

## AXIS M1075-L Box Camera

Fully featured HDTV 1080p with deep learning

AXIS M1075-L offers excellent two-way audio communication and an IR-corrected lens to deliver professional-quality video both day-and-night. It includes a tally LED to indicate video streaming or recording. And, a passive infrared (PIR) sensor can detect movement even in total darkness. This compact camera includes a deep learning processing unit enabling advanced features and powerful analytics based on deep learning on the edge. Built-in cybersecurity features prevent unauthorized access and safeguard your system. Furthermore, it includes a HDMI port and with support for Session Initiation Protocol (SIP), it's easy to integrate with IP-systems. Optional wireless kit available.

- > [Day-and-night with IR illumination](#)
- > [Built-in privacy features](#)
- > [PIR sensor for motion detection](#)
- > [Two-way audio communication](#)
- > [HDMI output](#)



# AXIS M1075-L Box Camera

## Camera

### Image sensor

1/2.9" progressive scan RGB CMOS

### Lens

Fixed focal length, 3.16 mm, F2.0  
Horizontal field of view: 103°  
Vertical field of view: 55°  
Fixed iris, IR corrected

### Day and night

Automatically removable infrared-cut filter

### Minimum illumination

Color: 0.18 lux at 50 IRE, F2.0  
B/W: 0.04 lux at 50 IRE, F2.0  
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)

## 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

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

### Frame rate

Up to 25/30 fps (50/60 Hz) with H.264 and H.265<sup>1</sup> in all resolutions

### 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

### Image settings

Saturation, contrast, brightness, sharpness, WDR: up to 120 dB depending on the scene, white balance, day/night threshold, exposure mode, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic overlay, polygon privacy masks

## Audio

### Streaming

Two-way, full duplex  
Echo cancellation and voice enhancer

### Encoding

24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz

### Input/output

Built-in microphones (can be disabled), built-in speaker  
74 dB-SPL (at 1 m / 39 in)

## Network

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>2</sup>, HTTP/2, TLS<sup>2</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>®</sup>, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, NTP, PTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SSH, SIP, LLDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

1. Reduced frame rate in Motion JPEG

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 (eay@cryptsoft.com).

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at [axis.com/developer-community](https://axis.com/developer-community).

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at [onvif.org](https://onvif.org)  
Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.

### Onscreen controls

Privacy masks  
Media clip  
IR illumination

### Event conditions

Audio: audio clip playing, audio detection  
Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, live stream active, network lost, new IP address, PIR sensor, system ready, within operating temperature  
Edge storage: recording ongoing, storage disruption, storage health issues detected  
I/O: digital input is active, digital output is active, manual trigger, virtual input is active  
MQTT: subscribe  
Scheduled and recurring: schedule  
Video: average bitrate degradation, day-night mode, tampering

### Event actions

Audio clips: play, stop  
Day-night mode: use day-night mode while the rule is active  
I/O: toggle I/O once, toggle I/O while the rule is active  
Illumination: use lights, use lights while the rule is active  
Images: FTP, HTTP, HTTPS, SFTP, email and network share  
MQTT: publish  
Notification: HTTP, HTTPS, TCP and email  
Overlay text: use overlay text, use overlay text while the rule is active  
Recordings: record video, record video while the rule is active  
SNMP trap messages: send, send while the rule is active  
Status LED: flash status LED, flash status LED while the rule is active  
Video clips: FTP, HTTP, HTTPS, SFTP, email and network share  
WDR mode: set WDR mode, set WDR mode while the rule is active

## Analytics

### Applications

#### Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS Live Privacy Shield, active tampering alarm

#### Supported

Support for AXIS Camera Application Platform enabling installation of third-party applications, see [axis.com/acap](https://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

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

## Approvals

### EMC

EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2

**Australia/New Zealand:** RCM AS/NZS CISPR 32 Class A

**Canada:** ICES-3(A)/NMB-3(A)

**Japan:** VCCI Class A

**Korea:** KS C 9832 Class A, KS C 9835

**USA:** FCC Part 15 Subpart B Class A

### Safety

CAN/CSA C22.2 No. 62368-1 ed. 3,

IEC/EN/UL 62368-1 ed. 3, IEC 62471 (exempt), 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

### Network

NIST SP500-267

### Cybersecurity

ETSI EN 303 645, BSI IT Security Label

## 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)<sup>3</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS<sup>3</sup>, TLS v1.2/v1.3<sup>3</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall  
With optional wireless dongle: WPA/WPA2-PSK, WPA/WPA2-Enterprise (EAP-TLS, EAP-PEAP/MSCHAPv2)

### 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](https://axis.com/support/cybersecurity/resources)  
To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

## General

### Casing

Aluminum and plastic casing  
Color: white NCS S 1002-B

### Sustainability

PVC free, 70% recycled plastics

### Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3  
Typical 5.4 W, max 12.95 W

### Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX PoE  
I/O: 4-pin 2.5 mm terminal block for 1 alarm input and 1 output (12 V DC output, max load 25 mA)  
USB, supported USB class: Vendor specific  
Micro-HDMI

### IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LED  
Range of reach 18 m (59 ft) or more depending on the scene

### Storage

Support for microSD/microSDHC/microSDXC card  
Support for SD card encryption (AES-XTS-Plain64 256bit)  
For SD card and NAS recommendations see [axis.com](https://axis.com)

### PIR sensor

Passive infrared (PIR) motion sensor  
Range: 7 m (23 ft)

### Operating conditions

0 °C to 35 °C (32 °F to 95 °F)  
Humidity 10–85% RH (non-condensing)

### Storage conditions

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

### Dimensions

105 x 60 x 93 mm (4.1 x 2.4 x 3.7 in)

### Weight

153 g (0.34 lb)

### Included accessories

Installation guide, Windows® decoder 1-user license, wall mount, terminal block connector

### Optional accessories

AXIS TM1901 Wireless Kit  
AXIS T8415 Wireless Installation Tool  
AXIS Surveillance Cards  
For more accessories, see [axis.com](https://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](https://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

3. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

## Warranty

5-year warranty, see [axis.com/warranty](https://axis.com/warranty)