AXIS M2036-LE Bullet Camera

Affordable camera with deep learning

Ideal for tough environments and rough weather, AXIS M2036-LE delivers Quad HD 1440p/4 MP. With a deep learning processing unit, it enables unique opportunities for analytics based on deep learning on the edge. AXIS Object Analytics offers detection and classification of humans, vehicles, and types of vehicles. And Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network. This IK08-rated camera offers flexible and cost-efficient installation including support for PoE. Edge-to-edge technology allows for smart pairing with Axis Speakers. Plus, a spacious, sealed back box ensures secure cable management.

> **Quad HD 1440p/4 MP**
> **Compact, lightweight design**
> **Analytics with deep learning**
> **Zipstream supporting H.264/H.265**
> **Outdoor-ready with IR illumination**

AXIS M2036-LE Bullet Camera

Variants

AXIS M2036-LE
AXIS M2036-LE Black

Camera

Image sensor
1/2.7" progressive scan RGB CMOS

Lens
Fixed iris, fixed focus, IR corrected
2.4 mm, F2.1
Minimum focus distance: 0.5 m
4 MP (16:9)
Horizontal field of view: 130°
Vertical field of view: 71°
4 MP (4:3)
Horizontal field of view: 109°
Vertical field of view: 81°

Day and night
Automatically removable infrared-cut filter

Minimum illumination
With Lightfinder
Color: 0.18 lux at 50 IRE, F2.1
B/W: 0.04 lux at 50 IRE, F2.1
0 lux with IR illumination on

Shutter speed
1/38500 s to 1/5 s

System on chip (SoC)

Model
CV25

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
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution
2304x1728 to 320x240 (4:3)
2688x1512 to 640x360 (16:9)

Frame rate
Up to 25/30 fps with power line frequency
50/60 Hz in H.264 and H.265[1]

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/ABR/MBR H.264/H.265

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 115 dB depending on scene, text
and image overlay, privacy masks, mirroring of images
Rotation: 0°, 90°, 180°, 270°, including Corridor Format

Pan/Tilt/Zoom
Digital PTZ

Audio

Audio output
Audio features through portcast technology: two-way
audio connectivity, voice enhancer
Smart pairing with Axis speakers via edge-to-edge
technology

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1. *Reduced frame rate in Motion JPEG*

Network

Network protocols
IPv4, IPv6 USGv6, HTTP, HTTPS[2], HTTP/2, TLS[2], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, MQTT v3.1.1

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
I/O: manual trigger
Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, network lost, new IP address, system ready
Video: average bitrate degradation, tampering, day-night mode
Application: motion alarm, VMD 4, VMD3
Scheduled and recurring: scheduled event
Edge storage: recording ongoing, storage disruption, storage health issues detected
MQTT subscribe

Event actions
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
Notification: email, HTTP, HTTPS, TCP and SNMP trap
Overlay text, day/night mode
MQTT publish

Built-in installation aids
Pixel counter
Level grid

Analytics

Applications
Included
AXIS Live Privacy Shield[3], AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics, AXIS Video Motion Detection
Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

AXIS Object Analytics
Object classes: humans, vehicles (types: cars, buses, trucks, bikes)
Scenarios: line crossing, object in area, crossline counting, occupancy in area, time in area
Up to 10 scenarios
Other features: triggered objects visualized with color-coded bounding boxes
Polygon include/exclude areas
Perspective configuration
ONVIF Motion Alarm event

AXIS Scene Metadata
Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates
Object attributes: vehicle color, upper/lower clothing color, confidence, position

Cybersecurity

Edge security
Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption
Hardware: Axis Edge Vault cybersecurity platform 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)

Network security
IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[2], IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS[2], TLS v1.2/v1.3[2], Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

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Documentation

AXIS OS Hardening Guide
Axis Vulnerability Management Policy
Axis Security Development Model
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
IP66-/IP67-, NEMA 4X- and IK08-rated
Aluminum and plastic casing
White: White NCS S 1002-B
Black: Black NCS S 9000-N

Sustainability
PVC free, BFR/CFR free

Power
Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Typical 5 W, max 12.95 W

Connectors
RJ45 10BASE-T/100BASE-TX PoE

IR illumination
OptimizedIR with power-efficient, long-life 855 nm IR LEDs
Range of reach 20 m (65.6 ft) or more depending on the scene

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
-30 °C to 50 °C (-22 °F to 122 °F)
Start-up temperature: -30 °C (-22 °F)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Humidity: 10–100% RH (condensing)

Storage conditions
-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5–95% RH (non-condensing)

Approvals
EMC
CISPR 24, CISPR 35, EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN32 Class A, KC KN35, RCM AS/NZS CISPR 32 Class A, VCCI Class A
Safety
IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 60950-22, CAN/CSA-C22.2 No. 60950-22, IEC 62471, 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/IP67, IEC/EN 62262 IK08, NEMA 250 Type 4X, NEMA TS 2 (2.2.7–2.2.9)
Network
NIST SP500-267

Cybersecurity
ETSI EN 303 645

Dimensions
Length: 170 mm (6.7 in)
ø 101 mm (4.0 in)

Weight
491 g (1.1 lb)

Included accessories
Installation guide, Windows® decoder 1-user license, Torx® L-key, connector guard
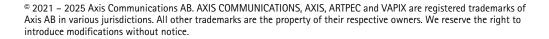
Optional accessories
AXIS T94B03L Recessed Mount
AXIS T94B02D Pendant Kit
AXIS T94B01P Conduit Back Box
AXIS T94B02M J-Box/Gang Box Plate
AXIS T94 mounts for various installations
AXIS Surveillance Cards
For more accessories, see *axis.com*

Video management systems
Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at *axis.com/vms*.

Languages
English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

AXIS®
COMMUNICATIONS

Warranty

5-year warranty, see *axis.com/warranty*