

AXIS P1468-XLE Explosion-Protected Bullet Camera

Class/Division- and Zone-certified camera with deep learning

This explosion-protected camera is designed and certified for Zone and Division 2 according to international standards (ATEX, IECEx, cULus). Built on ARTPEC-8, it includes a deep learning processing unit (DLPU) enabling advanced features and powerful analytics that run on the edge. Ideal for health and safety applications as well as operational efficiency, you can gain a deeper understanding and awareness by creating an advanced data-driven sensory network that can be integrated with existing sensors and systems. Including Lightfinder 2.0, Forensic WDR, and OptimizedIR, AXIS P1468-XLE ensures sharp, detailed 4K images under any light conditions. Furthermore, this impact-resistant, outdoor-ready camera includes built-in cybersecurity features.

- > Certified for Zone and Division 2
- > Deep learning-based analytics
- > Excellent video quality with 4K at 60 fps
- > Detailed images in any light conditions
- > Impact- and weather-resistant







AXIS P1468-XLE Explosion-Protected Bullet Camera

Camera		Network		
Image sensor	1/1.2" progressive scan RGB CMOS	Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSb, HTTP/2,	
Lens	Pixel size 2.9 µm Varifocal, 6.2–12.9 mm, F1.6–2.9 Horizontal field of view 108°–49° Vertical field of view 58°–27° Minimum focus distance: 1 m (3.3 ft)	protocols	TLS ^b , OoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDN NTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICM DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Lo address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR	
	Varifocal, remote focus and zoom, P-iris control, IR corrected	System integra	rtion	
Day and night	Automatic IR-cut filter Hybrid IR filter	Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at any complete and action of the specific actions at the specific actions and specific actions are specific actions as the specific action of the specific actions and specific actions are specifically actions as the specific action of the specific actions are specifically actions as the specific action of the sp	
Minimum illumination	With WDR and Lightfinder: Color: 0.07 lux, at 50 IRE F1.6 B/W: 0.01 lux, at 50 IRE F1.6 0 lux with IR illumination on	interface	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, specification at onvif.org	
Shutter speed	1/66500 s to 2 s	Video	Compatible with AXIS Companion, AXIS Camera Station, video	
System on chip		management	management software from Axis' Application Development Partners available at axis.com/vms	
Model	ARTPEC-8	Systems Onscreen	· · · · · · · · · · · · · · · · · · ·	
Memory	2 GB RAM, 8 GB Flash	controls	Video streaming indicator Day/night shift Defog WDR Privacy masks	
Compute capabilities	Deep learning processing unit (DLPU)			
Video Video	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles		Privacy masks Media clip	
compression	H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Event conditions	Light control Audio: audio clip playing, audio clip currently playing	
Resolution	3840x2160 to 160x90		Device status: above operating temperature, above or below operating temperature, below operating temperature, within	
Frame rate	With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions No WDR: Up to 50/60 fps (50/60 Hz) in all resolutions		operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection,	
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 Video streaming indicator		live stream active Digital audio: digital signal contains Axis metadata, digital signal contains Axis metadata, digital signal signal missing, digital signal ok Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input	
Signal-to-noise ratio	>55 dB		MQTT subscribe Scheduled and recurring: schedule	
WDR	Forensic WDR: Up to 120 dB depending on scene		Smoke alert Video: average bitrate degradation, day-night mode, tampering	
Multi-view streaming	Up to 8 individually cropped out view areas	Event actions	Day-night mode, overlay text, WDR mode Audio clips: play, stop	
Noise reduction	Spatial filter (2D noise reduction) Temporal filter (3D noise reduction)		I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active	
Image settings	Saturation, contrast, brightness, sharpness, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, motion-adaptive exposure, defogging, barrel distortion correction, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, polygon and mosaic privacy masks		MQTT: publish Notification: HTTP, HTTPS, TCP and email Record video: SD card and network share SNMP traps: send, send while the rule is active Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email	
Image processing	Scene profiles: forensic, vivid, traffic overview Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR	Built-in installation aids	Pixel counter, remote zoom, remote focus, auto rotation	
Pan/Tilt/Zoom	Digital PTZ, digital zoom	Analytics		
Audio	Guard tour (max 100), control queue, fixed orientation aid	AXIS Object Analytics	Object classes : humans, vehicles (types: cars, buses, trucks, bikes)	
Audio features	AGC automatic gain control Network speaker pairing		Trigger conditions: line crossing, object in area, time in area, PPE monitoring Up to 10 scenarios Metadata visualized with trajectories and color-coded boundin boxes Polygon include/exclude areas	
Audio streaming	Configurable duplex: One-way (simplex, half duplex) Two-way (half duplex, full duplex)			
Audio input	10-band graphic equalizer Input for external unbalanced microphone, optional 5 V microphone power Digital input, optional 12 V ring power Unbalanced line input	Metadata	Perspective configuration ONVIF Motion Alarm event Object data: Classes: humans, vehicles (types: cars, buses, trucks, bikes), license plates Confidence, position	
Audio output	Output via network speaker pairing		Event data: Producer reference, scenarios, trigger conditions	
Audio encoding	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	Applications	Included AXIS Object Analytics AXIS Video Motion Detection, active tampering, shock detection, audio detection, orientation aid, smoke alert Supported AXIS Perimeter Defender, AXIS Digital Autotracking	

Support for AXIS Camera Application Platform enabling installation of third-party applications see axis com/grap

	installation of third-party applications, see axis.com/acap
Approvals	
Product markings	ATEC, IECEx, cULus
Supply chain	TAA compliant
ЕМС	EMC CISPR 35, 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) 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, IEC/EN/UL 62368-1 ed. 3, IEC 62471 risk group exempt
Environment	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 62262 IK10, IEC/EN 60529 IP66, IEC/EN 60529 IP67, NEMA 250 Type 4X, ISO 21207 (Method B)
Network	NIST SP500-267
Explosion	IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 60079-31, UL 60079-0, UL 60079-7, UL 60079-31, CSA C22.2 No. 60079-0, CSA C22.2 No. 60079-7, CSA C22.2 No. 60079-31, CSA C22.2 No. 213-17, UL121201
Certifications	ATEX: 3 G Ex ec C T4 Gc 2 D Ex tb HIC T135°C Db
Cybersecurity	
Edge security	Software: 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 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) ^b , IEEE 802.1AR, HTTPS/HSTS ^b , TLS v1.2/v1.3 ^b , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
General	
Casina	IDCC/IDCZ NEMA AV and IVAO metad accing

IP66/IP67-, NEMA 4X-, and IK10-rated casing

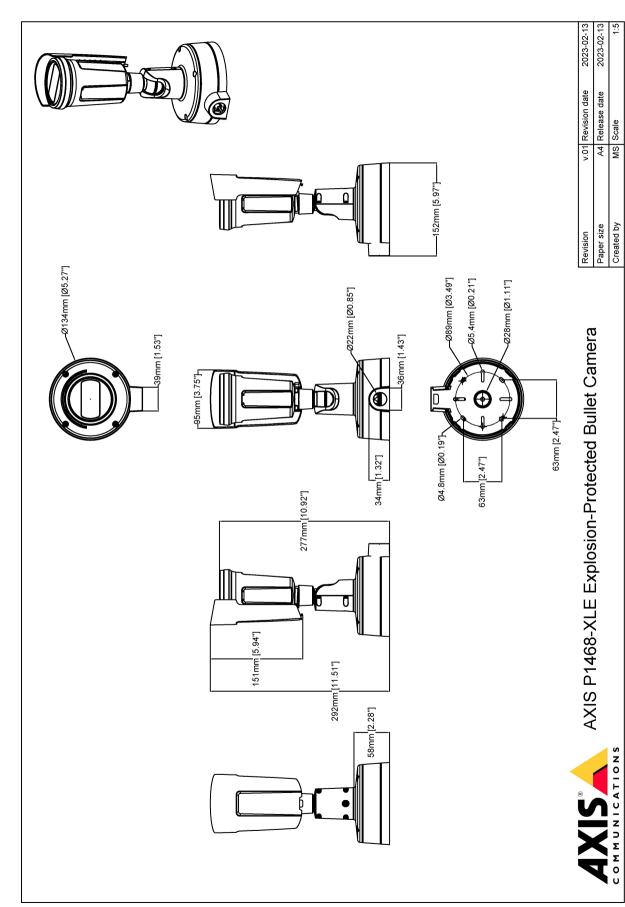
Casing

	Polycarbonate blend and aluminium Color: grey NCS S 5502-B
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Typical: 7.7 W, max 12.95 W 12–28 V DC, typical 7.6 W, max 12.95 W
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T Audio: 3.5 mm mic/line in I/O: Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 25 mA) Power: DC input
IR illumination	OptimizedIR with power-efficient, long-life 850 nm IR LEDs Range of reach 40 m (131 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	-40 °C to 60 °C (-40 °F to 140 °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	Ø132 x 294 x 146 mm (Ø5.2 x 11.6 x 5.7 in) Effective Projected Area (EPA): 0.022 m² (0.24 ft²)
Weight	With weather shield: 1.3 kg (2.87 lb)
Box content	Camera, AXIS Weather Shield L, connector kit, connector guard, TORX® L-keys, installation guide, owner authentication key, Declaration of Conformity
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, 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-p1468-xle#part-numbers
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 EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see axis.com/partner.
Materials	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
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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.

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).

Dimension drawing



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Key features and technologies

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 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 offers features to protect the device's identity, safeguard its integrity from factory and protect sensitive information from unauthorized access.

Establishing the root of trust starts at the device's boot process. In Axis devices, the hardware-based mechanism secure boot verifies the operating system (AXIS OS) that the device is booting from. AXIS OS, in turn, is cryptographically signed (signed firmware) during the build process. Secure boot and signed firmware tie into each other and ensure that the firmware has not been tampered with during the lifecycle of the device and that the device only boots from authorized firmware. This creates an unbroken chain of cryptographically validated software for the chain of trust that all secure operations depend on.

From a security aspect, 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 is provided through a Common Criteria and/or FIPS 140 certified hardware-based cryptographic computing module. Depending on security requirements, an Axis device can have either one or multiple such modules, like a TPM 2.0 (Trusted Platform Module) or a secure element, and/or a system-on-chip (SoC) embedded Trusted Execution Environment (TEE).

Signed video ensures that video evidence can be verified as untampered without proving the chain of custody of the video file. Each camera uses its unique video signing key, which is securely stored in the secure keystore, to add a signature into the video stream. This allows video to be traced back to the Axis camera from where it originated, so it's possible to verify that the footage has not been tampered with after it left the camera.

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

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.

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.

Smoke alert

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.

Zone/Division 2

Hazardous areas are divided into zones or divisions, defined by the probability that hazardous material will be present in an ignitable concentration in the surrounding atmosphere.

Zone/Division 2 areas are less hazardous than Zone/Division 1 areas, and explosions are not likely to occur during normal operations.

With 'Ex e' or 'non-incendive' protection, cameras certified for Zone/Division 2 offer increased safety. This explosion-protection approach ensures that no arcs and sparks can appear, and that excessive temperatures can't be reached, during normal operation of electrical equipment. As a result, electrical equipment using 'Ex e' protection can't ignite gas or dust in the surrounding potentially combustible environment.

www.cxis.com T10182889/EN/M4.2/2311

For more information, see axis.com/glossary

