AXIS Q9307-LV Dome Camera

All-in-one audio-visual monitoring device

This all-in-one device combines sharp video, audio, actionable analytics, and LED indicators. With four built-in microphones and a built-in speaker, it supports two-way communication. It comes with coughing fit and stressed voice analytics adding an extra audible dimension to active incident management. AXIS Live Privacy Shield lets you remotely monitor activities while safeguarding privacy. And the LED indicators clearly show when the camera is recording or when audio is being used. This vandal-resistant, IK08-rated camera withstands daily wipe-downs with chemical detergents. Plus, with just one device to install, it offers cost-efficient one-drop installation.

- > 5 MP video with two-way audio
- > Preinstalled audio and video analytics
- > Remote monitoring while safeguarding privacy
- > Withstands chemical wipe-downs
- > Cost-efficient all-in-one device

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Camera

Image sensor	1/2.7" progressive scan RGB CMOS Pixel size 2.0 µm
Lens	Varifocal, 3–8 mm, F1.3 Horizontal field of view: 104°–40° Vertical field of view: 74°–29° Minimum focus distance: 1.0 m (3.3 ft) IR corrected, remote zoom and focus, P-Iris control
Day and night	Automatic IR-cut filter Hybrid IR filter
Minimum illumination	**Color:** 0.13 lux at 50 IRE, F1.3 **B/W:** 0 lux at 50 IRE, F1.3
Shutter speed	1/33500 s to 1/5 s
Camera angle adjustment	Pan ±190°, tilt -10 to +80°, rotation ±190°

System on chip (SoC)

Model	ARTPEC-8
Memory	2048 MB RAM, 8192 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:** 2592x1458 to 160x90 **16:10:** 1280x800 to 160x100 **4:3:** 2592x1944 to 160x120
Frame rate	25/30 fps with power line frequency 50/60 Hz
Video streaming	Up to 20 unique and configurable video streams[a] 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
Signal-to-noise ratio	>55 dB
WDR	Forensic WDR: Up to 120 dB depending on scene
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)
Multi-view streaming	Up to 2 individually cropped out view areas in full frame rate
Image settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping , exposure mode, exposure zones, defogging, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay, dynamic text and image overlay, polygon and mosaic privacy mask,target aperture, sensor roll
Image processing	Forensic WDR, Lightfinder 2.0, OptimizedIR
Pan/Tilt/Zoom	Digital PTZ, preset positions

Audio

Audio features	Spectrum visualizer[b] Voice enhancer Echo cancellation A set of audio clips and chimes is pre-installed on the device
Audio streaming	Configurable duplex: One-way (simplex, half duplex) Two-way (half duplex, full duplex)
Audio input	10-band graphic equalizer Built-in microphone x4
Audio output	Built-in 2.3 inches broadband dynamic cone speaker 87 dB SPL at 1 m/40 in (average for 250, 500, 1000, 2000, 4000 Hz)
Audio encoding	AAC-LC 8/16/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM, 48 kHz Configurable bitrate

Network

Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[c], HTTP/2, TLS[c], 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), IEEE 802.1X (EAP-TLS), IEEE 802.1AR

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*. ACAP includes Native SDK and Computer Vision SDK. One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at *onvif.org* Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
Video management systems	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms*
Onscreen controls	Day-night shift Defog WDR Video streaming indicator IR LED Privacy masks Media clip Siren and light
Event conditions	A set of conditions is pre-configured for this device Audio: audio detection, audio clip playing Call: state, state change Device status: above/below/within operating temperature, casing open, IP address blocked, IP address removed, live stream active, network lost, new IP address, system ready 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: stateless Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, tampering
Event actions	A set of actions is pre-configured for this device Audio: Play clip while rule is active Audio clips: play, stop Calls: answer call, end calls, make call Day-night mode Guard tour Defog: set, set 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: Send through FTP, SFTP, HTTP, HTTPS, network share and email Light and siren: Run light profile, run light profile while the rule is active, stop activities MQTT: send MQTT publish message Notification: HTTP, HTTPS, TCP and email Overlay text Recordings: SD card and network share SNMP trap messages: send, send while the rule is active Status LED Video clips: Send through FTP, SFTP, HTTP, HTTPS, network share and email WDR mode
Built-in installation aids	Remote zoom and focus

Analytics

Applications	**Included** AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection, Coughing fit and stressed voice 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, other) **Scenarios**: line crossing, object in area, time in area, crossline counting, occupancy 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 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	CSA, UL/cUL, CE, KC, VCCI, RCM
Supply chain	TAA compliant
EMC	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-3(A)/NMB-3(A) **Japan:** VCCI Class A **Korea:** KC KN35, KC KN32 Class A **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/EN 62471 risk group 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, IEC/EN 60529 IP44, IEC/EN 62262 IK08
Network	NIST SP500-267

Cybersecurity

Edge security	**Software:** Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection **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)[c], IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS[c], TLS v1.2/v1.3[c], 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*

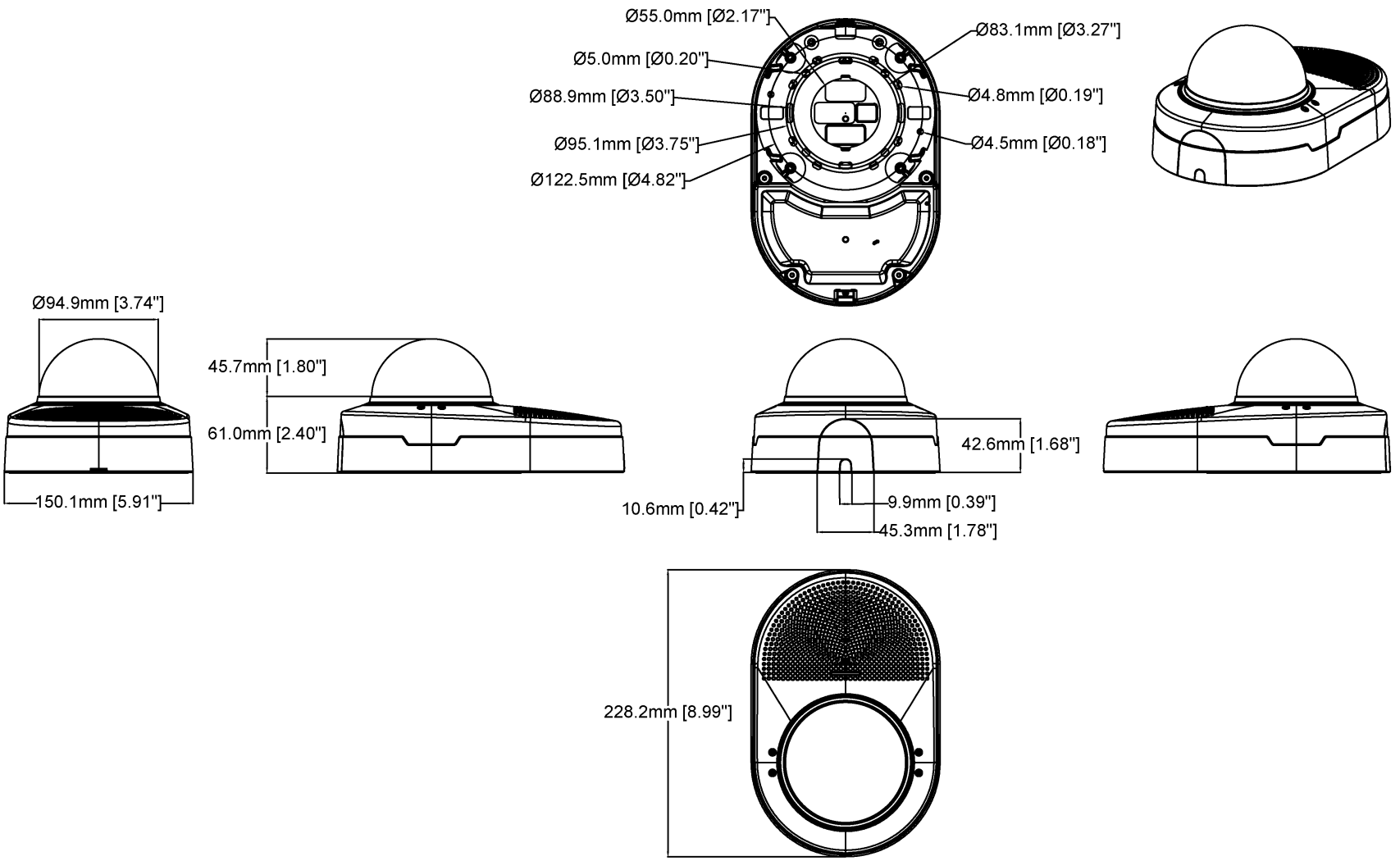
General

Casing	IP44- and IK08-rated Polycarbonate hard-coated dome Aluminum and plastic casing Color: white NCS S 1002-B Withstands chemical wipe-downs. Read more in the user manual.
LED indicators	LED indicator Audio LED
Mounting	Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4 Typical 10 W, max 25.5 W
Connectors	Network: RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm (0.098 in) terminal block for 1 supervised digital input and 1 digital output (12 V DC output, max. load 25 mA)
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	Temperature: 0 °C to 40 °C (32 °F to 104 °F) Humidity: 10–85% 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.
Weight	1250 g (2.8 lb)
Box content	Camera, installation guide, TORX® TR20 bits, terminal block connector, connector guard, cable gaskets, owner authentication key
Optional accessories	AXIS T91E61 Wall Mount, AXIS T91B47 Pole Mount, AXIS T94K01D Pendant Kit AXIS T8415 Wireless Installation Tool AXIS Surveillance Cards For more accessories, go to *axis.com/products/axis-q9307-lv#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-q9307-lv#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 *echa.europa.eu*
Materials	Renewable carbon-based plastic content: 31% 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*

a. *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.*
b. *Feature available with ACAP*
c. *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).*



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Revision	v.01	Revision date	2023-11-23
Paper size	A4	Release date	2023-11-23
Created by	MS	Scale	1:4

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Highlighted capabilities

AXIS Live Privacy Shield

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

With AI-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 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.

Chemical resistant casing

In some environments where hygiene requirements are rigorous, cleaning the exterior of the surveillance camera could be required daily or even several times a day. The recommended cleaning procedure involves chemical wipedowns using a soft cloth with specific chemical solutions such as cleansers or disinfectants. The chemical resistance of the casing has been verified through two types of in-house testing: environmental stress crack resistance testing and cleaning simulations.

Coughing fit and stressed voice detection

Coughing fit and stressed voice detection are two audio analytic applications that detect incidents by listening to the surrounding audio 24/7. The audio analytics consists of two separate detection algorithms, and you can choose to use one of them, or both. The cough detector detects single coughs or coughing fits. The stressed voice detector identifies sound patterns associated with duress, anger, or fear.

Echo cancellation

Devices with echo cancellation can recognize sounds that the built-in loudspeaker produces as echoes and remove them.

LED indicators

LED indicators are used to signal different functionalities to the close environment. The LEDs help to improve safety, security, and operational efficiency and at the same time safeguards privacy. A LED indicator can for instance help protect privacy by letting you know when the camera is recording or when audio is being used. The LEDs can be used separately or together and can be switched off for more discrete monitoring.

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