

AXIS Q3538-LVE Dome Camera

Advanced 8 MP dome with deep learning

With superior 4K resolution, Lightfinder 2.0, Forensic WDR, and OptimizedIR, AXIS Q3538-LVE delivers outstanding image quality even in the harshest weather and environments. The IR-shielded dome prevents IR reflections ensuring clear, sharp video every time. Built on ARTPEC-8, it offers advanced features and powerful applications based on deep learning. For instance, AXIS Object Analytics comes preinstalled offering highly nuanced object classification. Enclosed in a metal casing, this robust camera features redundant power, sensors for intrusion- and shock detection, and built-in cybersecurity features such as Axis Edge Vault and a FIPS 140-2 level 2 certified Trusted Platform Module (TPM).

- > Superior image quality in 4K
- > Analytics with deep learning
- > IR-shielded dome to prevent reflections
- > Robust, metal casing
- > Built-in cybersecurity features



AXIS Q3538-LVE Dome Camera

Camera

Image sensor

1/1.2" progressive scan RGB CMOS

Lens

Varifocal, 6.2–12.9 mm, F1.6–2.9
Horizontal field of view: 103°–49°
Vertical field of view: 56°–28°
Varifocal, Remote focus and zoom, P-Iris control, IR corrected

Day and night

Automatically removable infrared-cut filter

Minimum illumination

Color: 0.07 lux at 50 IRE, F1.6
B/W: 0 lux at 50 IRE, F1.6

Shutter speed

1/66500 s to 2 s

Camera adjustment

Pan $\pm 180^\circ$, tilt -43 to $+80^\circ$, rotation $\pm 175^\circ$

System on chip (SoC)

Model

ARTPEC-8

Memory

2048 MB RAM, 8194 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

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

Resolution

Up to 3840x2160

Frame rate

With WDR: 25/30 fps with power line frequency 50/60 Hz
Without WDR: 50/60 fps with power line frequency 50/60 Hz

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
Low latency mode
Video streaming indicator

Multi-view streaming

Up to 8 individually cropped out view areas

Image settings

Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, electronic image stabilization, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, text and image overlay, dynamic text and image overlay, privacy masks, polygon privacy mask

Pan/Tilt/Zoom

Digital PTZ, optical zoom, preset positions
Limited guard tour, control queue, on-screen directional indicator
Tour recording (max 10, max duration 16 minutes each), guard tour (max 100)
2x optical zoom

Audio

Audio features

Automatic gain control
Speaker pairing

Audio streaming

Two-way, full duplex

Audio encoding

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

Audio input/output

External microphone input or line input (balanced or unbalanced), line output, digital audio input

Microphone power:

Microphone power 5V on tip, ring power 12V on ring, phantom power 12V on tip/ring

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

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 (O3C)

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T specification at onvif.org

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.

Onscreen controls

Electronic image stabilization
Day/night shift
Defogging
Wide dynamic range
Video streaming indicator
IR illumination
Heater

Edge-to-edge

Speaker pairing

Event conditions

Analytics, external input, supervised external input, edge storage events, virtual inputs through API

Audio: audio detection, audio clip playing

Call: state, state change

Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, shock detected, casing open, storage failure, system ready, within operating temperature

Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: digital input, manual trigger, virtual input

MQTT subscribe

MQTT: stateless

Scheduled and recurring: schedule

Video: tampering, average bitrate degradation, day-night mode, live stream open

Event actions

I/O: toggle I/O once, toggle I/O while the rule is active

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

Calls: end SIP call, make SIP call, answer call

MQTT publish

Overlay text, external output activation, play audio clip, zoom preset, day/night mode, make call, flash status LED, use lights, set defog mode, send MQTT publish message, set WDR mode

Built-in installation aids

Leveling assistant, straighten image, image grid, pixel counter

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics, AXIS Live Privacy Shield², AXIS Video Motion Detection

Supported

AXIS Perimeter Defender, AXIS License Plate Verifier
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).

2. Available for download

AXIS Object Analytics

Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)

Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area, time in area
Up to 10 scenarios

Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables

Polygon include/exclude areas

Perspective configuration

ONVIF Motion Alarm event

AXIS Image Health Analytics

Detection settings:

Tampering: blocked image, redirected image

Image degradation: blurred image, underexposed image

Other features: sensitivity, validation period

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

CISPR 35, EN 50121-4, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, 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

Taiwan:

Railway: IEC 62236-4

Safety

CAN/CSA-C22.2 No. 60950-22,

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1,

IEC/EN/UL 60950-22, IEC 62471, IS 13252

Environment

IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, ISO 20653 IP6K9K, IEC/EN 62262 IK10+ (50J), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS 140

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, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption

Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), 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)³, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS³, TLS v1.2/v1.3³, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

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-, IP6K9K-, NEMA 4X- and IK10+-rated

Polycarbonate hard coated dome

Aluminum and plastic casing, polycarbonate (PC) dome, sunshield (PC/ASA)

Color: white NCS S 1002-B

This product can be repainted

For repainting instructions of casing and impact on warranty, contact your Axis partner.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon)

3/4" (M25) conduit side entry

Sustainability

PVC free

3. 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).

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
Typical 9 W, max 23 W
10–28 V DC, typical 9 W, max 24 W

Connectors

Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE
DC input, 3.5 mm mic/line in, 3.5 mm line out
Terminal block for two configurable supervised inputs /
digital outputs (12 V DC output, max load 50 mA)

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR
LEDs
Range of reach 40 m (130 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](https://www.axis.com)

Operating conditions

–50 °C to 55 °C (–58 °F to 131 °F)
Maximum temperature according to NEMA TS 2 (2.2.7):
74 °C (165 °F)
Start-up temperature: –40 °C (–40 °F)
Humidity 10–100% RH (condensing)

Storage conditions

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

Dimensions

Height: 124 mm (4.9 in), 184 mm (7.3 in) including
weathershield
ø 183 mm (7.2 in)

Weight

2.1 kg (4.6 lb) including weathershield

Included accessories

Installation guide, Windows® decoder 1-user license,
drill hole template, terminal block connector for I/O,
RESISTORX® L-key, connector guard, cable gasket,
conduit adapter, mounting bracket, weathershield

Optional accessories

AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
AXIS TQ3807-E Dome Smoked, AXIS T94M01D Pendant
Kit
For more accessories, see [axis.com](https://www.axis.com)

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](https://www.axis.com/warranty)
