

Z818

8MP Deep Learning AI 5x Outdoor Zoom Dome with IR LED 60m, White LED 40m, Smart Dual Light, ColorVizion, WDR 130dB



- 8 Megapixel, 5x, Zoom Dome
- Deep Learning AI
- IR LED 60m, Extreme WDR (130 dB)
- White LED 40m, Smart Dual Light, Color Min. Illumination 0.001 lux, ColorVizion
- Smart Motion Detection, Smart Intrusion Protection
- Counting
- DORI (81-405 / 32.4-162 / 16.2-81 / 8.1-40.5m)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

► Specifications

Product Profile

Product Type	Zoom Dome
Application Environment	Outdoor
Maximum Resolution	8MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Day / Night	Yes
Low Light Sensitivity	Extreme
ColorVizion	Yes
Minimum Illumination	Color: 0.001 lux at F1.4 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED
IR Working Distance	60m
White LED	Yes
White LED Working Distance	40m
Smart Dual Light	Yes. Default IR; White Light can be enabled through configuration.
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)

S/N Ratio	75 dB
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Lens

Focal Length	Zoom, f2.7-13.5mm
Aperture	F1.4
Zoom Ratio	5x optical zoom
Zoom Application	Camera Installation
Iris	Adaptive iris
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	111.5° - 34.4°
Vertical Viewing Angle	58.7° - 19.2°
Viewing Angle Adjustment	Pan: 0°-355°, Tilt: 0°-76°, Rotation: 0°-355°

Video

Compression	H.265 Adaptive Stream, H.264 (Baseline/ Main/ High profile), MJPEG
Smart ROI	Yes, supports up to 8 configurable regions per supported stream
Maximum Frame Rate vs. Resolution	25 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 triple streams
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (130 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode)(±90°, 180°)
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Brightness, Contrast, Sharpness, Automatic gain control (AGC), Defogging
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), Smart Intrusion Protection (, People Line Crossing Detection, People Intrusion Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Intrusion Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection), Tampering Detection, People Flow Counting, People Density Counting

Analytics

Deep Learning AI	2.0
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Audio

Audio Type	2-way, Built-in Microphone, Line-in, Line-out
Audio Compression	G.711, AAC

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, SSL/TLS, QoS, SNMP, IEEE 802.1X
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Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 pigtail connector
Security	IP address filtering, HTTPS encryption, Password protected user level

Detection Range

Observation Range	Detection: 81m-405m Observation: 32.4m-162m Recognition: 16.2m-81m Identification: 8.1m-40.5m
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Event

Event Trigger	Video motion detection (4 regions), External device through digital input, Sound detection, Intelligent event detection
Event Response	E-mail notification with snapshots, Save video or snapshot to storage, Upload snapshot to FTP server, Activate external device through digital output

Integration

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

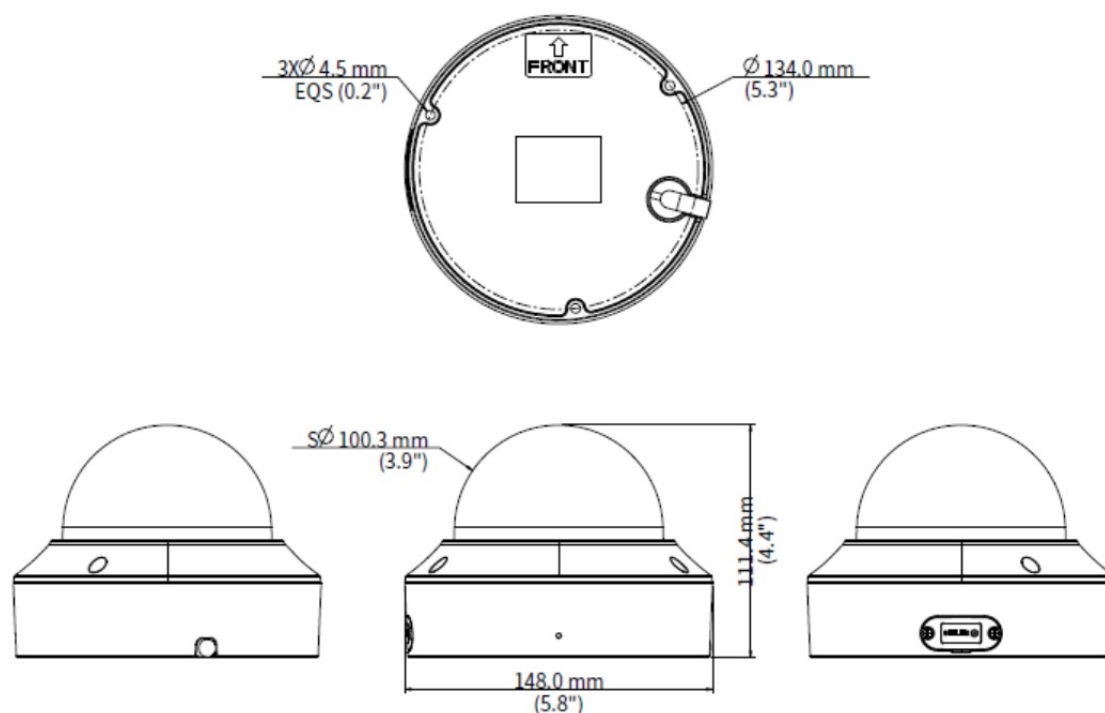
Interface

Digital Input/Output	1/1
Operating Button	Reset Button

General

Power Source	DC 12V, PoE (IEEE802.3af)
Power Consumption	8.6 W (PoE)
Weight	976.5g (2.15lb)
Dimensions	(Ø x H): 148mm x 111.4mm (5.8" x 4.4")
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
Surge Protection	4KV
Approvals	CE Class B, FCC Class B, IP68, IK10, UL Listed
Color	White
Material	Metal
Real-time Clock (RTC)	Yes
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

► 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, Z810, A811, A818)
PMAX-0128		Pendant Mount (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)
PMAX-0134		Extension Tube, 200 mm (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)
PMAX-0367		Wall Mount with Built-in Junction Box (for Z83, Z84, Z810, Z818)
PMAX-0538		Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550, K3x, K5x, K7x) , supports 2.64" to 5" Poles

PMAX-0723



Junction Box (for Z83, Z84)

PMAX-0808



Converter Ring, 1.5" NPT for Third-Party Mounting Accessories

PMAX-1031



Flush Mount (for Z83, Z84)

PMAX-1405



Mount Kit (for A826)

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.