

AXIS M3088-V Dome Camera

Fixed 8 MP mini dome with deep learning

This cost-efficient mini dome features Wide Dynamic Range (WDR) to ensure clarity even when there's both dark and light areas in the scene. A deep learning processing unit enables intelligent analytics based on deep learning on the edge. Plus, AXIS Object Analytics including time in area feature lets you track whenever an object stays in a defined area longer than a user-defined time, for example, to detect loitering. This compact, easy-to-install, vandal-resistant camera comes factory focused so there's no manual focusing required. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > Great image quality in 8 MP
- > Compact, discreet design
- > WDR for challenging light
- > Support for analytics with deep learning
- > Built-in cybersecurity features



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Camera		I/O: manual trigger, virtual input, digital input via accessories using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering
Image sensor	1/2.8" progressive scan RGB CMOS	
Lens	2.9 mm, F2.0 Horizontal field of view: 109° Vertical field of view: 56° Fixed iris, IR corrected	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.25 lux at 50 IRE F2.0 B/W: 0.05 lux at 50 IRE F2.0	
Shutter speed	1/71500 s to 1/5 s	
Camera angle adjustment	Pan: ±175° Tilt: ±80° Rotation: ±175° Can be directed in any direction and see the wall/ceiling	
System on chip (SoC)		
Model	CV25	
Memory	2048 MB RAM, 512 MB Flash	
Compute capabilities	Deep learning processing unit (DLPU)	
Video		
Video compression	H.264 (MPEG-4 Part 10/AVC) Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	
Resolution	3840x2160 (8 MP) to 320x240	
Frame rate	12/15 fps with power line frequency 50/60 Hz in H.264 and H.265 ^a	
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/MBR H.264/H.265 Average bitrate	
Multi-view streaming	Up to 2 individually cropped out view areas in full frame rate	
Image settings	Compression, color, brightness, sharpness, contrast, white balance, exposure control, motion-adaptive exposure, WDR: up to 120 dB depending on scene, dynamic overlays, mirroring of images, privacy mask Rotation: 0°, 90°, 180°, 270°, including Corridor Format	
Pan/Tilt/Zoom	Digital PTZ	
Audio		
Audio input/output	Two-way audio connectivity via optional accessories using portcast technology	
Network		
Security	IP address filtering, HTTPS ^b encryption, IEEE 802.1x (EAP-TLS) ^b network access control, user access log, centralized certificate management, signed video Axis Edge Vault, Axis device ID	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^b , HTTP/2, TLS ^b , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SSH, 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	
Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, live stream active, network lost, new IP address, system ready, within operating temperature Edge storage: recording ongoing, storage disruption, storage health issues detected	
Event actions		Notification: HTTP, HTTPS, TCP and email Record video: SD card and network share MQTT: publish Pre- and post-alarm video or image buffering for recording or upload Record video: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email External output activation via accessories using portcast technology
Built-in installation aids		Pixel counter
Analytics		
AXIS Object Analytics	Object classes: humans, vehicles (types: cars, buses, trucks, bikes) Trigger conditions: line crossing, object in area, time in area ^{BETA} Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	
Metadata	Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position Event data: Producer reference, scenarios, trigger conditions	
Applications	Included AXIS Object Analytics, AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	
Cybersecurity		
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+ certified hardware protection of cryptographic operations and keys)	
Network security	IEEE 802.1X (EAP-TLS) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering	
Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
General		
Casing	IP42 water- and dust-resistant (to comply with IP42, follow Installation Guide), IK08 impact-resistant, polycarbonate/ABS casing Encapsulated electronics Color: white NCS S 1002-B For repainting instructions, contact your Axis partner.	
Sustainability	57% recycled plastics, PVC free, BFR/CFR free	
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 3.6 W, max 4.2 W	
Connectors	RJ45 10BASE-T/100BASE-TX PoE	
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	0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)	

Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC ICES-3(A)/NMB-3(A), EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, KS C 9835, KS C 9832 Class A, RCM AS/NZS CISPR 32 Class A, Safety IEC/EN/UL 62368-1, IS 13252 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC/EN 60529 IP42, IEC/EN 62262 Class IK08 Network NIST SP500-267
Dimensions	Height: 56 mm (2.2 in) ø 101 mm (4.0 in)
Weight	150 g (0.33 lb)

Included accessories	Installation guide, Windows® decoder 1-user license
Optional accessories	AXIS TM3812 Tamper Cover Black casing Smoked dome AXIS Surveillance microSDXC™ Card For more accessories see axis.com
Video management software	AXIS Companion, AXIS Camera Station and video management software from Axis Application Development Partners. For more information, see axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Japanese, Korean, Portuguese, Simplified Chinese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

- a. Reduced frame rate in Motion JPEG
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).