

# 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](#)



# AXIS M3216-LVE Dome Camera

<b>Camera</b>		<b>System integration</b>	
<b>Image sensor</b>	1/2.7" progressive scan RGB CMOS	<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="http://onvif.org">onvif.org</a> Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
<b>Lens</b>	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	<b>Onscreen controls</b>	Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination Enable-disable all privacy masks Play media clip
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Event conditions</b>	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
<b>Minimum illumination</b>	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	<b>Event actions</b>	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
<b>Shutter speed</b>	1/50000 s to 1/5 s	<b>Data streaming</b>	Event data
<b>Camera angle adjustment</b>	Pan ±190°, tilt -10 to +80°, rotation ±190°	<b>Built-in installation aids</b>	Pixel counter, straighten image, level grid
<b>System on chip (SoC)</b>		<b>Analytics</b>	
<b>Model</b>	ARTPEC-8	<b>AXIS Object Analytics</b>	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Trigger conditions: line crossing, object in area, time in area <sup>BETA</sup> Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event
<b>Memory</b>	1024 MB RAM, 8192 MB Flash	<b>Applications</b>	<b>Included</b> AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection <b>Supported</b> Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Compute capabilities</b>	Deep learning processing unit (DLPU)	<b>General</b>	
<b>Video</b>		<b>Casing</b>	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 <a href="http://axis.com/warranty-implication-when-repainting">axis.com/warranty-implication-when-repainting</a> .
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG		
<b>Resolution</b>	2688x1512 to 160x90 (16:9) 2304x1728 to 160x120 (4:3)		
<b>Frame rate</b>	Up to 30/25 fps (60/50 Hz) in all resolutions		
<b>Video streaming</b>	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		
<b>Multi-view streaming</b>	Up to 8 individually cropped out view areas		
<b>Image settings</b>	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		
<b>Pan/Tilt/Zoom</b>	Digital PTZ		
<b>Audio</b>			
<b>Audio streaming</b>	Two-way audio via edge-to-edge technology		
<b>Audio encoding</b>	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		
<b>Audio input/output</b>	External microphone input or line input, ring power, digital audio input, automatic gain control Network speaker pairing		
<b>Network</b>			
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> 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)		
<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SOCKS, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		

	This product can be repainted.
<b>Mounting</b>	Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount 1/2" (M20) or 3/4" (M25) conduit side entry, with conduit adapter
<b>Sustainability</b>	PVC and BFR/CFR free, 12% bioplastics
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.8 W, max 10.8 W
<b>Connectors</b>	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
<b>IR illumination</b>	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 30 m (98 ft) or more depending on the scene
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
<b>Operating conditions</b>	-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)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<b>Approvals</b>	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

<b>Dimensions</b>	<b>Without weathershield:</b> Height: 102 mm (4.0 in) ø 149 mm (5.9 in)
<b>Weight</b>	<b>With weathershield:</b> 791 g (1.74 lb)
<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license, drill hole template, RESISTORX® TR20 bit, terminal block connector, cable gaskets, connector guard, weathershield
<b>Optional accessories</b>	AXIS TP3823-E Weathershield Black AXIS TP3821-E Casing Black AXIS TM3815-E Dome Smoked AXIS Surveillance Cards For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

- 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](http://axis.com/environmental-responsibility)