# E417

**2MP with D/N, Adaptive IR, Extreme WDR, SLLS, 10x Zoom Lens**

- 2 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 10x Zoom Lens with f4.9-49/F2.8-F3.5, Auto focus (for installation)
- Extreme WDR
- Built-in Analytics
- Event trigger, response and notification

## ▶ Specifications

### Device

| | |
|---|---|
| Product Type | Zoom Bullet |
| Maximum Resolution | 2MP |
| Application Environment | Outdoor |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 1944(H) X 1224(V) (2.38 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| Minimum Illumination | Color: 0.01 lux at F2.8 (30 IRE, 2400K); B/W: 0 lux at F2.8 (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 18 (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 | 59 dB |
|---|---|

## Lens

| Focal Length | Zoom, f4.9-49mm |
|---|---|
| Aperture | F2.8-F3.5 |
| Zoom Ratio | 10x optical |
| Zoom Speed | 3.3 second (wide to tele) |
| Zoom Application | Camera Installation |
| Iris | Adaptive iris |
| Focus | Auto focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 60° - 7.3° |
| Vertical Viewing Angle | 35.5° - 4.2° |

## PTZ

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

## 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 |
| 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 (145 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 | 20 configurable 3D privacy masks |
| Text Overlay | Yes |
| Built-in Analytics | Basic Face Detection, Object Based Motion Detection, Tampering 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 | 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, Line-in, Line-out |
|---|---|

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| 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, Ethernet (10/100 Base-T), RJ-45 pigtail 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 (10 included and excluded polygons 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 |

## Integration

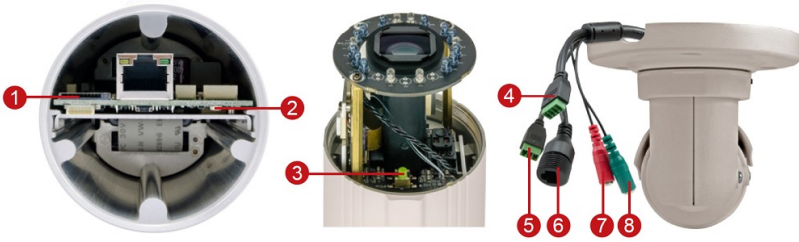| Unified Solution | Fully compatible with ACTi software |
|---|---|
| Software Development Kit | Yes |
| GPS Position | Manual setting |
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T, Profile Q |
| GB28181 Compliant | Yes |
| Web Browser | IE 11 |
| Auto Firmware Upgrade | Yes |

## Interface

| Audio Interface | 3.5mm Phone Jack |
|---|---|
| Local Storage | MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB) |
| Digital Input/Output | 1/1 |

## General

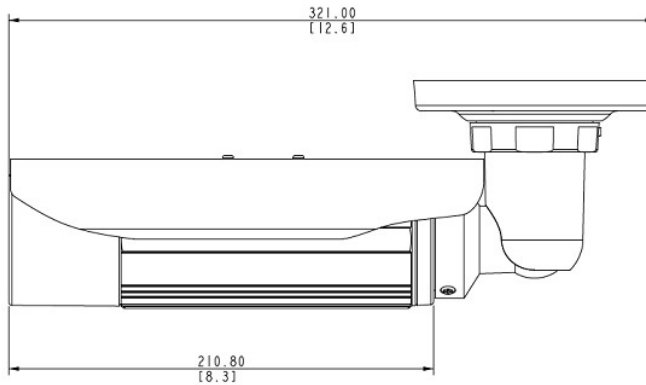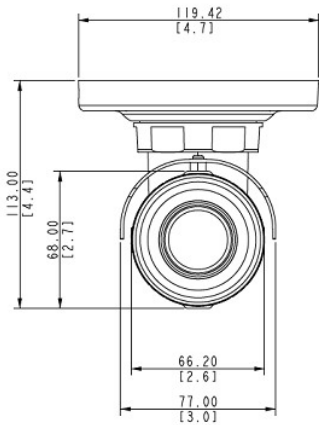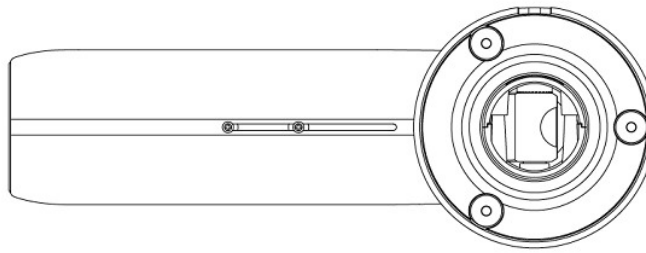| Power Source | DC 12V (adapter not included), PoE Class 3 (IEEE802.3af) |
|---|---|
| Power Consumption | 9 W (PoE) |
| Weight | 1120g (2.469lb) |
| Dimensions | (W x H x D): 119.42mm x 113mm x 291mm (4.7" x 4.45" x 11.46") |
| Environmental Casing | Weatherproof (IP68), Vandal proof metal casing (IK10) |
| Bundled Accessories | Integrated bracket |
| Mount Type | Gang Box, Integrated Bracket, Pole Mount |
| Heater | Yes |
| Starting Temperature | -20°C ~ 50°C (-4°F ~ 122°F) within 30 minutes |
| Operating Temperature | -30°C ~ 50°C (-22°F ~ 122°F) |

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| Operating Humidity | 10% - 85% RH |
| --- | --- |
| Approvals | CE, FCC, IP68, NEMA 4X, IK10 (metal casing), UL (for optional PoE injector) |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

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## ▶ Photo Indication



1 Memory Card Slot

2 Power LED

3 Reset Button

4 Digital Input/Output

5 DC 12V Power Input

6 Ethernet Port

7 Audio-In

8 Audio-Out

## ▶ Dimension Diagram



119.42 [4.7]

113.00 [4.4]

68.00 [2.7]

66.20 [2.6]

77.00 [3.0]

321.00 [12.6]

210.80 [8.3]

Unit: mm [inch]

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# ▶ Related Products

## Mounting Accessories - Camera Mount

| PMAX-0504 | | Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0330), supports 3.25" to 7.0" 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-0508 | | Pole Mount (for PMAX-0203, PMAX-0204, PMAX-0205, PMAX-0206, PMAX-0704), supports 3" to 9" Poles |
| PMAX-0512 | | Pole Mount (for E39, PMAX-0706), supports 3.25" to 7.0" Poles |
| PMAX-0704 | | Junction Box (for A4x, B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0203~PMAX-0205) |
| 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 |
| R706-00006 | | Back Bracket with Pre-installed (For B41x,B43,I42,I48,E413, E415, E417) |

**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-0100 | | PLANET FGSD-910HP 8-Port 802.3at PoE Switch (PoE Budget 120W) |
|---|---|---|
| PPSW-0101 | | PLANET GS-4210-8P2T2S 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 240W) |
| 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-2101 | | 4-Port 802.3at PoE Switch (PoE Budget 62W) |
| 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 |
|---|---|---|

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## Extenders - PoE over Coaxial Extender Kit

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

## Audio Devices - Microphone

| PMIC-0100 | | Active Microphone Omnidirectional for all Cameras with Line-in Audio |
| PMIC-0200 | | Passive Microphone Omnidirectional for all Cameras with Mic-in Audio using 3.5mm Phone Jack |

## 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 |
| PLED-0202 | | SPINLUX (SL-A2IRXX35-24CL) IR Illuminator 35° Angle with 25 m approx. range |

## Product Demo - Camera Demo Kit

| PCDK-0001 | | Camera Demo Kit Rack Box (350 x 550 x 140 mm) for all cameras except Mini Domes |

## Installation Support - Camera Installation Kit

| PMON-1001-010 | | Camera Installation Kit for use with iOS Device with belt bag, battery and charger (US, AC 110~240V) |
| PMON-1001-011 | | Camera Installation Kit for use with iOS Device with belt bag, battery and charger (Europe, AC 110~240V) |
| PMON-2000 | | Camera Installation Kit |

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