

AXIS Q3556-LVE Dome Camera

Advanced 4 MP AI-powered dome with audio analytics

Built on ARTPEC-9, this Al-powered camera offers 4 MP resolutions and delivers outstanding image quality even in the harshest weather and environments. The IR-shielded dome prevents IR reflections ensuring clear, sharp video every time. A deep learning processing unit lets you run advanced features and powerful analytics on the edge. For instance, it comes with AXIS Object Analytics preinstalled to detect and track objects and AXIS Audio Analytics will notify you even when there's no visual indication. This robust camera is both vandal- and impact-resistant. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and protects sensitive information from unauthorized access.

- > Outstanding image quality in 4 MP
- > Next-generation AI-powered analytics
- > IR-shielded dome to prevent reflections
- > AXIS Audio Analytics preinstalled
- > Built-in cybersecurity with Axis Edge Vault











AXIS Q3556-LVE Dome Camera

Camera

Variants

AXIS Q3556-LVE 10 mm AXIS Q3556-LVE 51 mm

Image sensor

1/1.8" progressive scan RGB CMOS Pixel size 2.9 µm

Lens

10 mm lens

Varifocal, 4.7–10, F1.1–1.2 Horizontal field of view: 101°–44° Vertical field of view: 54°–25°

Minimum focus distance: 0.50 m (1.64 ft)

2.2x optical zoom

P-Iris control, IR corrected, remote zoom and focus

51 mm lens

Varifocal, 13-51, F1.7-2.1 Horizontal field of view: 33°-9° Vertical field of view: 18°-5°

Minimum focus distance: 2.60 m (8.53 ft)

3.8x optical zoom

P-Iris control, IR corrected, remote zoom and focus

Day and night

Automatic IR-cut filter

Minimum illumination

10 mm lens

Color: 0.01 lux at 50 IRE, F1.1 B/W: 0 lux at 50 IRE, F1.1 0 lux with IR illumination on

51mm lens

Color: 0.04 lux at 50 IRE, F1.7 B/W: 0 lux at 50 IRE, F1.7 0 lux with IR illumination on

Shutter speed

1/49500 s to 2 s

Camera adjustment

10 mm lens

Pan $\pm 180^{\circ}$, tilt -42 to +80°, rotation $\pm 180^{\circ}$

51 mm lens

Pan $\pm 180^{\circ}$, tilt -42 to +89°, rotation $\pm 180^{\circ}$

System on chip (SoC)

Model

ARTPEC-9

Memory

4 GB RAM, 8 GB 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

AV1

Motion JPEG

Resolution

16:9: Up to 2688x1512 16:10: Up to 1280x800 4:3: Up to 2016x1512

Frame rate

With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all

resolutions

No WDR: Up to 100/120 fps (50/60 Hz) in all

resolutions

Video streaming

Up to 20 unique and configurable video streams¹
Axis Zipstream technology in H.264, H.265 and AV1
Controllable frame rate and bandwidth

VBR/ABR/MBR H.264/H.265/AV1

Low latency mode

Video streaming indicator

Signal-to-noise ratio

>55 dB

WDR

Forensic WDR: Up to 120 dB depending on scene

^{1.} We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.

Multi-view streaming

Up to 7 individually cropped out view areas

Noise reduction

Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)

Image settings

Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure mode, exposure zones, defog, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic text and image overlay, overlay widget, privacy masks, lock aperture, target aperture

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0

Pan/Tilt/Zoom

Digital PTZ, optical zoom, preset positions Limited guard tour, control queue, on-screen directional

Tour recording (max 10, max duration 16 minutes each), quard tour (max 100)

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS², HTTP/ 2, TLS², QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/ RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/ v6, ARP, SSH, 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®, metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developercommunity.

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications 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

Autofocus Image stabilization Day/night shift Defoq Wide dynamic range Video streaming indicator IR illumination Privacy masks Heater

Event conditions

Application

Audio analytics: audio level above threshold, glass break detected, scream detected, shout detected Device status: above/below/within operating temperature, casing open, fan failure, IP address blocked/removed, live stream active, network lost, new IP address, ring power overcurrent protection, shock detected, system ready

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

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

MQTT: stateless

Scheduled and recurring: schedule

Video: average bitrate degradation, day-night mode

Event actions

Day-night mode

Guard tour

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

LEDs: flash status LED, flash status LED while the rule is active

MQTT: publish

Notification: HTTP, HTTPS, TCP and email

Overlay text

PTZ: PTZ preset, start/stop quard tour

Pre- and post-alarm video or image buffering for

recording or upload

Recordings: SD card and network share

Security: erase configuration

SNMP traps: send, send while the rule is active Images or video clips: FTP, SFTP, HTTP, HTTPS, network

share and email WDR mode

Built-in installation aids

Pixel counter, remote zoom and focus, straighten image, level grid, leveling assistant

^{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).

Analytics

Applications

Included

AXIS Object Analytics, AXIS Image Health Analytics, AXIS Audio Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield, 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

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, tailgating detection, PPE monitoring^{BETA}, motion in area, motion line crossing

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 Audio Analytics

Features: adaptive audio detection, audio classification Audio classes: scream, shout, glass break, speech Event metadata: audio detections, classifications

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 Audio data: audio level

Approvals

Product markings

UL, FCC, ICES, CE, KC, VCCI, RCM, WEEE

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, 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(A)/NMB(A)

Japan: VCCI Class A

Korea: KS C 9832 Class A, KS C 9835 USA: FCC Part 15 Subpart B Class A

Railway: IEC 62236-4

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt

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/IP69, IEC/EN 62262 IK10, ISO 21207 (Method B), ISO 20653 IP6K9K, NEMA 250 Type 4X

Network

NIST SP500-267

Cybersecurity

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)

Hardware: Axis Edge Vault cybersecurity platform Secure keystore: Secure element (CC EAL 6+, FIPS 140-

3 Level 3), system-on-chip security (TEE)

Axis device ID, 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

^{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 (eay@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-, IP6K9K-, NEMA 4X- and IK10-rated Polycarbonate hard-coated dome Aluminum casing, weathershield (PC/ASA) Color: white NCS S 1002-B

For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) ³/₄" (M25) conduit side entries

Power

Power over Ethernet (PoE) IEEE/802.3at Type 2 Class 4, max 25.5 W, typical (heater off, IR off) 6.3 W 8–28 VDC, max 25.5 W, typical (heater off, IR off) 6.2 W Features: power meter

I/O functionality

I/O: Terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max load 50 mA)

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/

1000BASE-T PoE

Power: DC input, terminal block I/O: 4-pin 2.5 mm terminal block

Sensor

Acoustic sensor

IR illumination

OptimizedIR with power-efficient, long-life 850 nm IR LEDs

10 mm lens

60 m (197 ft) or more depending on the scene 51 mm lens

70 m (230 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

Temperature: -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

Humidity: 10-100% RH (non-condensing)

Storage conditions

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

Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

Effective Projected Area (EPA): 0.041 m² (0.44 ft²)

Weight

2360 g (5.2 lb)

Box content

Camera, weathershield, installation guide, terminal block connectors, connector guard, cable gaskets, owner authentication key

System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator Available at 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

Part numbers

Available at axis.com/products/axis-q3556-lve#part-numbers

Optional accessories

Installation

AXIS T8415 Wireless Installation Tool

Mounting

AXIS TQ3204-E Recessed Mount AXIS TQ3103-E Pendant Kit

Storage

AXIS Surveillance Cards

AXIS TQ3818-E Dome Smoked For more accessories, go to axis.com/products/axisq3556-lve#compatible-products

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709
RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu*

Materials

Renewable carbon-based plastic content: 38% (biobased: 34%, carbon capture based: 4%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to axis.
com/about-axis/sustainability

Environmental responsibility

axis.com/environmental-responsibility

Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

10 mm lens

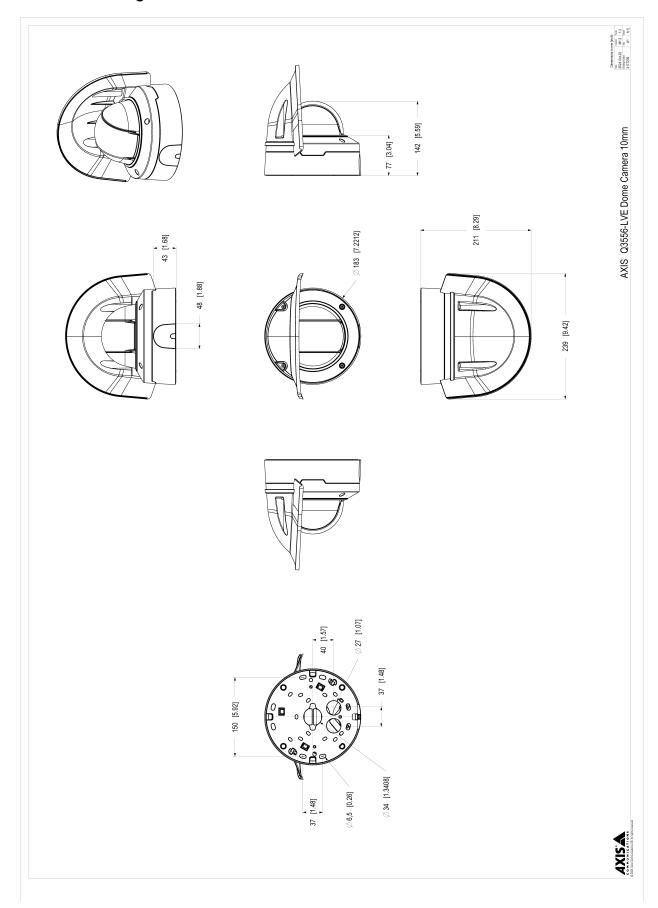
| | DORI definition | Distance (wide) | Distance (tele) |
|-----------|---------------------|-----------------|-----------------|
| Detect | 25 px/m (8 px/ft) | 65 m (213 ft) | 141 m (463 ft) |
| Observe | 63 px/m (19 px/ft) | 26 m (85 ft) | 56 m (184 ft) |
| Recognize | 125 px/m (38 px/ft) | 13 m (43 ft) | 28 m (92 ft) |
| Identify | 250 px/m (76 px/ft) | 6.4 m (21 ft) | 14 m (46 ft) |

51 mm lens

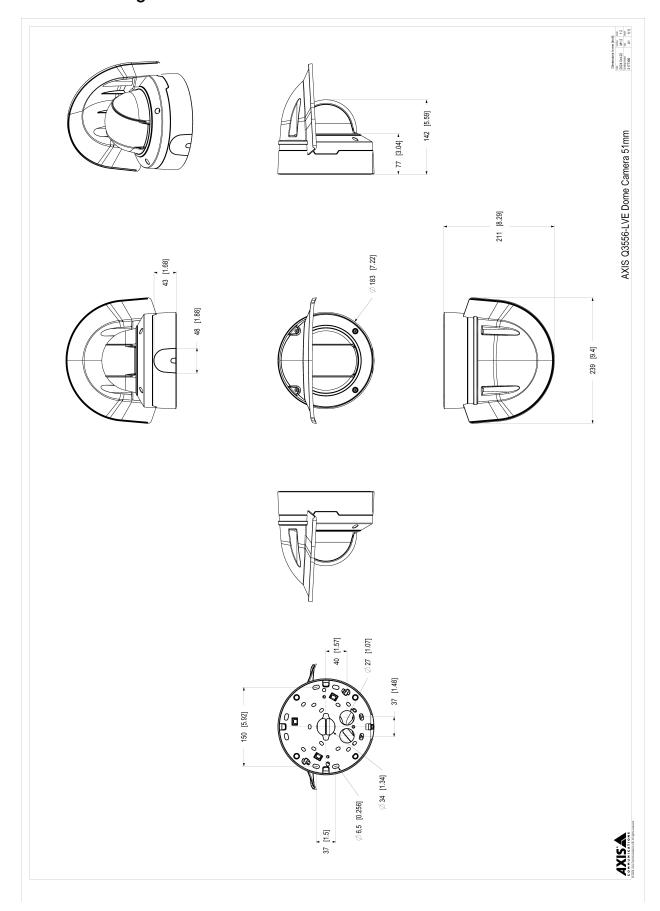
| | DORI definition | Distance (wide) | Distance (tele) |
|-----------|---------------------|-----------------|-----------------|
| Detect | 25 px/m (8 px/ft) | 183 m (600 ft) | 698 m (2290 ft) |
| Observe | 63 px/m (19 px/ft) | 73 m (240 ft) | 277 m (909 ft) |
| Recognize | 125 px/m (38 px/ft) | 37 m (121 ft) | 140 m (459 ft) |
| Identify | 250 px/m (76 px/ft) | 18 m (59 ft) | 70 m (230 ft) |

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

Dimension drawing



Dimension drawing



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Highlighted capabilities

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to Al-based algorithms and behavioral conditions, it analyzes the scene and their spatial behavior within – all tailored to your specific needs. Scalable and edge-based, it requires minimum effort to set up and supports various scenarios running simultaneously.

AXIS Audio Analytics

AXIS Audio Analytics uses adaptive audio detection to generate alarms on sudden increases in sound volume. With Al-based classifiers, it can detect screaming and shouting. You can also get extra confirmation by combining AXIS Audio Analytics with video analytics. This smart application only transmits metadata, ensuring privacy is safeguarded. A core feature of AXIS OS, AXIS Audio Analytics comes preinstalled at no extra cost.

AXIS Live Privacy Shield

Remotely monitor activities both indoors and outdoors while safeguarding privacy in real-time.

With Al-based dynamic masking you can choose what to mask or blur while addressing rules and regulations protecting privacy and personal data. The application enables masking of moving and still objects such as humans, license plates, or backgrounds. The application works in real-time and on both live and recorded video streams.

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, secure boot ensures that a device can boot only with signed OS, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the secure keystore is the critical building-block for protecting cryptographic information used for communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common certified hardware-based Criteria or FIPS 140 cryptographic computing module.

Furthermore, signed video ensures that video evidence can be verified as untampered. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream allowing video to be traced back to the Axis camera from where it originated.

To read more about Axis Edge Vault, go to axis. com/solutions/edge-vault.

Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.

OptimizedIR

Axis OptimizedIR provides a unique and powerful combination of camera intelligence and sophisticated LED technology, resulting in our most advanced camera-integrated IR solutions for complete darkness. In our pan-tilt-zoom (PTZ) cameras with OptimizedIR, the IR beam automatically adapts and becomes wider or narrower as the camera zooms in and out to make sure that the entire field of view is always evenly illuminated.

