AXIS M3216-LVE Dome Camera
Robust and cost-effective fixed dome

This cost-effective fixed focal dome offers Lightfinder, Forensic WDR, and OptimizedIR. AXIS M3216-LVE delivers great image quality under any light conditions. Based on ARTPEC-8, it includes a deep learning processing unit enabling advanced features and powerful analytics based on deep learning on the edge. With AXIS Object Analytics it offers detection and classification of humans and vehicles, all tailored to your specific needs. It offers the flexibility to add audio and I/O connectivity using accessories. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis products on your network.

> **Great image quality in 4MP**

> **Analytics with deep learning**

> **Lightfinder, Forensic WDR and OptimizedIR**

> **Audio and I/O connectivity**

> **Built-in cyber security features**

AXIS M3216-LVE Dome Camera

Camera

Image sensor	1/2.7" progressive scan RGB CMOS
Lens	2.9 mm, F2.0 Horizontal field of view: 102° Vertical field of view: 73° Fixed iris, IR corrected
Day and night	Automatically removable infrared-cut filter
Minimum illumination	With WDR and Lightfinder: **Color:** 0.16 lux at 50 IRE, F2.0 **B/W:** 0 lux at 50 IRE, F2.0 with IR illumination on
Shutter speed	1/50000 s to 1/5 s
Camera angle adjustment	Pan ±190°, tilt -10 to +80°, rotation ±190°

System on chip (SoC)

Model	ARTPEC-8
Memory	1024 MB RAM, 8192 MB Flash
Compute capabilities	Deep learning processing unit (DLPU)

Video

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	2688x1512 to 160x90 (16:9) 2304x1728 to 160x120 (4:3)
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
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, 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

Security	Password protection, IP address filtering, HTTPS[a] encryption, IEEE 802.1x (EAP-TLS)[a] network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified)
Supported protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[a], HTTP/2, TLS[a], 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, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SOCKS, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Syslog, 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.

Onscreen controls	Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination Enable-disable all privacy masks Play media clip
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
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
Data streaming	Event data
Built-in installation aids	Pixel counter, straighten image, level grid

Analytics

AXIS Object Analytics	**Object classes:** humans, vehicles (types: cars, buses, trucks, bikes) **Trigger conditions:** line crossing, object in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
Applications	**Included** AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection **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 installation of third-party applications, see *axis.com/acap*

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.
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) ½" (M20) or ¾" (M25) conduit side entry, with conduit adapter
Sustainability	PVC and BFR/CFR free, 12% bioplastics
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.8 W, max 10.8 W
Connectors	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) 3.5 mm mic/line in
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
Storage	Support for microSD/microSDHC/microSDXC card and encryption 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) 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)
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 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN35KC, KN32 Class A, RCM AS/NZS CISPR 32 Class A, VCCI Class A **Safety** IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471 risk group exempt, IS 13252

	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) **Network** NIST SP500-267
Dimensions	**Without weathershield:** Height: 102 mm (4.0 in) ø 149 mm (5.9 in)
Weight	**Without weathershield:** 791 g (1.7 lb)
Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, RESISTORX® TR20 bit, terminal block connector, cable gaskets, connector guard, weathershield
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*
Video management software	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
Warranty	5-year warranty, see *axis.com/warranty*

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Environmental responsibility:

axis.com/environmental-responsibility

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