

# A818

## 6MP Outdoor Zoom Dome with D/N, IR, Extreme WDR, SLLS, 5x Zoom Lens



- 6 Megapixel
- Day & Night with Superior Low Light Sensitivity and IR LED
- Extreme WDR
- H.265 Compression
- Wide Angle
- Taiwan IoT Cybersecurity Certification Level 1 (TAICS, TCA)
- Event trigger, response and notification

### ► Specifications

#### Device

|                          |   |
|--------------------------|---|
| Product Type             | Zoom Dome                               |
| Maximum Resolution       | 6MP                                     |
| Application Environment  | Outdoor                                 |
| Image Sensor             | Progressive Scan CMOS                   |
| Sensor Size              | 1/2.7 "                                 |
| Day / Night              | Yes                                     |
| Low Light Sensitivity    | Superior                                |
| Minimum Illumination     | Color: 0.01 lux; B/W: 0 lux (IR LED on) |
| Color to B/W Switch      | ISP based switch, configurable          |
| Mechanical IR Cut Filter | Yes                                     |
| IR LED                   | IR LED x 2 (850 nm)                     |
| IR Working Distance      | 85m (1.0 lux)                           |
| Electronic Shutter       | 1/30-1/100000 second (auto mode)        |
| S/N Ratio                | 58 dB                                   |

## Lens

|                          |   |
|--------------------------|---|
| Focal Length             | Zoom, f2.7-13.5mm                             |
| Aperture                 | F1.6  |
| Zoom Ratio               | 5x optical zoom                               |
| Zoom Application         | Camera Installation                           |
| Focus                    | Auto focus                                    |
| Lens Mount               | Board mount                                   |
| Horizontal Viewing Angle | 82.2° - 28.7°                                 |
| Vertical Viewing Angle   | 54.5° - 19°                                   |
| Viewing Angle Adjustment | Pan: 0°-355°, Tilt: 0°-75°, Rotation: 0°-355° |

## Video

|                                   |   |
|-----------------------------------|---|
| Compression                       | H.265, H.264 (Main/ High profile), MJPEG  |
| Maximum Frame Rate vs. Resolution | 20 fps at 3072 x 2048 20 fps at 2592 x 1944 25 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 1920 x 1080 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 640 x 480   |
| Multi-Streaming                   | Simultaneous quad streams   |
| Bit Rate                          | 128Kbps - 12Mbps (per stream)   |
| Bit Rate Mode                     | Constant, Variable  |
| Wide Dynamic Range                | Extreme WDR (150 dB)  |
| Image Enhancement                 | White Balance, Backlight compensation (BLC), Brightness, Contrast, Sharpness, Automatic gain control  |
| Digital Noise Reduction           | 2D + 3D DNR   |
| Privacy Mask                      | 4 configurable regions  |
| Text Overlay                      | Yes   |
| Built-in Analytics                | Tampering Detection, Face Detection, Object Line Crossing Detection, Object Enter Area 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                 | Flip, Mirror, Rotation (Corridor mode)  |

## Audio

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

## Network

|                            |  |
|----------------------------|--|
| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, SFTP, IGMP, ICMP, 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, IEEE 802.1X network access control, Standard IoT Security (anti-hacking, anti-malware) |
|----------|--|

## Event

|                |   |
|----------------|---|
| Event Trigger  | Video motion detection (10 included and excluded polygonal regions), External device through digital input, Intelligent event detection, 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 local storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output |

## System

|            |         |
|------------|---------|
| System Log | Support |
| Watchdog   | Support |

## Integration

|                       |   |
|-----------------------|---|
| Unified Solution      | Fully compatible with ACTi software   |
| 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 M                             |
| GB28181 Compliant     | Yes   |
| Web Browser           | IE 11, Google Chrome*, Microsoft Edge*, Apple Safari*                       |
| Auto Firmware Upgrade | Yes   |

## Interface

|                      |   |
|----------------------|---|
| Audio Interface      | Terminal block  |
| Analog Video Output  | 1 x CVBS, BNC connector, for installation only  |
| Local Storage        | MicroSD, MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only) |
| Digital Input/Output | 1/1 (Terminal block)  |
| Operating Button     | Reset Button  |

## General

|                       |   |
|-----------------------|---|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)   |
| Power Consumption     | 12 W (PoE), 10 W (DC)   |
| Weight                | 1046g (2.306lb)   |
| Dimensions            | (Ø x H): 153.3mm x 111.6mm (6.04" x 4.39")  |
| Environmental Casing  | Weatherproof (IP68), Vandal proof (IK10)  |
| Operating Temperature | -30°C ~ 60°C (-22°F ~ 140°F)  |
| Operating Humidity    | 10% - 95% RH  |
| Approvals             | CE Class B, FCC Class B, EAC, BIS, IP68, NEMA 4X, IK10, Taiwan IoT Cybersecurity Certification Level 1 (TAICS, TCA) |
| Real-time Clock (RTC) | Yes   |

Warranty

3 Year(s). For extended warranty offering, see <http://www.acti.com/support/warranty>

\* cross-browser compatibility: Not available for H.265 video decoding \*\* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

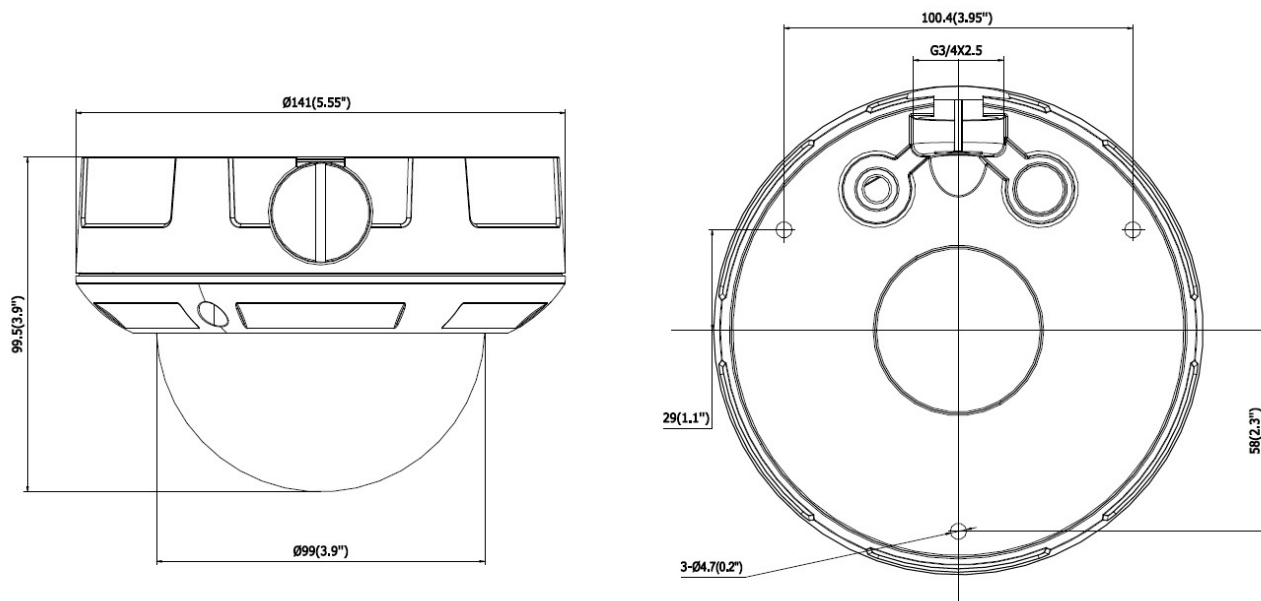


## ► Photo Indication



- ➊ Analog Video Output Connector
- ➋ DC 12V Input
- ➌ Audio Input / Output
- ➍ Digital Input / Output
- ➎ Ethernet Port
- ➏ Memory Card Slot
- ➐ 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-0127 |    | Mount Kit (for Z83, Z84, A811, A818)   |
| PMAX-0302 |    | Gooseneck with Bracket   |
| PMAX-0303 |    | Gooseneck  |
| PMAX-0321 |    | Heavy Duty Wall Mount for Outdoor Domes (for A8x, Z83, Z84, except A88)  |
| 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-0722 |  | Junction Box (for A811, A813, A818)  |
| 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-1030 |  | Flush Mount (for A811, A813, A818)   |

**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

|            |   |  |
|------------|---|--|
| R701-70010 |  | Transparent Dome Cover Only (for A811, A818) |
|------------|---|--|


Power Supply Accessories - Power Adapter

|           |   |   |
|-----------|---|---|
| PPBX-0012 |  | Power Adapter AC 100~240V (US), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x |
|-----------|---|---|


|           |   |   |
|-----------|---|---|
| PPBX-0013 |  | Power Adapter AC 100~240V (EU), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x |
|-----------|---|---|


|           |   |   |
|-----------|---|---|
| PPBX-0014 |  | Power Adapter AC 100~240V (UK), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x |
|-----------|---|---|

Power Supply Accessories - PoE Injector

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

Audio Devices - Microphone

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