AXIS Q3538-SLVE Dome Camera

Stainless steel 8 MP dome for corrosive areas

Enclosed in marine-grade stainless steel (SS 316L), DNV-certified casing, this robust camera is resistant to the corrosive effects of sea water and cleaning chemicals. Plus, it's protected against redirection, defocusing, and impacts and can withstand wide temperatures ranges. It offers outstanding image quality in superior 4K resolution under any light conditions. Featuring a deep learning processing unit (DLPU), it supports advanced analytics based on deep learning on the edge. And, thanks to AXIS Object Analytics, it can detect and classify people, and different types of vehicles—all tailored to specific needs. Furthermore, built-in cybersecurity features help safeguard your system.

> **Ideal for corrosive and harsh conditions**
> **Marine-grade stainless steel casing**
> **Outstanding image quality in 4K**
> **Support for analytics with deep learning**
> **Built-in cybersecurity features**

AXIS Q3538-SLVE Dome Camera

Camera

Image sensor
1/1.2" progressive scan RGB CMOS
Pixel size 2.9 µm

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 ±180°, tilt -43 to +80°, rotation ±175°

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
16:9: 3840x2160 to 160x90
16:10: 1280x800 to 160x100
4:3: 2880x2160 to 160x120

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

WDR
Forensic WDR: Up to 120 dB depending on scene

Multi-view streaming
Up to 8 individually cropped out view areas

Image settings
Saturation, contrast, brightness, sharpness, 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

Image processing
Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR

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
Configurable duplex:
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, HTTPS[1], HTTP/
2, TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB,
SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-
II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, 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®,
metadata and AXIS Camera Application Platform
(ACAP); specifications at *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*

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 Shield[2],
AXIS Video Motion Detection, active tampering alarm,
audio detection
Supported
AXIS License Plate Verifier
Support for AXIS Camera Application Platform enabling
installation of third-party applications, see *axis.com/
acap*

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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 (eay@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, 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 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

Product markings
BIS, CE, DNV, NSF, KC, RCM, UL/cUL, UKCA, VCCI, WEEE

Supply chain
TAA compliant

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
USA: FCC Part 15 Subpart B Class A
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 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 60529 IP67, IEC/EN 60529 IP68, ISO 20653 IP6K9K, IEC/EN 62262 IK11 (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

Certifications
DNV:
EMC B, enclosure C, humidity B, temperature D, vibration A
Certificate: TAA00003C6
NSF:
Certificate: C0759806

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/HSTS[3], TLS v1.2/v1.3[3], 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*

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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).

General

Casing
IP6K9K-, IP66-, IP67-, IP68- and NEMA 4X-rated, IK11 (50 joules) impact-resistant stainless steel casing
Polycarbonate hard-coated dome and dehumidifying membranes
Electropolished SS 316L stainless steel
Encapsulated electronics
Captive stainless steel screws

Mounting
Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon)
¾" (M25) conduit side entry

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

IR illumination
OptimizedIR 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*

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: 125 mm (4.9 in)
ø 195 mm (7.7 in)

Weight
2.2 kg (4.9 lb)

Box content
Installation guide, Windows® decoder 1-user license, drill template, terminal block connectors for DC and I/O, RESISTORX® L-key, connector guard, φ5-15mm cable gaskets, φ3-5mm cable gasket, mounting bracket, plugs

Optional accessories
AXIS TQ3807-E Dome Smoked
AXIS TQ3807-E Dome Clear
AXIS T91F61 Wall Mount
AXIS T91F67 Pole Mount
AXIS T94U02D Pendant Kit with weathershield
AXIS T94U01D Pendant Kit
AXIS Multicable B I/O Audio Power
AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
For more accessories, , go to *axis.com/products/axis-q3538-slve#accessories*

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-q3538-slve#part-numbers*
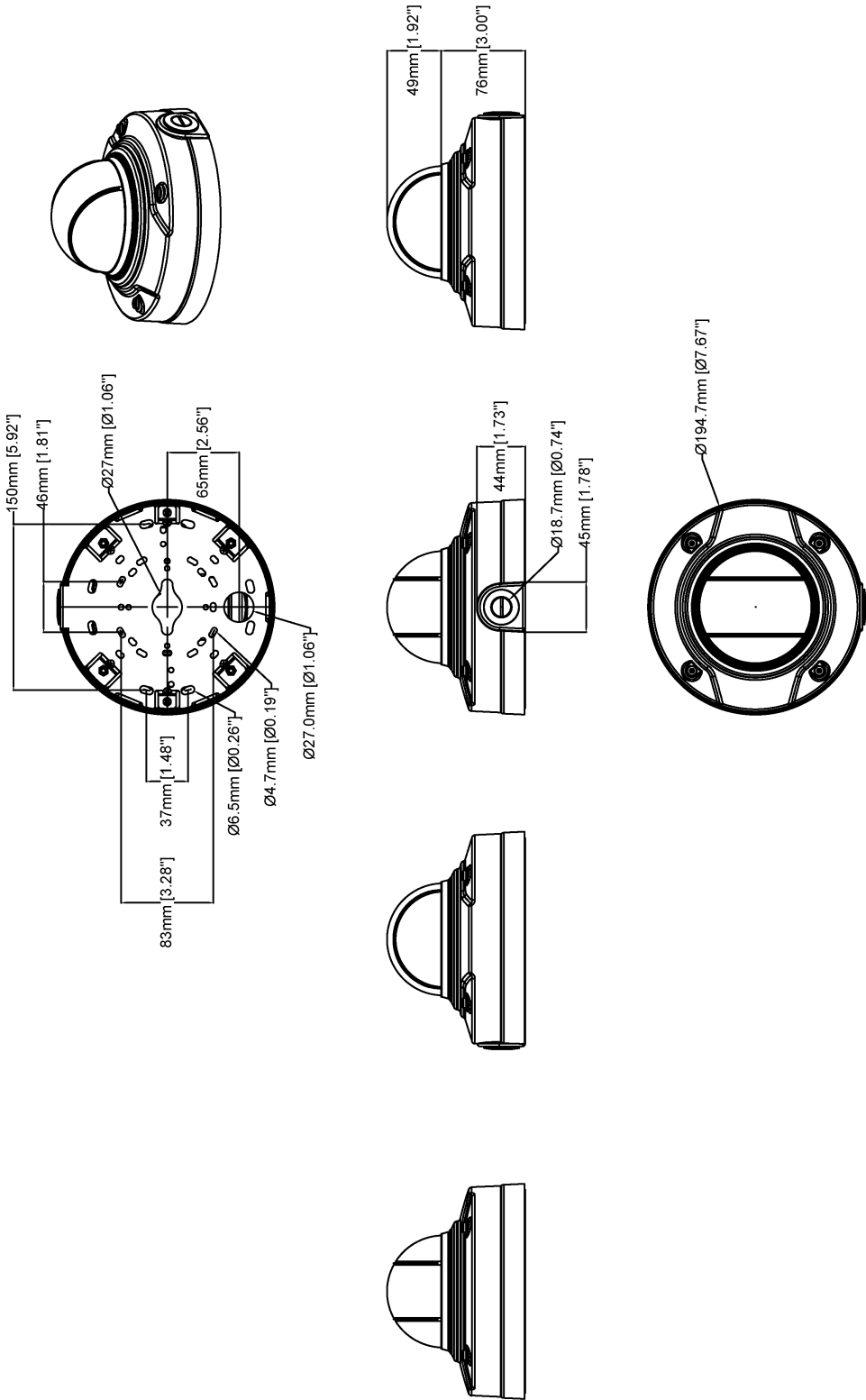
Sustainability

Substance control
PVC free
RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *axis.com/partner.*

Environmental responsibility
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global
Compact, read more at *unglobalcompact.org*

Dimension drawing

AXIS Q3538-SLVE Dome Camera

Dimensions:
- 49mm [1.92"]
- 76mm [3.00"]
- 150mm [5.92"]
- 46mm [1.81"]
- Ø27mm [Ø1.06"]
- 65mm [2.56"]
- 37mm [1.48"]
- 83mm [3.28"]
- Ø6.5mm [Ø0.26"]
- Ø4.7mm [Ø0.19"]
- Ø27.0mm [Ø1.06"]
- 44mm [1.73"]
- Ø18.7mm [Ø0.74"]
- 45mm [1.78"]
- Ø194.7mm [Ø7.67"]

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Created by		MF	Scale	1:5

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AXIS COMMUNICATIONS

Highlighted capabilities

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 secure 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 Criteria or FIPS 140 certified hardware-based 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.*

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

Lightfinder

The Axis Lightfinder technology delivers high-resolution, full-color video with a minimum of motion blur even in near darkness. Because it strips away noise, Lightfinder makes dark areas in a scene visible and captures details in very low light. Cameras with Lightfinder discern color in low light better than the human eye. In surveillance, color may be the critical factor to identify a person, an object, or a vehicle.

AXIS Object Analytics

AXIS Object Analytics is a preinstalled, multifeatured video analytics that detects and classifies humans, vehicles, and types of vehicles. Thanks to AI-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.

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.

For more information, see *axis.com/glossary*

AXIS®
C O M M U N I C A T I O N S