

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







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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 108°–49° Vertical field of view 58°–27° Minimum focus distance: 1 m (3.3 ft) Varifocal, remote focus and zoom, P-iris control, IR

corrected

Day and night

Automatic IR-cut filter Hybrid IR filter

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

Shutter speed

1/66500 s to 2 s

System on chip (SoC)

Model

ARTPFC-8

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 Motion JPEG

Resolution

3840x2160 to 160x90

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

Video streaming

Up to 20 unique and configurable video streams¹ Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Video streaming indicator

Signal-to-noise ratio

>55 dB

WDR

Forensic WDR: Up to 120 dB depending on scene

Multi-view streaming

Up to 8 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, 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 Scene profiles: forensic, vivid, traffic overview

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ, digital zoom Guard tour (max 100), control queue, fixed orientation aid

^{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.

Audio

Audio features

AGC automatic gain control Network speaker pairing

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

Audio output

Output via network speaker pairing

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

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, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, 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.

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

Video streaming indicator Day/night shift Defog WDR Privacy masks Media clip Light control

Event conditions

Audio: audio clip playing, audio clip currently playing Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, new IP address, network lost, system ready, ring power overcurrent protection, live stream active Digital audio: digital signal contains Axis metadata, digital signal has invalid signal 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

Smoke alert

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

Event actions

Day-night mode, overlay text, WDR mode Audio clips: play, stop

I/O: toggle I/O once, toggle I/O while the rule is active Illumination: use lights, use lights while the rule is active

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, HTTPS,

network share and email

Built-in installation aids

Pixel counter, remote zoom, remote focus, auto rotation

^{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).

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene metadata AXIS Video Motion Detection, active tampering, shock detection, audio detection, orientation aid, smoke alert Supported

AXIS Perimeter Defender, AXIS License Plate Verifier, AXIS Digital Autotracking

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)

Trigger conditions: line crossing, object in area, time in

area, PPE monitoring 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: confidence, position

Approvals

Product markings

ATEC, IECEx, cULus, INMETRO, IA, PESO, TD, KCs

Supply chain

TAA compliant

EMC

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, IS 13252

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

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

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:

II 3 G Ex ec IIC T4 Gc II 2 D Ex tb IIIC T135°C Db

Certificate: UL 22 ATEX 2732X, UL 22 ATEX 2888X

IECEx:

Ex ec IIC T4 Gc EX tb IIIC T135°C Db Certificate: ULD 22.0011X

cULus:

Class I Div 2 Group A, B, C, D T4 Class II Div 2 Group F, G T135°C T4

Class III Div 2

Class I Zone 2 AEx ec IIC T4 Gc Zone 21 AEx IIIC T135°C Db Certificate: E525121

INMETRO: Ex ec IIC T4 Gc EX tb IIIC T135°C Db

Certificate: CPEx 23.1253 X

IA:

Ex ec IIC T4 Gc EX tb IIIC T135°C Db

Certificate: MASC S/23-8118X

OSHA Taiwan: Ex ec IIC T4 Gc EX tb IIIC T135°C Db Certificate: TD100043

PESO:

Ex ec IIC T4 Gc

Certificate: P576392/1

Korea: Ex ec IIC T4 Gc

EX to IIIC T135°C Db

Certificate: 23-KA4BO-0686X and 23-KA4BO-0687X

JPEx:

Ex ec IIC T4 Gc EX tb IIIC T135°C Db Certificate: DEK23.0065X

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 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/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
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/IP67-, NEMA 4X-, and IK10-rated 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 m^2 (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

^{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).

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.

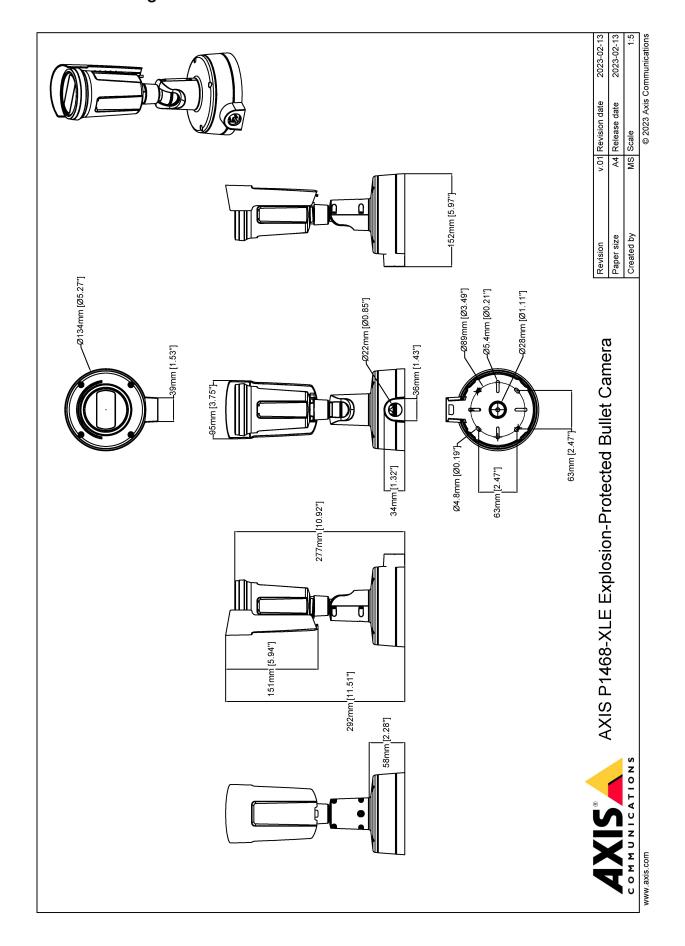
Materials

Screened for conflict minerals in accordance with OECD

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

Dimension drawing



WWW.0XIS.COM T10182889/EN/M16.2/202506

Highlighted capabilities

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 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 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.

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.

For more information, see axis.com/glossary

