimension Diagram



Unit: mm [inch]


▶ Related Products

Mounting Accessories - Camera Mount




| | | |
|-----------|---|--|
| PMAX-0512 |  | Pole Mount (for E39, PMAX-0706), supports 3.25" to 7.0" Poles |
| PMAX-0706 |  | Junction Box (for A3x, A4x, E39, E41x, PMAX-0805) |
| PMAX-0806 |  | Gang Box Converter (for B4x, E39, E44, E45, E46, E44A, E45A, E46A), supports 4" Round and 4" Octagon Boxes |

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.


Power Supply Accessories - Power Adapter

| | | |
|-----------|---|--|
| PPBX-0011 |  | Power Adapter AC 100~240V, with universal connectors for all DC12V powered devices |
|-----------|---|--|

Network & Storage Peripherals - Data Switch

| | | |
|-----------|---|--|
| PPSW-0102 |  | PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W) |
| PPSW-1101 |  | PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W) |
| PPSW-3100 |  | PLANET FGSW-1816HPS 16-Port 802.3at PoE Switch (PoE Budget 220W) |



Extenders - PoE Extender

| | | |
|-----------|---|--|
| PPEX-0100 |  | Veracity OUTREACH Max Power over Ethernet (PoE) Extender |
|-----------|---|--|

Extenders - PoE over Coaxial Extender Kit

| | | |
|-----------|---|---|
| PPOC-0100 |  | Planet LRP-101C-KIT Power over Coax Adapter Kit |
|-----------|---|---|

Illuminators - IR LED Illuminator

| | | |
|-----------|---|--|
| PLED-0200 |  | SPINLUX (SL-A2IRXX10-24CL) IR Illuminator 10° Angle with 120 m approx. range |
| PLED-0201 |  | SPINLUX (SL-A2IRXX25-24CL) IR Illuminator 25° Angle with 50 m approx. range |

