

# Z812

## 2MP Outdoor Zoom Dome with D/N, Adaptive IR, Superior WDR, SLLS, 4.3x Zoom Lens



- 2 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 4.3x Zoom Lens with f2.8-12/F1.6, Auto focus (for installation)
- Superior WDR
- H.265 Compression
- Super wide angle
- Built-in Analytics
- Event trigger, response and notification

### ► Specifications

#### Device

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Product Type             | Zoom Dome                                                      |
| Maximum Resolution       | 2MP                                                            |
| Application Environment  | Outdoor                                                        |
| Image Sensor             | Progressive Scan CMOS                                          |
| Sensor Size              | 1/2.7 "                                                        |
| Day / Night              | Yes                                                            |
| Low Light Sensitivity    | Superior                                                       |
| Minimum Illumination     | Color: 0.003 lux at F1.6 (AGC on); B/W: 0 lux (IR LED on)      |
| Mechanical IR Cut Filter | Yes                                                            |
| IR LED                   | Adaptive IR LED x 2 (850 nm)                                   |
| IR Working Distance      | 40m                                                            |
| Electronic Shutter       | 1-1/100000 second (manual mode); 1-1/100000 second (auto mode) |
| S/N Ratio                | 75 dB                                                          |

#### Lens

|              |                 |
|--------------|-----------------|
| Focal Length | Zoom, f2.8-12mm |
|--------------|-----------------|

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Aperture                 | F1.6                                          |
| Zoom Ratio               | 4.3x optical zoom                             |
| Zoom Application         | Camera Installation                           |
| Iris                     | Fixed iris                                    |
| Focus                    | Auto focus                                    |
| Lens Mount               | Board mount                                   |
| Horizontal Viewing Angle | 103.6° - 33.5°                                |
| Vertical Viewing Angle   | 56° - 18.7°                                   |
| Viewing Angle Adjustment | Pan: 3°-360°, Tilt: 0°-70°, Rotation: 3°-360° |

## Video

|                                   |                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression                       | H.265, 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 720 x 576 30 fps at 640 x 360                                                                                      |
| Multi-Streaming                   | Simultaneous dual streams                                                                                                                                               |
| Wide Dynamic Range                | Superior WDR (120 dB)                                                                                                                                                   |
| Image Enhancement                 | White Balance, Backlight compensation (BLC), Brightness, Contrast, Sharpness, Automatic gain control, Defogging                                                         |
| Digital Noise Reduction           | 2D + 3D DNR                                                                                                                                                             |
| Privacy Mask                      | 4 configurable regions                                                                                                                                                  |
| Text Overlay                      | Yes                                                                                                                                                                     |
| Built-in Analytics                | People Detection, Vehicle Detection, Tampering Detection, Object Based Motion Detection, Object Line Crossing Detection, Intrusion Detection (Forbidden Area Detection) |
| Image Orientation                 | Flip, Mirror, Rotation (Corridor mode)                                                                                                                                  |

## Audio

|                   |                            |
|-------------------|----------------------------|
| Audio Type        | 1-way, Built-in Microphone |
| Audio Compression | G.711                      |

## Network

|                            |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Network Protocol & Service | IPv4, TCP, UDP, DHCP, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, SNMP, SSL, QoS, TLS 1.2 |
| Ethernet Port              | 1 x Ethernet (10/100 Base-T), RJ-45 pigtail connector                                                                               |
| Security                   | IP address filtering, HTTPS encryption, Password protected user level                                                               |

## Event

|                |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------|
| Event Trigger  | Video motion detection (4 regions), Sound detection, Intelligent event detection                           |
| Event Response | E-mail notification with snapshots, Upload snapshot to FTP server, Save video or snapshot to local storage |

## Integration

|                |                                                   |
|----------------|---------------------------------------------------|
| Edge Recording | Support (integration with NVR by ONVIF Profile G) |
|----------------|---------------------------------------------------|

|                 |                                               |
|-----------------|-----------------------------------------------|
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T          |
| Web Browser     | IE 11, Google Chrome, Microsoft Edge, Firefox |

### Interface

|                  |                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------|
| Local Storage    | MicroSD, MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only) |
| Operating Button | Reset Button                                                                                              |

### General

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Source          | DC 12V, PoE (IEEE802.3af)                                                                                                              |
| Power Consumption     | 8 W (PoE)                                                                                                                              |
| Dimensions            | (Ø x H): 128mm x 100mm (5.0" x 3.9")                                                                                                   |
| Environmental Casing  | Weatherproof (IP68), Vandal proof (IK10)                                                                                               |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.                                    |
| Operating Temperature | -40°C ~ 60°C (-40°F ~ 140°F)                                                                                                           |
| Operating Humidity    | 10% - 95% RH                                                                                                                           |
| Surge Protection      | 6KV                                                                                                                                    |
| Approvals             | CE Class B, FCC Class B, IP68, IK10, UL Listed                                                                                         |
| Color                 | White                                                                                                                                  |
| Real-time Clock (RTC) | No                                                                                                                                     |
| Warranty              | 2 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.

## ► Related Products

### Mounting Accessories - Camera Mount

|           |                                                                                     |                                                                                                        |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| PMAX-0128 |  | Pendant Mount (for Z85, Z86, Z87, Z810)                                                                |
| PMAX-0323 |  | Wall Mount with Built-in Junction Box (for Z91, Z94, Z95, Z97, Z98, Z77, Z81, Z82, Z85, Z86, Z87, A7X) |
| PMAX-0527 |  | Pole Mount (for Z4x, Z710, Z8x, Z9x, A7x), supports 2.64" to 5" Poles                                  |
| PMAX-0532 |  | Pole Mount (Z710, Z8x, Z9x, A7x), supports 2.6" to 5" Poles                                            |
| PMAX-0713 |  | Junction box / Mount Kit (for Z81, Z82, Z85, Z86, Z87, Z812, Z813, Z814)                               |

**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

|            |                                                                                   |                               |
|------------|-----------------------------------------------------------------------------------|-------------------------------|
| R701-70013 |  | Z85/Z86/ Z812/Z813 Dome Cover |
|------------|-----------------------------------------------------------------------------------|-------------------------------|

Power Supply Accessories - Power Adapter

|           |                                                                                   |                                                                                      |
|-----------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 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                |
| PPBX-0026 |  | Power Adapter AC 100~240V (US), for A3x, A4x, A7x, A88, A9x, Z3x, Z4x, Z7x, Z8x, Z9x |

Power Supply Accessories - PoE Injector

|           |                                                                                   |                                                                                                                                                          |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPOE-0107 |  | High PoE Injector IEEE 802.3at compliant, AC 100~240V, with universal connectors (for A416, A418, B913, B923, B934, Q450, Q75, VMGB-60X, Z37, Z71, Z952) |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|