

AXIS P3288-LVE Dome Camera

Outdoor 8 MP AI-powered dome with audio analytics

This Al-powered camera delivers excellent image quality in 8 MP even in harsh weather and environments. Built on ARTPEC-9, it offers accelerated performance to run impressive analytics applications on the edge. For instance, AXIS Object Analytics can detect, classify, track, and count humans, vehicles, and types of vehicles. In addition, AXIS Audio Analytics will notify you whenever something relevant happens, even when there's no visual indication. This robust, IK10-, IP66-, and NEMA 4X-rated outdoor-ready 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.

- > Excellent image quality in 8 MP
- > Next-generation AI-powered analytics
- > Wide or tele lenses available
- > AXIS Audio Analytics preinstalled
- > Built-in cybersecurity with Axis Edge Vault









AXIS P3288-LVE Dome Camera

Camera

Image sensor

1/1.8" progressive scan RGB CMOS Pixel size 2.0 μm

Lens

Varifocal, 4.4–14.6 mm, F1.65–3.65 Horizontal field of view: 103°–29° Vertical field of view: 56°–17° Minimum focus distance: 1 m (3.28 ft) IR corrected, remote zoom and focus, P-Iris control

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.11 lux at 50 IRE, F1.65 **B/W:** 0.03 lux at 50 IRE, F1.65 0 lux with IR illumination on

Shutter speed

1/66500 s to 2 s

Camera adjustment

Pan $\pm 190^\circ$, tilt -50 to +80°, rotation $\pm 95^\circ$

System on chip (SoC)

Model ARTPEC-9

Memory 2 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: 3840x2160 16:10:2560x1600 4:3: 2592x1944

Frame rate

Up to 25/30 fps (50/60 Hz) in all resolutions

Video streaming

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

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, target aperture

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR

Pan/Tilt/Zoom

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

^{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.

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 Day/night shift Defog Wide dynamic range Video streaming indicator IR illumination Privacy masks Media clip Heater

Event conditions

Application

Device status: above/below/within operating temperature, casing open, IP address blocked/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, manual trigger, virtual input MQTT: stateless

Scheduled and recurring: schedule

Video: average bitrate degradation, day-night mode, tampering

Event actions

Day-night mode

Defog: Set Defog mode, set Defog 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

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

MQTT: publish Notification: HTTP, HTTPS, TCP and email Overlay text 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

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 Image Health Analytics Detection settings:

Tampering: blocked image, redirected image Image degradation: blurred image, underexposed image **Other features:** sensitivity, validation period

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).

AXIS Audio Analytics

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

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/cUL, CE, KC, EAC, VCCI, RCM, ICES, UKCA, FCC

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, 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 9835, KS C 9832 Class A 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, IEC/EN 62262 IK10, NEMA 250 Type 4X

Network

NIST SP500-267, IPv6 USGv6

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

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-, NEMA 4X- and IK10-rated Polycarbonate hard-coated dome Plastic casing and weathershield 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*. This product can be repainted.

Mounting

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

Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Max 12.9 W, typical (heater off, IR off) 5.5 W Features: power meter

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).

Environmental sensors

Environmental sensors through portcast technology accessories. For more information, see *Optional accessories*.

I/O functionality

I/O: Terminal block for one configurable supervised input/digital output (12 V DC output, max load 25 mA)

Connectors

Network: RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for 1 alarm input and 1 output

Sensor

Acoustic sensor

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: -40 °C to 50 °C (-40 °F to 122 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Start-up temperature: -30 °C (-22 °F) Humidity: 10–100% RH (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): 0.023 m² (0.075 ft²)

Weight

860 g (1.9 lb)

Box content

Camera, weathershield, installation guide, terminal block connector, connector guard, cable gasket, 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-p3288-lve#partnumbers

Optional accessories

Installation

AXIS T8415 Wireless Installation Tool

Mounting

AXIS TP3206-E Recessed Mount, AXIS TP3103-E Pendant Kit

Storage

AXIS Surveillance Cards

For more accessories, go to axis.com/products/axisp3288-lve#accessories

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

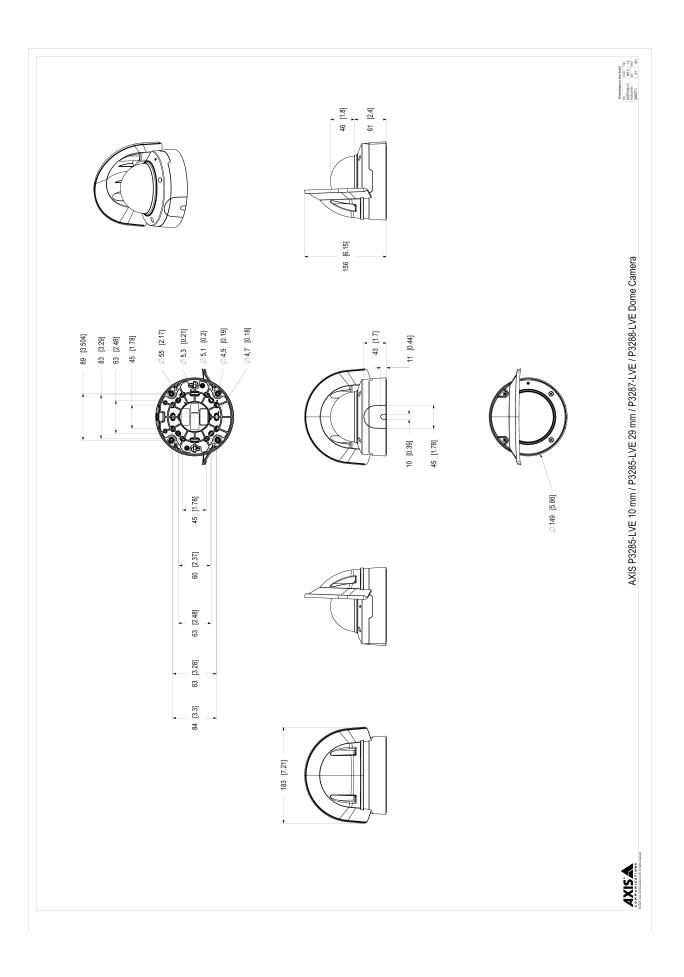
Renewable carbon-based plastic content: 45% (biobased: 43%, carbon capture based: 2%) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to *axis. com/about-axis/sustainability*

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)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	88 m (289 ft)	292 m (958 ft)
Observe	63 px/m (19 px/ft)	35 m (115 ft)	116 m (380 ft)
Recognize	125 px/m (38 px/ft)	18 m (59 ft)	58 m (190 ft)
ldentify	250 px/m (76 px/ft)	9 m (30 ft)	29 m (95 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.



Highlighted capabilities

AXIS Audio Analytics

AXIS Audio Analytics uses adaptive audio detection to generate alarms on sudden increases in sound volume. With AI-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 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 certified hardware-based FIPS 140 Criteria or 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.

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 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.

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.

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