

K81

2MP Deep Learning AI 4.3x Outdoor Zoom Dome with IR LED 60m, WDR 130dB



- 2 Megapixel, 4.3x, Zoom Dome
- Deep Learning AI
- IR LED 60m, Extreme WDR (130 dB)
- Color Min. Illumination 0.003 lux
- Smart Motion Detection
- DORI (29-124.1 / 14.5-62.1 / 7-29.8 / 4.3-18.6m)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

Specifications

Product Profile

Product Type	Zoom Dome
Application Environment	Outdoor
Maximum Resolution	2MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Day / Night	Yes
Low Light Sensitivity	Extreme
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 (850 nm)
IR Working Distance	60m
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
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Aperture	F1.6-F3.3
Zoom Ratio	4.3x optical zoom
Iris	Fixed iris
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	111° - 36.6°
Vertical Viewing Angle	59.4° - 20.6°
Viewing Angle Adjustment	Pan: 3°-360°, Tilt: 0°-70°, Rotation: 3°-360°

Video

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.265, H.264 Adaptive Stream (equivalent to Zip or Smart Stream or H.264+), H.264, 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 30 fps at 704 x 288 30 fps at 352 x 288
Bit Rate	128Kbps - 6Mbps
Bit Rate Mode	Constant, Variable
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)(±90°, 180°)
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Brightness, Contrast, Saturation, Sharpness, Automatic exposure, Automatic gain control (AGC), Defogging
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), People Line Crossing Detection, People Intrusion Detection, Tampering Detection

Analytics

Deep Learning AI	1.0
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Audio

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

Network

Network Protocol & Service	IPv4, IPv6, 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
Maximum User Connections	32
Security	IP address filtering, HTTPS encryption, TLS 1.2 encrypted communication, Password protected user level, Password Strength Indicator

Detection Range

Observation Range	Detection: 29m-124.1m Observation: 14.5m-62.1m Recognition: 7m-29.8m Identification: 4.3m-18.6m
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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 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
SD Card Backup and Recovery	Automatically back up the video recordings from the memory card of camera to Server via ONVIF (Profile G) integration with recovering lost videos after network connection recovery. *

Interface

Operating Button	Reset Button
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General

Power Source	DC 12V, PoE (IEEE802.3af)
Power Consumption	6.7 W (PoE)
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Mount Type	Pole Mount
Starting Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Operating Humidity	≤95% RH, non-condensing
Approvals	CE Class A, FCC Class A, IP68, IK10, UL Listed, BSMI
Color	White
Real-time Clock (RTC)	Yes
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

Related Products**Turret - Zoom Turret**

Z81	 2MP Outdoor Zoom Turret with D/N, Adaptive IR, Extreme WDR, SLLS, 4.4x Zoom lens, f2.7-12mm/F1.4 (HOV: 94°-28°), Auto Focus (for installation), H.265/H.264, 1080p/30fps, 2D+3D DNR, Built-in Microphone, PoE/DC12V, IP67
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Z814		4MP Outdoor Zoom Turret with D/N, Adaptive IR, Superior WDR, SLLS, 4.3x Zoom lens, f2.8-12mm/F1.6 (HOV: 89.4° - 29.3°), Auto Focus (for installation), H.265/H.264, 2D+3D DNR, Built-in Microphone, PoE/DC12V, IP68, IK10
Z82		4MP Outdoor Zoom Turret with D/N, Adaptive IR, Extreme WDR, SLLS, 4.4x Zoom lens, f2.7-12mm/F1.4 (HOV: 91°-27°), Auto Focus (for installation), H.265/H.264, 1080p/30fps, 2D+3D DNR, Built-in Microphone, PoE/DC12V, IP67
Z87		4MP Outdoor Zoom Turret with D/N, Adaptive IR, Superior WDR, SLLS, 4.3x Zoom lens, f2.8-12mm/F1.6 (HOV: 99.8°-30.7°), Auto Focus (for installation), H.265/H.264, 2D+3D DNR, Built-in Microphone, PoE/DC12V, IP67

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.