# Z714

## 8MP Deep Learning AI LightGuard f2.8mm Outdoor Fixed Dome with IR LED 40m, WDR 130dB




- 8 Megapixel, f2.8mm, Fixed Dome
- Deep Learning AI, LightGuard
- IR LED 40m, Extreme WDR (130 dB)
- Color Min. Illumination 0.005 lux
- Smart Motion Detection
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

## Specifications

### Product Profile

| | |
|---|---|
| Product Type | Fixed Dome |
| Application Environment | Outdoor |
| Maximum Resolution | 8MP |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.7 " |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| LightGuard | Yes |
| Minimum Illumination | Color: 0.005 lux at F1.6 (AGC on); B/W: 0 (IR LED on) |
| Mechanical IR Cut Filter | Yes |
| IR LED | Adaptive IR LED x 1 (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

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|---|---|
| Focal Length | Fixed focal, f2.8mm |

| | |
|---|---|
| Aperture | F1.6 |
| Iris | Fixed iris |
| Focus | Fixed focus |
| Horizontal Viewing Angle | 99° |
| Vertical Viewing Angle | 55.3° |
| Viewing Angle Adjustment | Pan: 8°-360°, Tilt: 0°-68°, Rotation: 10°-360° |

## Video

| | |
|---|---|
| Compression | H.265 Adaptive Stream, H.264 Adaptive Stream, MJPEG |
| Maximum Frame Rate vs. Resolution | 20 fps at 3840 x 2160 30 fps at 3072 x 1728 30 fps at 2560 x 1440 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 720 x 576 30 fps at 640 x 360 30 fps at 704 x 288 30 fps at 352 x 288 |
| Bit Rate | 128Kbps - 16Mbps |
| Multi-Streaming | Simultaneous dual streams |
| Digital Noise Reduction | 2D + 3D DNR |
| Wide Dynamic Range | Extreme WDR (130 dB) |
| Image Orientation | Flip, Mirror, Rotation (Corridor mode)(±90º, 180º) |
| Image Enhancement | White Balance, Backlight compensation (BLC), Strong Light Suppression, Brightness, Contrast, Saturation, Sharpness, Automatic gain control (AGC), Defogging |
| Privacy Mask | 4 configurable regions |
| Text Overlay | Yes |
| Built-in Analytics | Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, Object Line Crossing Detection, People Intrusion Detection, Tampering Detection |

## Analytics

| | |
|---|---|
| Deep Learning AI | 1.0 |

## 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, SMTP, FTP, IGMP, ICMP, ARP, UPnP, SNMP, SSL, 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, Tampering detection, |
| Event Response | E-mail notification with snapshots, Upload snapshot to FTP server, Save video or snapshot to storage |

## System

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

## 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

| | |
|---|---|
| Operating Button | Reset Button |

## General

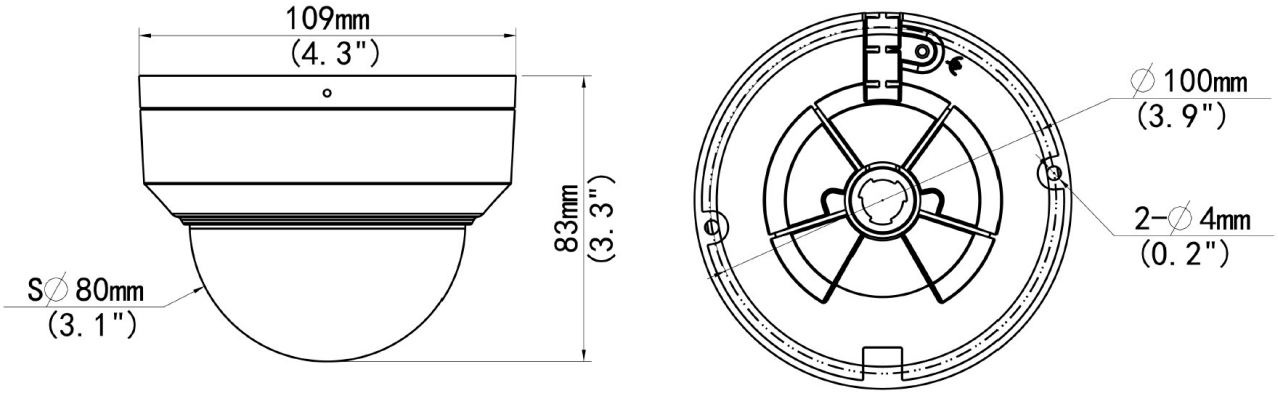
| | |
|---|---|
| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
| Power Consumption | 4.5 W (PoE) |
| Dimensions | (Ø x H): 109mm x 83mm (4.3" x 3.3") |
| Environmental Casing | Weatherproof (IP68), Vandal proof (IK10) |
| Corrosion Protection | Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years. |
| Operating Temperature | -30°C ~ 60°C (-22°F ~ 140°F) |
| Operating Humidity | ≤95% RH, non-condensing |
| 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 http://www.acti.com/support/warranty |

## Photo Indication




1. DC 12V Power Input
2. Reset Button
3. Ethernet Port

## Dimension Diagram




Unit: mm [inch]

# Related Products

## Mounting Accessories - Camera Mount

| | | |
|---|---|---|
| PMAX-0111 |  | Straight Tube (for D5x, D9x, E5x, E9x, E9xx/M) |
| PMAX-0112 |  | Extension Tube (for D5x, D9x, E5x, E9x, E9xx/M) |
| PMAX-0122 |  | Straight Tube (for A71, A88, A9x,) |
| PMAX-0123 |  | Extension Tube (for A71, A88, A9x,) |
| PMAX-0128 |  | Pendant Mount (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550) |
| PMAX-0318 |  | Wall Mount (for Z91, Z97, Z98, Z710, Z714, Z715, A71, A76, A77) |
| PMAX-0409 |  | Corner Mount (for A7x, Z714, Z724, Z8x, Z9x, Z972, Q550, K3x, K5x, K7x) |
| PMAX-0506 |  | Pole Mount (for A31, A4x, E78, E9x, E9xx), supports 2" to 3" Poles |
| PMAX-0532 |  | Pole Mount (for Z5x, Z724, Z8x, Z9x, Z972, A7X, Q550), supports 2.6" to 5" Poles |
| PMAX-0712 |  | Junction box (for Z91, Z92, Z94, Z95, Z97, Z98, Z714, Z77) |
| PMAX-0816 |  | Converter Ring, 1.0" NPT for Third-Party Mounting Accessories, White |
| PMAX-0820 |  | Gang Box Converter (for A71, A74, Z91, Z94, Z95), supports 4" Round and 4" Octagon Boxes |
| PMAX-1402 |  | Mount Kit (for Z91, Z97, Z98, Z710, Z714, Z715, A71, A76, A77) |

**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-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) |

## Other Accessories - Camera Part

| | | |
|---|---|---|
| R707-X0016 |  | Rubber-GX waterproof (for Z cameras) (5pcs/BOX) |

2026/9/17



• For product and mounting accessory information, visit: www.acti.com/products and www.acti.com/mountingselector
• All specifications are subject to change without notice.