

L81

2MP Deep Learning AI 4.3x Outdoor Zoom Dome with IR LED 65m, White LED 55m, Smart Dual Light, WDR 140dB



- 2 Megapixel, 4.3x, Zoom Dome
- Deep Learning AI
- IR LED 65m, Extreme WDR (140 dB)
- White LED 55m, Smart Dual Light, Color Min. Illumination 0.001 lux
- Smart Motion Detection
- DORI (45.7-141.4 / 18.1-56.1 / 9.1-28.3 / 4.6-14.1m)
- Weatherproof (IP68), Vandal proof (IK10)
- Taiwan IoT Cybersecurity Certification

► 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: 0.001 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	65m
White LED	Yes
White LED Working Distance	55m
Smart Dual Light	Yes. Default IR; White Light can be enabled through configuration.
Electronic Shutter	1/3-1/100000 second (auto mode)
S/N Ratio	75 dB

Lens

Focal Length	Zoom, f2.8-12mm
Aperture	F1.6-F3.3
Zoom Ratio	4.3x optical zoom
Iris	Adaptive iris
Focus	Fixed focus
Lens Mount	Board mount (Φ14)
Horizontal Viewing Angle	102.4° - 31.2°
Vertical Viewing Angle	54.4° - 17.5°
Viewing Angle Adjustment	Pan: 0°-355°, Tilt: 0°-70°, Rotation: 0°-355°

Video

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.265, H.264 (Baseline/ Main profile), MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1920 x 1080 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 704 x 480 30 fps at 640 x 480 30 fps at 352 x 240
Bit Rate	32Kbps - 8Mbps
Bit Rate Mode	Constant, Variable
Multi-Streaming	Simultaneous triple streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Extreme WDR (140 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode)
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Brightness, Contrast, Sharpness, Saturation
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), Tampering Detection

Analytics

Deep Learning AI	1.0
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Audio

Audio Type	2-way, Built-in Microphone, Line-in, Line-out
Audio Compression	G.711, G.726, PCM

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, LLDP, SMTP, FTP, SFTP, IGMP, ICMP, ARP, Bonjour, UPnP, QoS, SNMP, Digest Authentication
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
Maximum User Connections	30
Security	IP address filtering, HTTPS encryption, TLS v1.2, TLS v1.3 encrypted communication, Mutual TLS (mTLS) authentication, Password protected user level, Anonymous login

Detection Range

Observation Range	Detection: 45.7m-141.4m Observation: 18.1m-56.1m Recognition: 9.1m-28.3m Identification: 4.6m-14.1m
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Event

Event Trigger	Video motion detection (10 included and excluded rectangle regions), External device through digital input, Sound detection, Tampering detection, Video streams loss, System log buffer overrun, Remove system log, Logon events (Login Failure, Login Success, Block an Account), SD Card Write Failure
Event Response	Notify control center, Change camera settings, Command other devices, E-mail notification with snapshots, Push notification to mobile device, Save video to storage, Upload video to NVR server, Upload snapshot to FTP server, Activate external device through digital output

System

System Log	Support
Language	Multi-Language

Integration

GPS Position	Manual setting
ONVIF Compliant	Yes, Profile S, Profile T, Profile G, Profile M
Web Browser	IE 11, Google Chrome, Microsoft Edge, Apple Safari, Firefox
Auto Firmware Upgrade	Yes

Interface

Audio Interface	Built-in microphone, 1/1, Terminal block
Digital Input/Output	1/1
Operating Button	Reset Button

Installation

Installation Tool	Built-in Pixel Counter
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General

Power Source	DC 12V, PoE Class 3 (IEEE802.3af)
Power Consumption	9.6 W (DC), 12 W (PoE)
Weight	530g(1.17lb)
Dimensions	(Ø x H): 121.5mm x 97.6mm (4.78" x 3.84")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Starting Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Operating Humidity	≤95% RH, non-condensing
Approvals	CE Class A, FCC Class A, IP68, IK10, BSMI, Taiwan IoT Cybersecurity Certification (CNS-16120 Level 1)

Color	White
Material	Base Plate: Metal Dome Cover: Plastic
Real-time Clock (RTC)	No
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

► Related Products

Mounting Accessories - Camera Mount

PMAX-0136		Pendant Mount (for A76D, A77D, A78D, A820D, A821D, A822D)
PMAX-0372		Wall Mount (for A76D, A77D, A78D, A820D, A821D, A822D)
PMAX-0373		Wall Mount with Junction Box (for A76D, A77D, A78D, A820D, A821D, A822D)
PMAX-0407		Corner Mount (for A42x, A42xD, A570, A570-P1, A570-P2, A7xD, A82xD, VMGB-359, VMGB-359-P1)
PMAX-0740		Junction box (for A76D, A77D, A78D, A820D, A821D, A822D)

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.