Z81

2MP 4.4x Outdoor Zoom Turret with IR LED 30m, WDR 120dB



- 2 Megapixel, 4.4x, Zoom Turret
- IR LED 30m, Extreme WDR (120 dB)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

Specifications

Product Profile

Product Type	Zoom Turret
Application Environment	Outdoor
Maximum Resolution	2MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.9 "
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.02 lux; B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED
IR Working Distance	30m
Electronic Shutter	1-1/100000 second (auto mode)
S/N Ratio	75 dB

Lens

Focal Length	Zoom, f2.7-12mm
Aperture	F1.4

Zoom Ratio	4.4x optical zoom
Zoom Application	Camera Installation
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	94° - 28°
Vertical Viewing Angle	56.7° - 14.4°
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 15°-90°, Rotation: 0°-360°

Video

Compression	H.265 Adaptive Stream, 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
Multi-Streaming	Simultaneous triple streams
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (120 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode)
Image Enhancement	White Balance, Brightness, Saturation, Contrast, Sharpness, Automatic gain control (AGC), Defogging
Privacy Mask	8 configurable regions
Text Overlay	Yes
Built-in Analytics	Tampering Detection

Audio

Audio Type	1-way, Built-in Microphone

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, QoS, SNMP, IEEE 802.1X
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 pigtail connector

Event

Event Trigger	Video motion detection
Event Response	E-mail notification with snapshots, Upload snapshot to FTP server

Integration

ONVIF Compliant	Yes, Profile S
Web Browser	IE 11

Interface

Operating Button	Reset Button

General

Power Source	DC 12V, PoE Class 3 (IEEE802.3af)
Power Consumption	8.16 W (DC), 8.16 W (PoE)

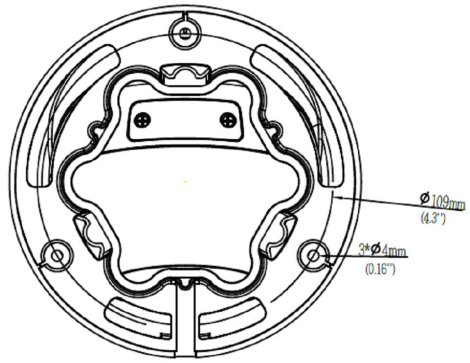
Weight	450g (0.99lb)
Dimensions	(Ø x H): 129mm x 110mm (5.08" x 4.3")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Approvals	CE, FCC, EAC, IP68, IK10, UL Listed (UL 60950-1)
Real-time Clock (RTC)	Yes
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

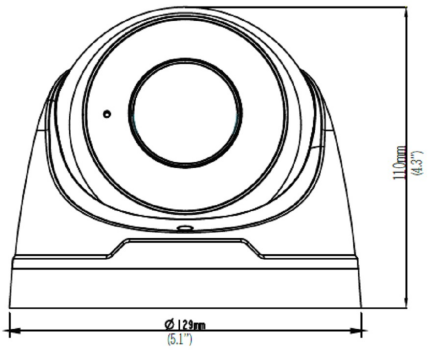
Photo Indication



1. Reset Button
2. DC12V Power Input Jack
3. Ethernet Port

Dimension Diagram





Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

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-0366		Wall Mount with Built-in Junction Box (for Z9x, Z724, Z77, Z8x, Z972, A7X, Q550)
PMAX-0409		Corner Mount (for A7x, Z714, Z724, Z8x, Z9x, Z972, Q550, K3x, K5x, K7x)
PMAX-0532		Pole Mount (for Z5x, Z724, Z8x, Z9x, Z972, A7X, Q550), supports 2.6" to 5" Poles
PMAX-0538		Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550, K3x, K5x, K7x) , supports 2.64" to 5" Poles
PMAX-0736		Junction Box (for Z724, Z81, Z82, Z85, Z86, Z87, Z812, Z813, Z814, Z914, Z972, Q550)

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)

2026/9/17