

## 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

| Camera                            |                                                                                                                                                                                                                                                                                                                                                                                                                                          | Scheduled and recurring: schedule<br>Video: average bitrate degradation, tampering                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Image sensor                      | 1/2.7" progressive scan RGB CMOS                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Event actions</b>                                                                                                                                                                                                                                                              | Notification: HTTP, HTTPS, TCP and email<br>Record video: SD card and network share<br>MQTT: publish<br>Pre- and post-alarm video or image buffering for recording or upload<br>Record video: SD card and network share<br>SNMP traps: send, send while the rule is active<br>Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email<br>External output activation via accessories using portcast technology                                  |  |
| Lens                              | 2.4 mm, F2.1<br>Horizontal field of view: 130°<br>Vertical field of view: 93°<br>Fixed iris, IR corrected                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Day and night                     | Automatically removable infrared-cut filter                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Minimum illumination              | With Lightfinder:<br>Color: 0.19 lux at 50 IRE F2.1<br>B/W: 0.03 lux at 50 IRE F2.1                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Shutter speed                     | 1/38500 s to 1/5 s                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Camera angle adjustment           | Pan: ±175°<br>Tilt: ±80°<br>Rotation: ±175°<br>Can be directed in any direction and see the wall/ceiling                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| System on chip (SoC)              |                                                                                                                                                                                                                                                                                                                                                                                                                                          | Analytics                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Model                             | CV25                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>AXIS Object Analytics</b>                                                                                                                                                                                                                                                      | Object classes: humans, vehicles (types: cars, buses, trucks, bikes)<br>Scenarios: line crossing, object in area, crossline counting, occupancy in area, time in area<br>Up to 10 scenarios<br>Metadata visualized with color-coded bounding boxes<br>Polygon include/exclude areas<br>Perspective configuration<br>ONVIF Motion Alarm event                                                                                                                            |  |
| Memory                            | 1024 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<br>H.265 (MPEG-H Part 2/HEVC) Main Profile<br>Motion JPEG                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Resolution                        | 2688x1512 (4 MP) to 320x240                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Metadata</b>                                                                                                                                                                                                                                                                   | Object data: Classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates<br>Attributes: Vehicle color, upper/lower clothing color, confidence, position<br>Event data: Producer reference, scenarios, trigger conditions                                                                                                                                                                                                                       |  |
| 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<br>Axis Zipstream technology in H.264 and H.265<br>Controllable frame rate and bandwidth<br>VBR/MBR H.264/H.265<br>Average bitrate                                                                                                                                                                                                                           | <b>Applications</b>                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Multi-view streaming              | Up to 2 individually cropped out view areas in full frame rate                                                                                                                                                                                                                                                                                                                                                                           | Included<br>AXIS Object Analytics, AXIS Video Motion Detection<br>Supported<br>AXIS People Counter<br>AXIS Queue Monitor<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 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<br>Rotation: 0°, 90°, 180°, 270°, including Corridor Format                                                                                                                                                                    | Cybersecurity                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Pan/Tilt/Zoom                     | Digital PTZ                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Edge security</b>                                                                                                                                                                                                                                                              | Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption<br>Hardware: Axis Edge Vault cybersecurity platform<br>Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit) |  |
| Audio                             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Audio streaming                   | Audio output via edge-to-edge technology                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Network security</b>                                                                                                                                                                                                                                                           | IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering                                                                                                                                                                                                                                                                                                                 |  |
| Audio input/output                | Audio features through portcast technology: two-way audio connectivity, voice enhancer<br>Network speaker pairing                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Network                           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Documentation</b>                                                                                                                                                                                                                                                              | AXIS OS Hardening Guide<br>Axis Vulnerability Management Policy<br>Axis Security Development Model<br>AXIS OS Software Bill of Material (SBOM)<br>To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a><br>To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>                                                      |  |
| Network protocols                 | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, 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                |                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>General</b>                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Application Programming Interface | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a><br>One-click cloud connection<br>ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="https://onvif.org">onvif.org</a>                                                                                                              | <b>Casing</b>                                                                                                                                                                                                                                                                     | IP42 water- and dust-resistant (to comply with IP42, follow Installation Guide), IK08 impact-resistant, polycarbonate/ABS casing<br>Encapsulated electronics<br>Color: white NCS S 1002-B<br>For repainting instructions, contact your Axis partner.                                                                                                                                                                                                                    |  |
| 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<br>Edge storage: recording ongoing, storage disruption, storage health issues detected<br>I/O: manual trigger, virtual input, digital input via accessories using portcast technology<br>MQTT: subscribe | <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<br>Typical 3.6 W, max 4.2 W                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Connectors</b>                                                                                                                                                                                                                                                                 | RJ45 10BASE-T/100BASE-TX PoE<br>Audio: Audio and I/O connectivity via portcast technology                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Storage</b>                                                                                                                                                                                                                                                                    | Support for microSD/microSDHC/microSDXC card<br>Support for SD card encryption (AES-XTS-Plain64 256bit)                                                                                                                                                                                                                                                                                                                                                                 |  |

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|                             | Recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>                                                                                                                                                                                                                                                                                                            |
| <b>Operating conditions</b> | 0 °C to 45 °C (32 °F to 113 °F)<br>Humidity 10–85% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage conditions</b>   | –40 °C to 65 °C (–40 °F to 149 °F)<br>Humidity 5–95% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Approvals</b>            | EMC<br>ICES-3(A)/NMB-3(A), EN 55032 Class A, EN 55035,<br>EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A,<br>ICES-003 Class A, VCCI Class A, KS C 9835, KS C 9832 Class A,<br>RCM AS/NZS CISPR 32 Class A,<br>Safety<br>IEC/EN/UL 62368-1, IS 13252<br>Environment<br>IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14,<br>IEC 60068-2-27, IEC/EN 60529 IP42, IEC/EN 62262 Class IK08<br>Network<br>NIST SP500-267 |
| <b>Dimensions</b>           | Height: 56 mm (2.2 in)                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                  |                                                                                                                                                                                        |
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|                                  | 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<br>Black casing<br>Smoked dome<br>AXIS Surveillance microSDXC™ Card<br>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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese   |
| <b>Warranty</b>                  | 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>                                                                                                          |

a. Reduced frame rate in Motion JPEG