

# E815

5MP with D/N, Adaptive IR, Basic WDR, 4.3x



- 5 Megapixel
- Day & Night with Adaptive IR LED
- 4.3x Zoom Lens, f3.1-13.3mm/F1.4-F4.0, P-Iris, Auto focus (for installation)
- Basic WDR (74dB)
- Event trigger, response and notification

## ► Specifications

### Device

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Product Type             | Zoom Dome                                                       |
| Maximum Resolution       | 5MP                                                             |
| Application Environment  | Outdoor                                                         |
| Image Sensor             | Progressive Scan CMOS                                           |
| Sensor Size              | 1/3.2 "                                                         |
| Effective Pixels         | 2592(H) X 1944(V) (5.04 MP)                                     |
| Day / Night              | Yes                                                             |
| Low Light Sensitivity    | Standard                                                        |
| Minimum Illumination     | Color: 0.1 lux at F1.4; 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      | 30m                                                             |
| Electronic Shutter       | 1/5-1/2000 second (manual mode); 1/5-1/10000 second (auto mode) |

|                                  |          |
|----------------------------------|----------|
| Horizontal Resolution (TV Lines) | 1350 TVL |
| S/N Ratio                        | 75 dB    |

## Lens

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Focal Length             | Zoom, f3.1-13.3mm                                    |
| Aperture                 | F1.4-F4.0                                            |
| Zoom Ratio               | 4.3x optical zoom                                    |
| Zoom Speed               | 3 second (wide to tele)                              |
| Zoom Application         | Camera Installation                                  |
| Iris                     | P-Iris                                               |
| Focus                    | Auto focus                                           |
| Lens Mount               | Board mount                                          |
| Horizontal Viewing Angle | 64.74° - 25.8°                                       |
| Vertical Viewing Angle   | 49.6° - 19.2°                                        |
| Viewing Angle Adjustment | Pan: -175°-175°, Tilt: 5°-175°, Rotation: -175°-175° |

## 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    | 15 fps at 2592 x 1944 15 fps at 2048 x 1536 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bit Rate Mode                        | Constant, Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Wide Dynamic Range                   | Basic WDR (74 dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Image Enhancement                    | White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Flickerless                                                                                                                                                                                                                                                                                                                                                                                             |
| Digital Noise Reduction              | 2D + 3D DNR                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Privacy Mask                         | 4 configurable regions                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| On-Screen Graphics (Picture Overlay) | 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 |
|------------|--------------------------|

|                   |                                          |
|-------------------|------------------------------------------|
| 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, Standard IoT Security (anti-hacking, anti-malware) |

## Event

|                |                                                                                                                                                                                                                                                                                                               |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event Trigger  | Video motion detection (3 regions), External device through digital input, Sound detection, Video streams loss, System log buffer overrun, Remove system log, Logon events (Login Failure, Login Success, Block an Account)                                                                                   |
| 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 or snapshot to FTP server, Upload video to NVR server, Activate external device through digital output |

## System

|                |                                                          |
|----------------|----------------------------------------------------------|
| System Monitor | CPU loading, memory usage and network statistics via API |
| System Log     | Support                                                  |
| 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                                                                        |
| Auto Firmware Upgrade    | Yes                                                                        |

## Interface

|                      |                |
|----------------------|----------------|
| Audio Interface      | Terminal block |
| Digital Input/Output | 2/2            |
| Operating Button     | Reset Button   |

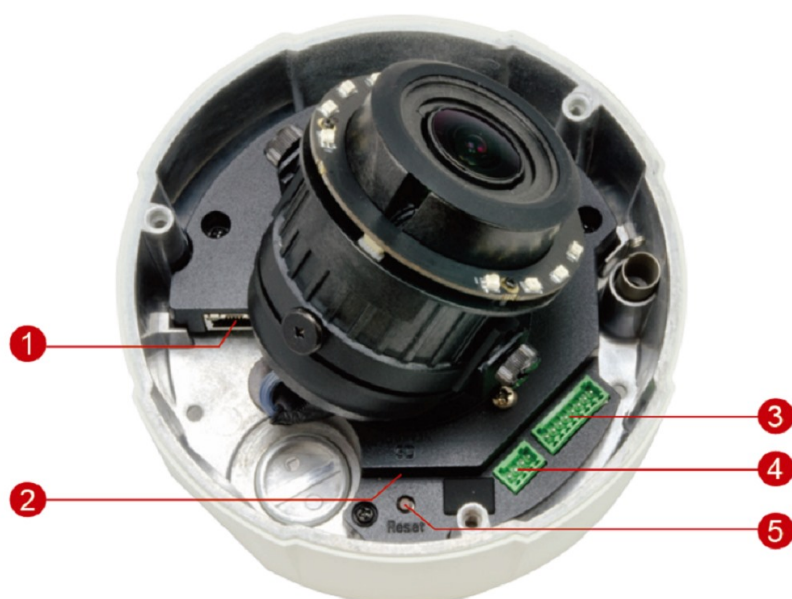
## General

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Power Source         | PoE Class 3 (IEEE802.3af)                                                                          |
| Power Consumption    | 7.28 W (PoE)                                                                                       |
| Weight               | 1404g (3.095lb)                                                                                    |
| Dimensions           | (Ø x H): 152.8mm x 131mm (6" x 5.2")                                                               |
| Environmental Casing | Weatherproof (IP67), Vandal proof (IK10)                                                           |
| Corrosion Protection | Optional for project request. Chassis corrosion resistance at the seashore approximately 10 years. |

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Mount Type            | Surface, Gang Box, Flush, Pendant, Converter for NPT Standard Mounts, Wall Mount, Pole Mount, Corner 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)                                                                                                           |
| Operating Humidity    | 10% - 85% RH, non-condensing                                                                                                           |
| Approvals             | CE Class B, FCC Class B, EAC, IP67, IK10, NEMA 4X, UL (for optional PoE injector)                                                      |
| Real-time Clock (RTC) | Yes                                                                                                                                    |
| Warranty              | 3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

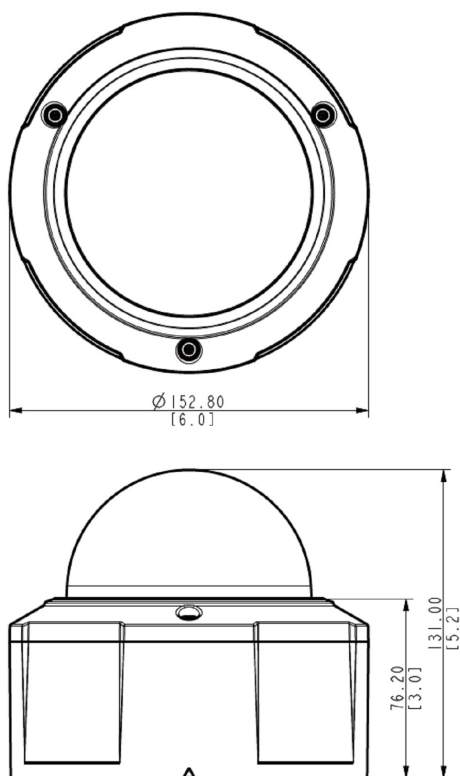
\* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

## ► Photo Indication



- ① Ethernet Port
- ② Memory Card Slot
- ③ Digital Input / Output
- ④ Audio Input / Output
- ⑤ Reset Button

## ► 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-0130 |                                                             | Mount Kit (for A711, A713)                                                                                                                   |
| PMAX-0302 |                                                             | Gooseneck with Bracket                                                                                                                       |
| PMAX-0303 |                                                             | Gooseneck                                                                                                                                    |
| PMAX-0354 |                                                             | Heavy Duty Wall Mount for A711, A713                                                                                                         |
| PMAX-0402 |                                                            | Corner Mount                                                                                                                                 |
| PMAX-0503 |                                   | Pole Mount (for PMA-0102, PMA-0312, PMA-0313, PMA-0314, PMA-0702, PMA-1106, PMA-1107), supports 5.25" to 8.5" Poles                          |
| PMAX-0505 |                                     | Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMA-0312, PMA-0313, PMA-0314, PMA-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 PMA-0102, PMA-0312, PMA-0313, PMA-0314, PMA-0321), supports Two-Gang Boxes                                            |
| PMAX-0808 |  | Converter Ring, 1.5" NPT for Third-Party Mounting Accessories                                                                                |
| PMAX-1015 |                                                           | Flush Mount Kit (for B71, E89, E815~E817, E822)                                                                                              |
| 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](http://www.acti.com/mountingselector) for more information.

### Dome Covers - Transparent Dome Cover

|            |                                                                                     |                                                                                                              |
|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| R701-70007 |  | Transparent Dome Cover Only (for B71, B9xA, B910, B914, E610, E616, E617, E618, E621, E89, E815, E816, E817) |
|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

## Network & Storage Peripherals - Data Switch

|           |                                                                                   |                                                                                    |
|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 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-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  |

## Other Accessories - Camera Part

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

## Other Accessories - Accessory Part

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