

AXIS M3216-LVE Dome Camera

Affordable surveillance in 4 MP with deep learning

This cost-effective fixed focal dome offers Lightfinder, Forensic WDR, and OptimizedIR, and ensures excellent image quality under any light conditions. Built on ARTPEC-8, it includes a deep learning processing unit enabling powerful analytics based on deep learning on the edge. Plus, it delivers valuable metadata facilitating fast, easy, and efficient forensic search capabilities. And AXIS Object Analytics offers detection and classification of humans, vehicles, and types of vehicles—all tailored to your specific needs. Featuring audio and I/O connectivity, you can integrate for instance a microphone to extend the value of your system. Furthermore, built-in cybersecurity features safeguard your system.

- > **Excellent image quality in 4 MP**
- > **Lightfinder, Forensic WDR, OptimizedIR**
- > **Analytics with deep learning**
- > **Audio and I/O connectivity**
- > **Built-in cybersecurity features**



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Camera		Onscreen controls	Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination Enable-disable all privacy masks Play media clip
Image sensor	1/2.7" progressive scan RGB CMOS	Event conditions	Analytics, external input, supervised external input, virtual inputs through API Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay I/O: digital input, manual trigger, virtual input Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active, casing open Call: state, state change Video: average bitrate degradation, day-night mode, live stream open, tampering Audio: audio detection, audio clip playing, audio clip currently playing Edge storage: recording ongoing, storage disruption, storage health issues detected Scheduled and recurring: schedule MQTT: stateless
Lens	2.9 mm, F2.0 Horizontal field of view: 102° Vertical field of view: 73° Minimum focus distance: 1.0 m (3.3 ft) Fixed iris, IR corrected	Event actions	Overlay text, day/night mode, flash status LED, use lights, set defog mode, set WDR mode I/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: HTTP, HTTPS, TCP and email Audio clips: play, stop Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Calls: answer call, end SIP call, make SIP call SNMP traps: send, send while the rule is active
Day and night	Automatic IR-cut filter Hybrid IR filter	Data streaming	Event data
Minimum illumination	With WDR and Lightfinder: Color: 0.16 lux at 50 IRE, F2.0 B/W: 0 lux at 50 IRE, F2.0 0 lux with IR illumination on	Built-in installation aids	Pixel counter, straighten image, level grid
Shutter speed	1/50000 s to 1/5 s	Analytics	
Camera angle adjustment	Pan ±190°, tilt -10 to +80°, rotation ±190°	Applications	Included AXIS Object Analytics, Scene metadata, AXIS Video Motion Detection, active tampering alarm, audio detection AXIS Live Privacy Shield Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
System on chip (SoC)		AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Scenarios: line crossing, object in area, crossline counting, occupancy in area, time in area Up to 10 scenarios Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Model	ARTPEC-8	Scene metadata	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: vehicle color, upper/lower clothing color, confidence, position
Memory	1024 MB RAM, 8192 MB Flash	Approvals	
Compute capabilities	Deep learning processing unit (DLPU)	EMC	EN 55032 Class A, EN 61000-6-1, EN 61000-6-2 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A) Japan: VCCI Class A Korea: KC KN35KC, KN32 Class A USA: FCC Part 15 Subpart B Class A
Video		Safety	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471 risk group exempt, IS 13252
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		
Resolution	16:9: 2688x1512 to 160x90 4:3: 2304x1728 to 160x120		
Frame rate	Up to 30/25 fps (60/50 Hz) in all resolutions		
Video streaming	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 VBR/ABR/MBR H.264/H.265 Low latency mode		
Multi-view streaming	Up to 8 individually cropped out view areas		
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, local contrast, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask		
Pan/Tilt/Zoom	Digital PTZ		
Audio			
Audio streaming	Two-way audio via edge-to-edge technology		
Audio encoding	AAC 8/16/32/44.1/48 kHz, G.711 8 kHz, G.726 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz Configurable bit rate		
Audio input/output	External microphone input or line input, ring power, digital audio input, automatic gain control Network speaker pairing		
Network			
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SOCKS, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		
System integration			
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.		

Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)	Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Network	NIST SP500-267	Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °F) Humidity 10-100% RH (condensing)
Cybersecurity	ETSI EN 303 645	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Cybersecurity			
Edge security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)	Dimensions	Without weathershield: Height: 102 mm (4.0 in) ø 149 mm (5.9 in)
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	Weight	With weathershield: 791 g (1.74 lb)
Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> <i>AXIS OS Software Bill of Material (SBOM)</i> To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity	Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, RESISTORX® TR20 bit, terminal block connector, cable gaskets, connector guard, weathershield
General			
Casing	IP66-, NEMA 4X- and IK10-rated Polycarbonate hard-coated dome Plastic casing, sunshield (PC/ASA) Color: white NCS S 1002-B For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting . This product can be repainted.	Optional accessories	AXIS TP3823-E Weathershield Black AXIS TP3821-E Casing Black AXIS TM3815-E Dome Smoked AXIS Surveillance Cards For more accessories, see axis.com
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount ½" (M20) or ¾" (M25) conduit side entry, with conduit adapter	Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.8 W, max 10.8 W	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm (0.098 in) terminal block for 1 supervised digital input and 1 digital output (12 V DC output, max. load 25 mA) Audio: 3.5 mm mic/line in	Warranty	5-year warranty, see axis.com/warranty
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 30 m (98 ft) or more depending on the scene	Sustainability	
		Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard J5709 RoHS in accordance with EU RoHS Directive 2011/65/EU and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu
		Materials	Renewable carbon-based plastic content: 12% (bio-based) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability
		Environmental responsibility	axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org