# B85

**2MP with D/N, Adaptive IR, Basic WDR, SLLS, 3x Zoom Lens**

- 2 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 3x Zoom Lens with f3.0-9mm/F1.2-F2.1, DC iris, Auto focus
- Basic WDR
- Super wide angle
- Event trigger, response and notification

## ▶ Specifications

### Device

| | |
|---|---|
| Product Type | Zoom Dome |
| Maximum Resolution | 2MP |
| Application Environment | Outdoor |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 1984(H) X 1225(V) (2.43 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| Minimum Illumination | Color: 0.003 lux at F1.2; B/W: 0 lux (IR LED on) |
| Color to B/W Switch | ISP based switch, configurable |
| Mechanical IR Cut Filter | Yes |
| IR Sensitivity Range | 700-1100nm |
| IR LED | Adaptive IR LED x 10 (850 nm) |
| IR Working Distance | 40m |
| Electronic Shutter | 1/5-1/2000 second (manual mode); 1/5-1/10000 second (auto mode) |

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| Horizontal Resolution (TV Lines) | 1450 TVL |
|---|---|
| S/N Ratio | 52 dB |

## Lens

| Focal Length | Zoom, f3.0-9mm |
|---|---|
| Aperture | F1.2-F2.1 |
| Zoom Ratio | 3x optical zoom |
| Zoom Application | Camera Installation, Auto Zoom by Event, Manual Operation |
| Iris | DC iris |
| Focus | Auto focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 103.6° - 36.2° |
| Vertical Viewing Angle | 56.8° - 20.2° |
| Viewing Angle Adjustment | Pan: 0°-350°, Tilt: 5°-170°, Rotation: 0°-350° |

## 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 | 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 640 x 480 15 fps at 320 x 240 |
| Multi-Streaming | Simultaneous dual streams based on two configurations |
| Bit Rate | 28Kbps - 6Mbps (per stream) |
| Bit Rate Mode | Constant, Variable |
| Wide Dynamic Range | Basic WDR (75 dB) |
| Image Enhancement | White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Flickerless |
| Digital Noise Reduction | DNR |
| Privacy Mask | 4 configurable regions for each of 17 preset points |
| Text Overlay | Yes |
| On-Screen Graphics | Yes |
| 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 |

## 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 x RJ-45 connector |
| Security | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control |

## Event

| Event Trigger | Video motion detection (3 regions), External device through digital input, Sound detection, |
|---|---|
| Event Response | Notify control center, Go to Zoom preset point or preset tour, 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 or snapshot to FTP server, Upload video to NVR server, Activate external device through digital output |

## System

| Watchdog | Support |
|---|---|

## Integration

| Unified Solution | Fully compatible with ACTi software |
|---|---|
| Software Development Kit | Yes |
| GPS Position | Manual setting |
| Edge Recording | Support (integration with NVR by ONVIF Profile G or proprietary protocol)* |
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T, Profile Q |
| GB28181 Compliant | Yes |
| Web Browser | IE 11 |
| Auto Firmware Upgrade | Yes |

## Interface

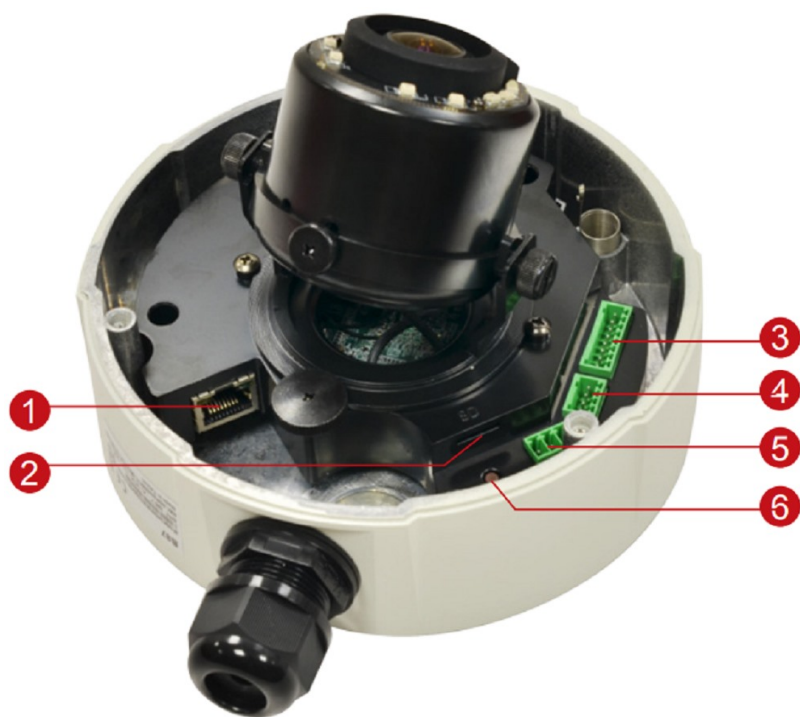| Audio Interface | Terminal block |
|---|---|
| Local Storage | MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only) |
| Digital Input/Output | 2/2 |
| Operating Button | Reset Button |

## General

| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
|---|---|
| Power Consumption | 8.28 W (PoE) |
| Weight | 1291g (2.846lb) |
| Dimensions | (Ø x H): 152mm x 114.5mm (6.0" x 4.5") |
| Environmental Casing | Weatherproof (IP67), Vandal proof (IK10) |
| Mount Type | Surface, Gang Box, Flush, Pendant, Converter for NPT Standard Mounts, Wall Mount, Pole Mount, Corner Mount |

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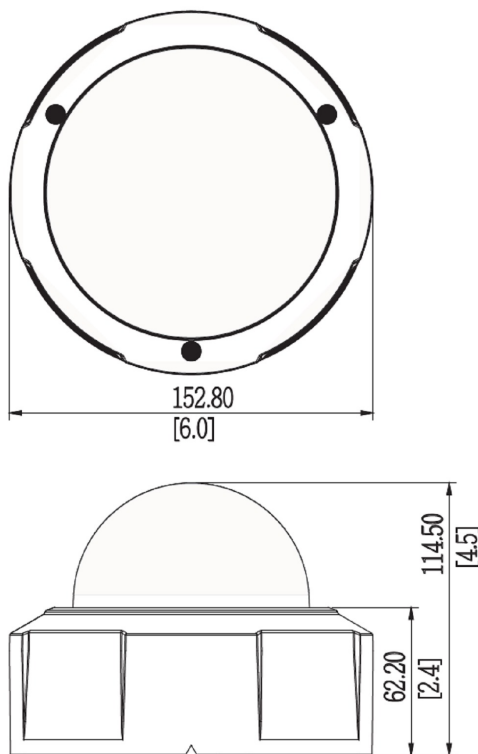| | |
|---|---|
| Heater | Yes |
| Starting Temperature | -40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes |
| Operating Temperature | -40°C ~ 50°C (-40°F ~ 122°F) |
| Operating Humidity | 10% - 85% RH |
| Approvals | CE Class B, FCC Class B, EAC, CB, IP67, IK10, NEMA 4X, UL Listed (UL 60950-1) |
| Real-time 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.

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## ▶ Photo Indication



1. Ethernet Port
2. Memory Card Slot
3. Digital Input/Output
4. Audio Input / Output
5. DC 12V Power Input
6. Reset Button

## ▶ Dimension Diagram



152.80 [6.0]

114.50 [4.5]

62.20 [2.4]

Unit: mm [inch]

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# ▶ Related Products

## Mounting Accessories - Camera Mount

| | | |
|---|---|---|
| PMAX-0101 | | Mount Kit for all Dome Cameras (except Mini Domes) |
| PMAX-0102 | | Straight Tube |
| PMAX-0103 | | Straight Tube with Bracket |
| PMAX-0104 | | Extension Tube |
| PMAX-0302 | | Gooseneck with Bracket |
| PMAX-0303 | | Gooseneck |
| PMAX-0314 | | Heavy Duty Wall Mount for Outdoor Domes (for B8x, B9x, D7x, D8x, E7x [except E78], E8x, I7x) |
| 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-0702 | | Junction Box for PTZ and Dome Cameras |
| PMAX-0804 | | Gang Box Converter for Outdoor Domes, supports Two-Gang Boxes |
| 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-1013 | | Flush Mount Kit (for B8x, B9x) |
| PMAX-1501 | | Cable Gland for Outdoor Domes (except Hemispheric Domes) |

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

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## Dome Covers - Transparent Dome Cover

**R701-70006** — Transparent Dome Cover Only (for B51, B52, B53, B61~B67, B81~B87, B94~B97, D61~D65, D6xA, D7x, D7xA, D8x, D8xA, E61~E69, E6xA, E71~E77, E7xA, E81~E88, E8xA, Q61, Q81)

## Dome Covers - Smoked Dome Cover

**PDCX-1109** — Vandal Proof Smoked Dome Cover for B6x, B8x, B9x

## Dome Covers - Dome Cover Shroud

**PDCX-1114** — Dome Cover Shroud for B6x, B8x, Q61, Q81

## Power Supply Accessories - Power Adapter

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

## Power Supply Accessories - PoE Injector

**PPOE-0000** — POE Injector IEEE 802.3af compliant, AC 100~240V, for US & Japan

**PPOE-0002** — PoE Injector IEEE 802.3af compliant, AC 100~240V, with universal connectors

## Network & Storage Peripherals - Data Switch

**PPSW-0100** — PLANET FGSD-910HP 8-Port 802.3at PoE Switch (PoE Budget 120W)

**PPSW-0102** — PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W)

**PPSW-0105** — PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed 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

## 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 |

## 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 |

## Other Accessories - Camera Part

| R707-90003 | | DIO / AIO connector for I73 |

## Other Accessories - Accessory Part

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

## Product Demo - Camera Demo Kit

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

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