

## **AXIS M4308-PLE Panoramic Camera**

## 12 MP outdoor-ready dome with audio capture

AXIS M4308-PLE is a discreet, outdoor-ready mini dome designed to blend seamlessly into any environment. With a 12 MP sensor and stereographic lens, it offers outstanding images and complete 360° panoramic overview. Thanks to Sharpdome 360, this panoramic camera delivers greater sharpness at the edges of the image. AXIS Object Analytics is included and a deep learning processing unit (DLPU) enables unique opportunities to take advantage of analytics based on deep learning on the edge. It includes Axis Lightfinder and Axis Forensic WDR for true colors and great details in challenging light or near darkness. Plus, Axis OptimizedIR for surveillance in pitch darkness. Four built-in microphones and voice enhancer offers audio capture with great noise suppression.

- > 12 MP sensor with 360° overview
- > Stereographic lens and Sharpdome 360
- > Lightfinder, Forensic WDR, OptimizedIR
- > Support for analytics with deep learning
- > 4 microphones with voice enhancer





## AXIS M4308-PLE Panoramic Camera

Camera		System integra	rtion			
Image sensor	1/1.7" progressive scan RGB CMOS	Application	Open API for software integration, including VAPIX®, metadata,			
Lens	1.3 mm, F2.4 Horizontal field of view: 183° Vertical field of view: 183° Fixed iris, fixed focus, IR corrected	Programming Interface	and AXIS Camera Application Platform (ACAP); specifications a axis.com/developer-community. ACAP includes Native SDK an Computer Vision SDK. AXIS Guardian with One-Click Connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S,			
Day and night	Automatically removable infrared-cut filter		ONVIF® Profile T specification at <i>onvif.org</i>			
Minimum illumination	Color: 0.19 lux at 50 IRE, F2.4 B/W: 0.04 lux at 50 IRE, F2.4 0 lux with IR illumination on		Support for Session Initiation Protocol (SIP) for integration wi Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX			
Shutter speed	1/22000 s to 1 s	Onscreen controls	Day/night shift Wide dynamic range			
Camera angle adjustment	Digital roll: ± 180°	Controls	Wide offiamic range Video streaming indicator IR illumination			
System on chip (SoC)		Event conditions	Analytics, edge storage events, virtual inputs through API,			
Model	ARTPEC-7		supervised external inputs, open casing, audio detection MQTT subscribe			
Memory	2 GB RAM, 1 GB Flash	Event estions				
Compute capabilities	Deep learning processing unit (DLPU)	Event actions	Record video/audio: SD card and network share MQTT publish Upload of images or video/audio clips: FTP, SFTP, HTTP, HTTPS,			
Video			network share and email			
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour			
Resolution	Overview: 2880x2880 to 160x160 Panorama: 3840x2160 to 192x72 Double Panorama: 3584x2688 to 512x288		Overlay text, external output activation, play audio clip, zoom preset, day/night mode			
	Quad view: 3584x2688 to 512x288 View area 1-4: 2048x1536 to 256x144 Corner right/left: 3200x1200 to 192x72	Built-in installation aids	Pixel counter, digital roll, repositioning of quad views, digital PTZ of view areas, digital PT of panorama, corner, corridor and quad views			
	Double corner: 2560x1920 to 480x480	Analytics				
Video streaming	Corridor: 2560x1920 to 256x144  360° overview only, up to 2880x2880 without WDR: 25/30 fps @ 50/60 Hz 360° overview and dewarped views up to max resolution with WDR: up to 12.5/15 fps @ 50/60 Hz  Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth	AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area Up to 10 scenarios Metadata visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event  Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates			
					VBR/ABR/MBR H.264/H.265 Low latency mode	Metadata
				Multi-view streaming	360° overview, dewarped panorama, corridor, corner left/right and quad views. Up to 4 individually cropped out and dewarped view areas. All different views can be streamed simultaneously. When streaming 4 dewarped view areas and one 360° overview in max resolution: up to 19 fps per stream.	
Applications	Included AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection					
Image settings	Compression, color saturation, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, tone mapping, exposure control (including automatic gain control), exposure zones, Forensic WDR: up to 120 dB depending on scene, fine tuning of low-light behavior, dynamic text and image overlay,		Supported Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner. Support for AXIS Camera Application Platform enabling			
	mirroring, digital roll, polygon privacy masks		installation of third-party applications, see axis.com/acap			
Pan/Tilt/Zoom	Digital PTZ of view areas, digital PT of panorama, corner, corridor and quad views, preset positions, guard tours	Cybersecurity  Edge security	Software: Signed firmware, brute force delay protection, digest			
Audio		- •	authentication and OAuth 2.0 RFC6749 OpenID Authorization			
Audio streaming	One-way, simplex, mono or stereo. Voice enhancement		Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption			
Audio encoding	LPCM 48 kHz, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate		Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot			
Audio	4 built-in microphones (can be disabled), network speaker pairing	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2),			
input/output			IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,			
Network			HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall			
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),	Documentation	AXIS OS Hardening Guide			
protocois	UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC	2 ocamentation	Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu-			
	3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		rity/resources			

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	To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casing	IP66-, NEMA 4X- and IK10-rated (IR window IK09) Polycarbonate hard coated dome Sharpdome 360 Aluminum Color: white NCS S 1002-B For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner.
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 7.9 W, max 15.5 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 25 mA)
IR illumination	OptimizedIR with with power-efficient, long-life 850 nm IR LEDs Range of reach 15 m (49 ft) or more depending on scene
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °F) Maximum temperature (intermittent): 55 °C (131 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KS C9832 Class A, KS C9835

	Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IEC/EN 62471, IS 13252 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK10 (IR window IK09), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network IPv6 USGv6, NIST SP500-267
Cybersecurity	ETSI EN 303 645
Dimensions	Height: 69 mm (2.7 in) ø 149 mm (5.8 in)
Weight	850 g (1.9 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, cable gaskets, connector guard, I/O connector, RESISTORX® TR20 bit, mounting bracket, cable hole lid, view protector
Optional accessories	AXIS T94T02D Pendant kit with weathershield AXIS Surveillance Cards AXIS TM3808-E Skin Cover Black AXIS Mounts & Cabinets AXIS TM3204 Recessed Mount AXIS TM3206 Recessed Mount For more accessories, see axis.com
Video management software	AXIS Device Manager, AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

