

# AXIS M3086-V Dome Camera

## Fixed 4 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. With Lightfinder, it delivers sharp color images even in low light. A deep learning processing unit enables intelligent analytics based on deep learning on the edge. And AXIS Object Analytics offers detection and classification of different types of objects – all tailored to your specific needs. Furthermore, this compact, easy-to-install, vandal-resistant camera offers a wide-angle view of 130° and comes factory focused so there's no manual focusing required.

- > [Great image quality in 4 MP](#)
- > [Compact, discreet design](#)
- > [WDR and Lightfinder](#)
- > [Support for analytics with deep learning](#)
- > [Built-in cybersecurity features](#)



# AXIS M3086-V Dome Camera

<b>Camera</b>		<p>removed, live stream active, network lost, new IP address, system ready, within operating temperature</p> <p>Edge storage: recording ongoing, storage disruption, storage health issues detected</p> <p>I/O: manual trigger, virtual input, digital input via accessories using portcast technology</p> <p>MQTT: subscribe</p> <p>Scheduled and recurring: schedule</p> <p>Video: average bitrate degradation, tampering</p>
Image sensor	1/2.7" progressive scan RGB CMOS	
Lens	2.4 mm, F2.1 Horizontal field of view: 130° Vertical field of view: 93° Fixed iris, IR corrected	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	With Lightfinder: Color: 0.19 lux at 50 IRE F2.1 B/W: 0.03 lux at 50 IRE F2.1	
Shutter speed	1/38500 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	
<b>System on chip (SoC)</b>		<p><b>Event actions</b></p> <p>Notification: HTTP, HTTPS, TCP and email</p> <p>Record video: SD card and network share</p> <p>MQTT: publish</p> <p>Pre- and post-alarm video or image buffering for recording or upload</p> <p>Record video: SD card and network share</p> <p>SNMP traps: send, send while the rule is active</p> <p>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email</p> <p>External output activation via accessories using portcast technology</p>
Model	CV25	
Memory	1024 MB RAM, 512 MB Flash	
Compute capabilities	Deep learning processing unit (DLPU)	<p><b>Data streaming</b></p> <p>Event data</p>
<b>Video</b>		
Video compression	H.264 (MPEG-4 Part 10/AVC) Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	<p><b>Built-in installation aids</b></p> <p>Pixel counter</p>
Resolution	2688x1512 (4 MP) to 320x240	
Frame rate	25/30 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 streaming	<p><b>Analytics</b></p> <p><b>AXIS Object Analytics</b></p> <p>Object classes: humans, vehicles (types: cars, buses, trucks, bikes)</p> <p>Trigger conditions: line crossing, object in area, time in area<sup>BETA</sup></p> <p>Up to 10 scenarios</p> <p>Metadata visualized with color-coded bounding boxes</p> <p>Polygon include/exclude areas</p> <p>Perspective configuration</p> <p>ONVIF Motion Alarm event</p>
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	
<b>Audio</b>		<p><b>Applications</b></p> <p>Included</p> <p>AXIS Object Analytics, AXIS Video Motion Detection</p> <p>Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a></p>
Audio streaming	Audio output via edge-to-edge technology	
Audio input/output	Two-way audio connectivity via optional accessories using portcast technology Network speaker pairing	<p><b>General</b></p> <p><b>Casing</b></p> <p>IP42 water- and dust-resistant (to comply with IP42, follow Installation Guide), IK08 impact-resistant, polycarbonate/ABS casing</p> <p>Encapsulated electronics</p> <p>Color: white NCS S 1002-B</p> <p>For repainting instructions, contact your Axis partner.</p>
<b>Network</b>		
Security	Password protection, IP address filtering, HTTPS <sup>b</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>b</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	
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>c</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)	<p><b>Sustainability</b></p> <p>57% recycled plastics, PVC free, BFR/CFR free</p>
<b>System integration</b>		
Application Programming Interface	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://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="http://onvif.org">onvif.org</a>	<p><b>Power</b></p> <p>Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2 Typical 3.6 W, max 4.2 W</p>
Event conditions	Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address	
		<p><b>Connectors</b></p> <p>RJ45 10BASE-T/100BASE-TX PoE</p>
		<p><b>Storage</b></p> <p>Support for microSD/microSDHC/microSDXC card</p> <p>Support for SD card encryption (AES-XTS-Plain64 256bit)</p> <p>Recording to network-attached storage (NAS)</p> <p>For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a></p>
		<p><b>Operating conditions</b></p> <p>0 °C to 45 °C (32 °F to 113 °F) Humidity 10–85% RH (non-condensing)</p>
		<p><b>Storage conditions</b></p> <p>–40 °C to 65 °C (–40 °F to 149 °F) Humidity 5–95% RH (non-condensing)</p>
		<p><b>Approvals</b></p> <p>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,</p> <p>Safety IEC/EN/UL 62368–1</p> <p>Environment IEC 60068–2–X, IEC/EN 60529 IP42, IEC/EN 62262 Class IK08</p> <p>Network NIST SP500–267</p>
		<p><b>Dimensions</b></p> <p>Height: 56 mm (2.2 in) ø 101 mm (4.0 in)</p>
		<p><b>Weight</b></p> <p>150 g (0.33 lb)</p>

<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license	<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Japanese, Korean, Portuguese, Simplified Chinese, Traditional Chinese
<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>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</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>		a. <i>Reduced frame rate in Motion JPEG</i> b. <i>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).</i>

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