

## AXIS P1468-LE Bullet Camera

Fully featured, all-around 4K surveillance

Based on ARTPEC-8, AXIS P1468-LE delivers excellent image quality in outstanding 4K. It includes a deep learning processing unit enabling advanced features and powerful analytics based on deep learning on the edge. With AXIS Object Analytics preinstalled, it offers detection and classification of humans, vehicles, and types of vehicles. This IP66/IP67, NEMA 4X, and IK10-rated camera can withstand winds up to 50 m/s. Lightfinder 2.0, Forensic WDR, and OptimizedIR, ensure sharp, detailed images under any light conditions. Furthermore, it includes Axis Edge Vault to protect your Axis device ID and simplify authorization of Axis products on your network.

- > [Lightfinder 2.0, Forensic WDR, OptimizedIR](#)
- > [Analytics with deep learning](#)
- > [Audio and I/O connectivity](#)
- > [Built-in cybersecurity features](#)
- > [Impact and weather resistant](#)



# AXIS P1468-LE Bullet Camera

## Camera

### Image sensor

1/1.2" progressive scan RGB CMOS

### Lens

Varifocal, 6.2–12.9 mm, F1.6–2.9  
Horizontal field of view 108°–49°  
Vertical field of view 58°–27°  
Varifocal, remote focus and zoom, P-iris control, IR corrected

### Day and night

Automatically removable infrared-cut 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

ARTPEC-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

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

### Multi-view streaming

Up to 8 individually cropped out view areas

### Image settings

Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, 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 privacy masks  
Scene profiles: forensic, vivid, traffic overview

### Pan/Tilt/Zoom

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

## Audio

### Audio streaming

Audio in, simplex, two-way audio via edge-to-edge technology

### 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

### Audio input/output

External microphone input or line input, digital audio input, ring power, network speaker pairing

## Network

### Network protocols

IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, 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, 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® and AXIS Camera Application Platform (ACAP); specifications at [axis.com/developer-community](https://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](https://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](https://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, within 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  
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, HTTP, HTTPS, network share and email

### Built-in installation aids

Pixel counter, remote zoom, remote focus, auto rotation

## Analytics

### Applications

#### Included

AXIS Live Privacy Shield  
AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics  
AXIS Video Motion Detection, active tampering, shock detection, audio detection, orientation aid

#### Supported

AXIS Perimeter Defender, AXIS License Plate Verifier  
Support for AXIS Camera Application Platform enabling installation of third-party applications, see [axis.com/acap](https://axis.com/acap)

### AXIS Object Analytics

**Object classes:** humans, vehicles (types: cars, buses, trucks, bikes, other)

**Scenarios:** line crossing, object 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 Image Health Analytics

#### Detection settings:

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

### 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

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

## Approvals

### EMC

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-3(A)/NMB-3(A)

**Japan:** VCCI Class A

**USA:** FCC Part 15 Subpart B Class A

**Railway:** IEC 62236-4

### Safety

IEC/EN 62368-1, IEC/EN 62471, 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 IP66/IP67, IEC/EN 62262 IK10,  
NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)

### Network

NIST SP500-267

### Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS-140

## 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, 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)<sup>2</sup>,  
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,  
HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, 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](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

## General

### Casing

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

Polycarbonate blend and aluminium

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](https://axis.com/warranty-implication-when-repainting).

### Sustainability

PVC and BFR/CFR free

### Power

Power over Ethernet IEEE 802.3af/802.3at Type 1  
Class 3

Typical: 7.7 W, max 12.95 W

10–28 V DC, typical 7.6 W, max 12.95 W

### Connectors

Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T  
3.5 mm mic/line in

Terminal block for 1 supervised alarm input and 1  
output (12 V DC output, max. load 25 mA)  
DC input

### IR illumination

Optimized IR 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](https://axis.com)

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

**Operating conditions**

-40 °C to 60 °C (-40 °F to 140 °F)

Maximum temperature according to NEMA TS2 (2.2.7):

74 °C (165 °F)

Start-up temperature: -40 °C

Humidity 10–100% RH (condensing)

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**Storage conditions**

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

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**Weight**

With weather shield:

1.2 kg (2.65 lb)

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**Dimensions**

Ø132 x 280 mm (Ø5.2 x 11.0 in)

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**Included accessories**

Installation guide, Windows® decoder 1-user license,

drill hole template, connector kit, mounting bracket,

Torx® L-keys

AXIS Weather Shield L

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**Optional accessories**

AXIS T94F01M J-Box/Gang Box Plate, AXIS T91A47 Pole

Mount, AXIS T94P01B Corner Bracket, AXIS T94F01P

Conduit Back Box, AXIS Weather Shield K, Axis PoE

Midspans

For more accessories, see [axis.com](http://axis.com)

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**Languages**

English, German, French, Spanish, Italian, Russian,

Simplified Chinese, Japanese, Korean, Portuguese,

Traditional Chinese, Dutch, Czech, Swedish, Finnish,

Turkish, Thai, Vietnamese

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**Warranty**

5-year warranty, see [axis.com/warranty](http://axis.com/warranty)