

# 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](#)



# AXIS M3088-V Dome Camera

Camera	
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 <sup>a</sup>
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 <sup>b</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>b</sup> 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 <sup>b</sup> , HTTP/2, TLS <sup>b</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, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
System integration	
Application Programming Interface	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T, specification at <a href="https://onvif.org">onvif.org</a>
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

I/O: manual trigger, virtual input, digital input via accessories using portcast technology MQTT: subscribe Scheduled and recurring: schedule Video: average bitrate degradation, tampering	
<b>Event actions</b>	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
<b>Built-in installation aids</b>	Pixel counter
Analytics	
<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>Metadata</b>	Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position Event data: Producer reference, scenarios, trigger conditions
<b>Applications</b>	Included AXIS Object Analytics, AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
Cybersecurity	
<b>Edge security</b>	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)
<b>Network security</b>	IEEE 802.1X (EAP-TLS) <sup>b</sup> , IEEE 802.1AR, HTTPS/HSTS <sup>b</sup> , TLS v1.2/v1.3 <sup>b</sup> , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>
General	
<b>Casing</b>	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.
<b>Sustainability</b>	57% recycled plastics, PVC free, BFR/CFR free
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 3.6 W, max 4.2 W
<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE
<b>Storage</b>	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 <a href="https://axis.com">axis.com</a>
<b>Operating conditions</b>	0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)

<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<b>Approvals</b>	<b>EMC</b> 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, <b>Safety</b> IEC/EN/UL 62368-1, IS 13252 <b>Environment</b> 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 <b>Network</b> NIST SP500-267
<b>Dimensions</b>	Height: 56 mm (2.2 in) ø 101 mm (4.0 in)
<b>Weight</b>	150 g (0.33 lb)
<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license

<b>Optional accessories</b>	AXIS TM3812 Tamper Cover Black casing Smoked dome AXIS Surveillance microSDXC™ Card For more accessories see <a href="http://axis.com">axis.com</a>
<b>Video management software</b>	AXIS Companion, AXIS Camera Station and video management software from Axis Application Development Partners. For more information, see <a href="http://axis.com/vms">axis.com/vms</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Japanese, Korean, Portuguese, Simplified Chinese, Traditional Chinese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

- 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 (eay@cryptsoft.com).*

Environmental responsibility:

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