

AXIS P1487-LE Bullet Camera

5 MP fully featured AI-powered surveillance

This robust, impact-resistant camera delivers excellent image quality in 5 MP under any light conditions. It comes with a 3-8.5 mm wide-angle lens. Zipstream with support for AV1, H.264, and H.265 significantly lowers bandwidth and storage costs. Built on ARTPEC-9, it offers accelerated performance to run impressive analytics applications on the edge and comes with AXIS Object Analytics and AXIS Image Health Analytics preinstalled. This outdoor-ready camera can handle extreme temperatures. It's easy to install, maintain, and operate. What's more, Axis Edge Vault, our hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operation.

- > **Excellent 5 MP video in any light**
- > **Reduced storage cost with AV1 video encoding**
- > **Next-generation AI-powered analytics**
- > **Robust and impact-resistant**
- > **Built-in cybersecurity with Axis Edge Vault**



FIPS 140-3 Inside #5139



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Camera

Image sensor

1/2.8" progressive scan RGB CMOS
Pixel size 2.0 μ m

Lens

Varifocal, 3–8.5 mm, F1.36–2.58
Horizontal field of view 106°–35°
Vertical field of view 77°–26°
Minimum focus distance: 0.3 m (1 ft)
P-iris lens, IR corrected

Day and night

Automatic IR-cut filter
Hybrid IR filter

Minimum illumination

0 lux with IR illumination on
Color: 0.09 lux, at 50 IRE F1.3
B/W: 0.02 lux, at 50 IRE F1.3

Shutter speed

1/30500 s to 2 s

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: 2560x1440 to 640x360
16:10: 1920x1200 to 320x200
4:3: 2592x1944 to 160x120

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 H.264, H.265, and AV1
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, exposure mode, exposure zones, defogging, compression, orientation: auto, 0°, 90°, 180°, 270° including corridor format, mirroring of images, dynamic text and image overlay, polygon privacy masks, barrel distortion correction
Scene profiles: forensic, vivid, traffic overview
Electronic image stabilization

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ, digital zoom

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

Features

Automatic gain control (AGC)
Speaker pairing, microphone pairing

Streaming

Configurable duplex:
One-way (simplex, half duplex)
Two-way (half duplex, full duplex)

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

Output

Output through network speaker pairing

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, PTP, 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/developer-community.

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S
and ONVIF® Profile T, specification at onvif.org

Support for Voice over IP (VoIP) through the Session
Initiation Protocol (SIP), using peer-to-peer (P2P) or
Private Branch Exchange (PBX).

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
Defogging
Video streaming indicator
Wide dynamic range
IR illumination
Privacy masks
Media clip
Electronic image stabilization

Edge-to-edge

Microphone pairing
Speaker pairing
Siren and light pairing

Event conditions

Application
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 input status
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

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

Built-in installation aids

Pixel counter, remote zoom and focus, straighten
image, 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 Image Health Analytics, AXIS Live Privacy Shield, AXIS Video Motion Detection

Supported

AXIS Perimeter Defender, AXIS License Plate Verifier, AXIS Speed Monitor³
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

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

AXIS Live Privacy Shield

Object classes: Humans, (entire body or face only), license plates, backgrounds

Masking type: Pixelated with adjustable block size, color (solid), masking inclusion and exclusion areas

Other features: Dynamic masking up to 10 fps.

Supports multiple dynamically masked streams, and one unmasked stream with full frame rate, simultaneously.

Approvals

Product markings

CSA, UL/cUL, CE, KC, VCCI, RCM

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, 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)

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, IS 13252

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC/EN 60529 IP66/IP67, IEC/EN 62262, IEC 60950-22, ISTA 3A, IK10, NEMA TS 2 (2.2.7-2.2.9)

Network

IPv6 USGv6, 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)

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)

3. It also requires AXIS D2110-VE Security Radar with AXIS OS 10.12 or later.

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)⁴,
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,
HTTPS/HSTS⁴, TLS v1.2/v1.3⁴, 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/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.

Power

Power over Ethernet IEEE 802.3af/802.3at Type 1

Class 3, max 12.95 W

10–28 V DC, 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 50 m (164 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 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)

Wind load (sustained): 60 m/s (134 mph)

Storage conditions

-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): 0.024 m² (0.26 ft²)

Weight

With weather shield: 1.37 kg (3 lb)

Box content

Camera, weathershield, installation guide, terminal block connector, connector guard, cable gaskets, 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-p1487-le#part-numbers

Optional accessories

Installation

AXIS T8415 Wireless Installation Tool

Mounting

AXIS T91B47 Pole Mount, AXIS T94F01P Conduit Back Box, AXIS TM4101 Pendant Kit

4. 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).

Storage

AXIS Surveillance Cards

For more accessories, go to axis.com/products/axis-p1487-le#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 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

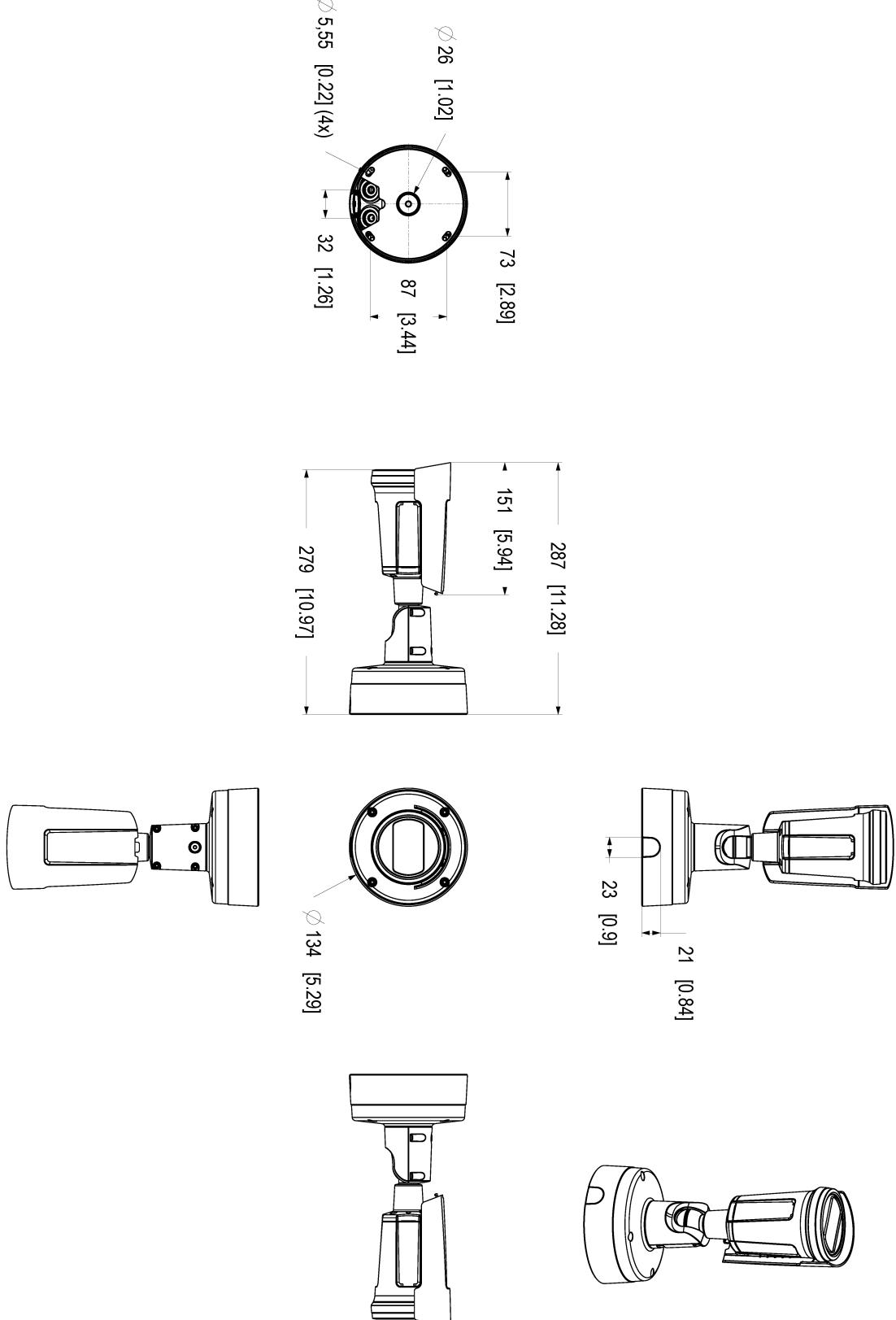
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

Environmental responsibility

axis.com/environmental-responsibility

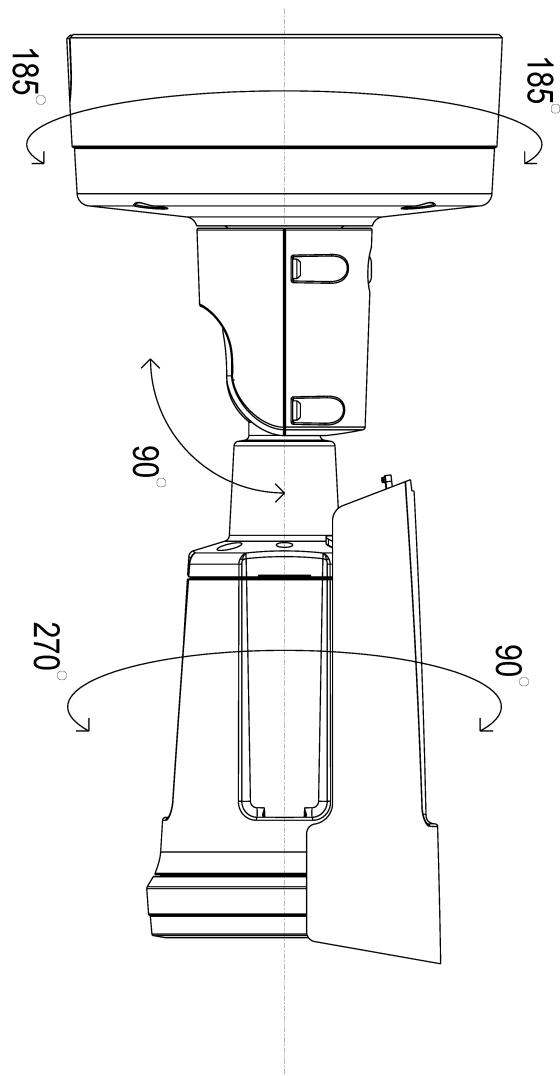
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

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Dimensions in mm [inch]		
Top	Height	13
2005-Jun-17	Mounting hole	M11
Bottom	Base	13
3373342	SS	A2
	Side	112

Weather Shield sliding direction: 15.5 mm [6.10]



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Dimensions in mm [in]	
Width	170
Height	111
Depth	111

AV1

AV1 is a modern video encoding standard optimized for video transmission over the internet by Alliance for Open Media (AoM). It was designed to provide better compression efficiency than older codecs including H.264 (also known as AVC) and H.265 (HEVC), while being royalty-free and open-source.

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 Criteria or FIPS 140 certified hardware-based 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 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.

AXIS Live Privacy Shield

Remotely monitor activities both indoors and outdoors while safeguarding privacy in real-time.

With AI-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.

Electronic image stabilization

Electronic image stabilization (EIS) provides smooth video in situations where a camera is subject to vibrations. Built-in gyroscopic sensors continuously detect the camera's movements and vibrations, and they automatically adjust the frame to ensure you always capture the details you need. Electronic image stabilization relies on different algorithms for modeling camera motion, which are used to correct the images.