

Datenblätter Verkehr

AXIS M2035-LE Bullet Camera

Affordable camera with deep learning

Ideal for tough environments and rough weather, AXIS M2035-LE delivers HDTV in 1080p. 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. Available in two lens alternatives, this IK08-rated camera offers flexible and cost-efficient installation including PoE. Edge-to-edge technology allows for smart pairing with Axis speakers. Plus, a spacious, sealed back box ensures secure cable management.

- > [HDTV1080p](#)
- > [Compact, lightweight design](#)
- > [Analytics with deep learning](#)
- > [Zipstream supporting H.264/H.265](#)
- > [Outdoor-ready with IR illumination](#)



AXIS M2035-LE Bullet Camera

Variants

AXIS M2035-LE
AXIS M2035-LE Black
AXIS M2035-LE 8 mm
AXIS M2035-LE 8 mm Black

Camera

Image sensor

1/2.9" progressive scan RGB CMOS

Lens

Fixed iris, fixed focus, IR corrected
3.2 mm, F1.4
Horizontal field of view: 101°
Vertical field of view: 54°
Minimum focus distance: 1.2 m
8mm:
7.5 mm, F1.6
Horizontal field of view: 39°
Vertical field of view: 22°
Minimum focus distance: 3 m

Day and night

Automatically removable infrared-cut filter

Minimum illumination

With Lightfinder

Color: 0.16 lux at 50 IRE, F1.4
B/W: 0.03 lux at 50 IRE, F1.4
0 lux with IR illumination on
8mm:
Color: 0.17 lux at 50 IRE, F1.6
B/W: 0.03 lux at 50 IRE, F1.6
0 lux with IR illumination on

Shutter speed

1/19000 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)

1. Reduced frame rate in Motion JPEG

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles
H.265 (MPEG-H Part 2/HEVC)
Motion JPEG

Resolution

1280x960 to 320x240 (4:3)
1920x1080 to 640x360 (16:9)

Frame rate

Up to 25/30 fps with power line frequency
50/60 Hz in H.264 and H.2651

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

Network

Network protocols

IPv4, IPv6 USGv6, HTTP, HTTPS2, HTTP/2, TLS2, 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, 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, AXIS Object Analytics, AXIS Scene Metadata, 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/HSTS2, TLS v1.2/v1.32, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

2. 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).

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

Optimized IR 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

Warranty

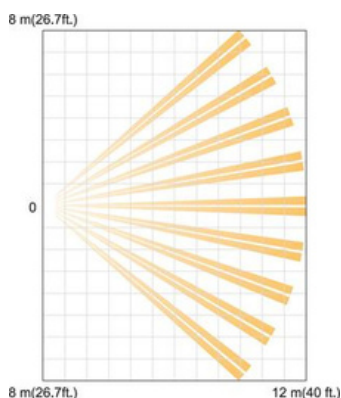
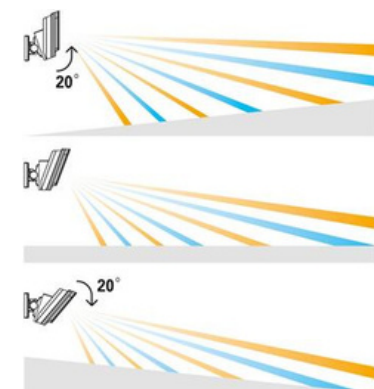
5-year warranty, see axis.com/warranty



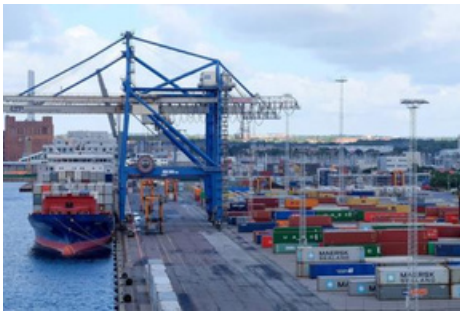
Der SHX12AM-L ist ein Dual Außensensor mit einem Erkennungsradius von 90°, welcher an einer Außenwand oder an einem Mast montiert werden kann. Bei diesem Sensor wird als Erkennungsmethode sowohl Infrarot passiv als auch Kurzwelle angewendet, der Sensor ist zusätzlich mit „Anti-Masking-Technologie“ ausgestattet.

Der SHX12AM-L arbeitet zusätzlich mit einer digitalen Dreischichterkennung, es müssen alle PIR-Erkennungszonen gleichzeitig gekreuzt werden, um einen Alarm auszulösen. Dadurch wird praktisch verhindert, dass kleinere Tiere versehentlich erkannt werden.

- sichere Überwachung von Außenbereichen mit
- flexiblem Erkennungsmuster, einstellbar auf 5 Bereiche von 2,5 m bis 12 m
- SMDA-Logik zum erweiterten Ausgleich von Temperaturschwankungen und Umgebungsgeräuschen
- einfache Anbindung / Verbindung an jedes öffentliche oder private LoRaWAN™ -Netzwerk
- Installation / Konfiguration über Bluetooth möglich
- Benachrichtigung über Feldmeldungen in Echtzeit inklusive Gerätestatus
- „Anti-Masking-Technologie“ – Meldung der Sabotage durch Besprühen oder Abdecken mit den unterschiedlichsten Materialien / Sprays oder bei Aufbruch
- Informationen zu Temperatur und Batteriestand abrufbar
- Batteriebetrieben, keine extra Stromzufuhr oder Anbindung ans Internet erforderlich
- doppelt leitende Abschirmung gegen helle Lichtstörungen
- SHX12AM-L in Massiv- und Konfigurationsvarianten
- Datenverschlüsselung AES-128 im LoRaWAN™



Technische Detail	
Erkennungssart	Infrarot passiv
Erfassungsbereich	im 85° Winkel einstellbar bis 12 m
Erkennungszonen	94
Sensorempfindlichkeit bei Temperaturschwankungen	2,0°C (3,6°F) bei 0,6m/sec
Sensorempfindlichkeit bei Bewegung	Bewegung 0,3 bis 1,5 m/sec
LED-Anzeige	ja / rot und gelb, je nach Zustand
Manipulationsschutz	Ja
Schutz vor Fehlalarm	Ja
Stromversorgung	3x LS14500 Lithium Batterie 3,6 Volt
Batterielebensdauer	2 – 5 Jahre (Nutzungsabhängig)
Temperaturbereich	Betrieb -20°C bis +60°C
Umgebungsfeuchtigkeit	95% maximal
Abmessungen	H 205 mm x B 99 mm x T 266 mm
Gewicht	650g
Zertifikate	CE, IP55



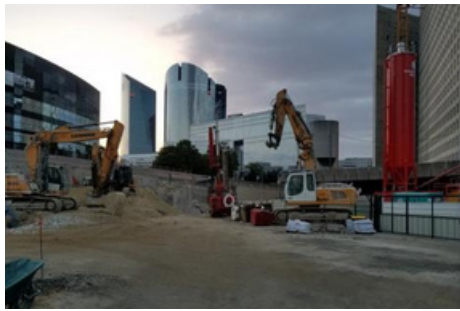
Sicherung von Industriebereichen



Zugangsüberwachung



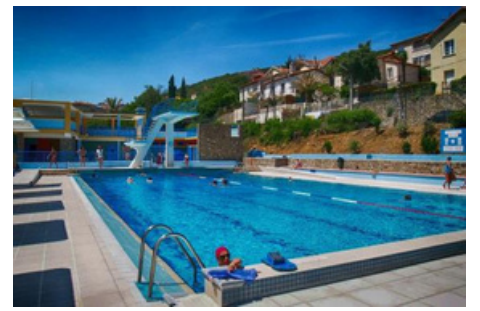
Gebäude überwachen



Baustellen sichern



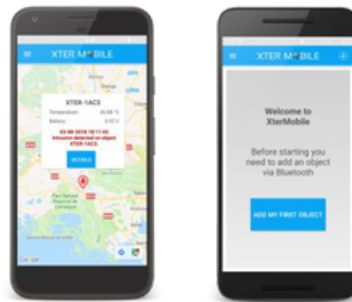
Wohneigentum schützen



Sportanlagen überwachen

XTERMIBILE APPLIKATION

XTERMOBILE ist eine optionale mobile Anwendung, mit der Sie unterwegs alle am LoRaWAN™ angeschlossenen Geräte über den Xter-Works Cloud-Service verwalten können. Die APP bietet in Echtzeit Benachrichtigungen, Protokolle, Berichte und Nachverfolgung aller Ereignisse. Zusätzlich ermöglicht die APP eine einfache Verbindung und Installation aller Geräte über Bluetooth, dafür ist kein Internet- zugang zwingend erforderlich.



Die APP ist für
Android and iOS verfügbar

Eigenschaften der APP

- Benachrichtigungen und Meldungen in Echtzeit
- Bericht über Ereignisse in Echtzeit
- Geräteüberwachung und -steuerung
- Informationen zum Batteriestand und zur Temperatur
- Logische Verknüpfungen zwischen Geräten
- Verwalten von Gruppen mit mehreren Geräten
- Erweiterte Gerätekonfiguration für Pro-Benutzerkonten
- Geografische Lokalisierung der Sensoren mit LoRaWAN™
- Ortung des Gerätes mittels GPS Mobile
- Einfache Installation von neuen Geräten per Bluetooth

Verlauf einer Meldung

