

# AXIS P3268-LVE Dome Camera

## Outdoor 8 MP dome with IR and deep learning

Featuring Lightfinder 2.0, Forensic WDR, and OptimizedIR, AXIS P3268-LVE delivers excellent image quality under any light conditions. Based on the latest Axis system-on-chip (SoC), it includes a deep learning processing unit enabling advanced features and powerful analytics based on deep learning on the edge. Thanks to AXIS Object Analytics, it offers detection and classification of humans, vehicles, and types of vehicles—all tailored to your specific needs. Featuring audio and I/O connectivity, you can integrate equipment and extend the value of your system. Furthermore, this robust, IK10-rated, outdoor-ready camera includes built-in cybersecurity to help prevent unauthorized access and safeguard your system.

Smoke alert analytics serve as an additional layer of safety, monitoring for signs of smoke or fire (and are also able to detect the early stages of fire, even if smokeless). These analytics can provide the early warning that will alert responders to an issue early enough to prevent it escalating, avoiding accidents and costly shutdowns.

- > [Excellent image quality in brilliant 4K](#)
- > [Lightfinder 2.0, Forensic WDR, and OptimizedIR](#)
- > [Analytics with deep learning](#)
- > [Audio and I/O connectivity](#)
- > [Built-in cybersecurity features](#)



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## Camera

<b>Image sensor</b>	1/1.8" progressive scan RGB CMOS
<b>Lens</b>	Varifocal, 4.3–8.6 mm, F1.5 Horizontal field of view: 100°–53° Vertical field of view: 54°–30° Minimum focus distance: 50 cm (20 in) IR corrected, remote zoom and focus, P-Iris control
<b>Day and night</b>	Automatically removable infrared-cut filter
<b>Minimum illumination</b>	With Forensic WDR and Lightfinder 2.0: Color: 0.14 lux at 50 IRE, F1.5 B/W: 0 lux at 50 IRE, F1.5
<b>Shutter speed</b>	1/8500 s to 1/5 s
<b>Camera angle adjustment</b>	Pan ±190°, tilt -10 to +80°, rotation ±190°

## System on chip (SoC)

<b>Model</b>	ARTPEC-8
<b>Memory</b>	2048 MB RAM, 8192 MB Flash
<b>Compute capabilities</b>	Deep learning processing unit (DLPU)

## Video

<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main, and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG
<b>Resolution</b>	3840x2160 to 160x90
<b>Frame rate</b>	25/30 fps with power line frequency 50/60 Hz
<b>Video streaming</b>	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
<b>Multi-view streaming</b>	Up to 2 individually cropped out view areas in full frame rate
<b>Image settings</b>	Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, 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, dynamic text and image overlay, privacy masks, polygon privacy mask
<b>Pan/Tilt/Zoom</b>	Digital PTZ, preset positions

## Audio

<b>Audio streaming</b>	Audio in, simplex, two-way audio through edge-to-edge technology
<b>Audio encoding</b>	24bit LPCM, AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz Configurable bit rate
<b>Audio input/output</b>	External microphone input, line input, digital input with ring power, automatic gain control, network speaker pairing

## Network

<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, 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)
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## System integration

<b>Application Programming Interface</b>	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="https://onvif.org">onvif.org</a> Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
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<b>Video management software</b>	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at <a href="https://axis.com/vms">axis.com/vms</a>
<b>Onscreen controls</b>	Day/night shift Defogging Wide dynamic range Video streaming indicator IR illumination
<b>Event conditions</b>	Analytics, external input, supervised external input, virtual inputs through API Call: state, state change Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active, casing open 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 Scheduled and recurring: schedule Video: average bitrate degradation, day-night mode, live stream open, tampering
<b>Event actions</b>	Overlay text, external output activation, zoom preset, day/night mode, flash status LED, use lights, set defog mode, set WDR mode Calls: end SIP call, make SIP call, answer call I/O: toggle I/O once, toggle I/O while the rule is active MQTT: publish Notification: email, HTTP, HTTPS, TCP, and SNMP trap Pre- and post-alarm video or image buffering for recording or upload Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email
<b>Built-in installation aids</b>	Remote zoom and focus, straighten image, pixel counter, level grid
<b>Analytics</b>	
<b>Applications</b>	<b>Included</b> AXIS Object Analytics, Scene metadata AXIS Perimeter Defender, AXIS License Plate Verifier AXIS Live Privacy Shield®, AXIS Video Motion Detection, active tampering alarm, audio detection <b>Supported</b> AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>
<b>AXIS Object Analytics</b>	<b>Object classes:</b> humans, vehicles (types: cars, buses, trucks, bikes, other) <b>Scenarios:</b> line crossing, object in area, time in area, crossline counting, occupancy in area, motion in area, motion line crossing Up to 10 scenarios <b>Other features:</b> triggered objects visualized with color-coded bounding boxes, polygon include/exclude areas, perspective configuration, ONVIF motion alarm event
<b>Scene metadata</b>	<b>Object classes:</b> humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates <b>Object attributes:</b> vehicle color, upper/lower clothing color, confidence level, position
<b>Approvals</b>	
<b>EMC</b>	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: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A Railway: IEC 62236-4
<b>Safety</b>	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471, IS 13252
<b>Environment</b>	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, NEMA TS 2 (2.2.7-2.2.9)

<b>Network</b>	NIST SP500-267	Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="#">axis.com</a>
<b>Cybersecurity</b>	ETSI EN 303 645	
<b>Cybersecurity</b>		
<b>Edge security</b>	<b>Software:</b> Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption <b>Hardware:</b> 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)	<b>Operating conditions</b> 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 to 50 °C (-22 °F to 122 °F) Humidity: 10–100% RH (condensing)
<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall	<b>Storage conditions</b> Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95% RH (non-condensing)
<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="#">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="#">axis.com/cybersecurity</a>	<b>Dimensions</b> Without weathershield: Height: 107 mm (4.21 in) ø 149 mm (5.87 in)
<b>General</b>		
<b>Casing</b>	IP66-, NEMA 4X- and IK10-rated Polycarbonate hard coated dome Polycarbonate 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 <a href="#">axis.com/warranty-implication-when-repainting</a> .	<b>Weight</b> With weathershield: 900 g (2.0 lb)
<b>Mounting</b>	Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount	<b>Box content</b> Camera, installation guide, Windows® decoder 1-user license, drill template, RESISTORX® T20 screw bit, terminal block connectors, cable gaskets, connector guard, weathershield
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 5.5 W, max 11.2 W	<b>Optional accessories</b> AXIS TP3201-E Recessed Mount, AXIS TP3103-E Pendant Kit, AXIS T8355 Digital Microphone 3.5 mm, AXIS TP3824-E Dome Clear/Smoked, AXIS TP3821-E Casing Black/White, AXIS Surveillance Cards For more accessories, see <a href="#">axis.com</a>
<b>Connectors</b>	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) Audio: 3.5 mm mic/line in	<b>Languages</b> English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
<b>IR illumination</b>	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 40 m (130 ft) or more depending on the scene	<b>Warranty</b> 5-year warranty, see <a href="#">axis.com/warranty</a>
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit)	<b>Sustainability</b>
		<b>Substance control</b> PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 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 <a href="#">echa.europa.eu</a>
		<b>Materials</b> Renewable carbon-based plastic content: 6.4% (recycled) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to <a href="#">axis.com/about-axis/sustainability</a>
		<b>Environmental responsibility</b> <a href="#">axis.com/environmental-responsibility</a> Axis Communications is a signatory of the UN Global Compact, read more at <a href="#">unglobalcompact.org</a>

a. Available for download