

AXIS P1385-E Box Camera

Reliable 2 MP outdoor surveillance

This robust camera delivers excellent image quality in 2 MP. It can handle temperatures from -40 °C to 60 °C (-40 °F to 140 °F). A front heater ensures the lens is free of ice and fog. And Lightfinder 2.0 and Forensic WDR deliver true colors and great detail in challenging light or near darkness. Scene profiles can be automatically optimized for specific scenarios. PoE and redundant DC power ensure flexible installation. With a DLPU, you can run advanced features and powerful analytics on the edge. Furthermore, Axis Edge Vault safeguards your device and protects sensitive information from unauthorized access.

- > Excellent image quality in HDTV 1080p
- > -40 °C to 60 °C (-40 °F to 140 °F)
- > Robust and impact-resistant design
- > Analytics with deep learning
- > Built-in cybersecurity with Axis Edge Vault







AXIS P1385-E Box Camera

Camera

Image sensor

1/2.8" progressive scan RGB CMOS Pixel size 2.9 μm

Lens

Varifocal, 2.8–13 mm, F1.4 Horizontal field of view: 121°–26° Vertical field of view: 64°–15°

IR corrected, CS-mount lens, P-Iris control

Day and night

Automatically removable infrared-cut filter

Minimum illumination

1080p 25/30 fps with Forensic WDR and Lightfinder

2.0:

Color: 0.05 lux at 50 IRE, F1.4 **B/W:** 0.01 lux at 50 IRE, F1.4

1080p 50/60 fps with Lightfinder 2.0:

Color: 0.1 lux at 50 IRE, F1.4 B/W: 0.02 lux at 50 IRE, F1.4

1080p 25/30 fps with Forensic WDR and Lightfinder

2.0:

With optional F0.9 lens Color: 0.02 lux at 50 IRE, F0.9 B/W: 0.005 lux at 50 IRE, F0.9

Shutter speed

1/37000 s to 2 s with 50 Hz 1/37000 s to 2 s with 60 Hz

System on chip (SoC)

Model

ARTPEC-8

Memory

1024 MB RAM, 8192 MB 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

1920x1080 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

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 8 individually cropped out view areas

Noise reduction

Spatial filter (2D noise reduction)
Temporal filter (3D noise reduction)

Image settings

Contrast, brightness, sharpness, white balance, day/ night threshold, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay, dynamic text and image overlay, privacy masks, polygon privacy mask, target aperture

Scene profiles: forensic, vivid, traffic overview

^{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.

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0

Pan/Tilt/Zoom

Digital PTZ, preset positions Preset position tour, control queue, on-screen directional indicator Guard tour (max 100)

Audio

Features

Automatic gain control Speaker pairing

Streaming

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

Input

Input for external unbalanced microphone, optional 5 V microphone power
Digital input, optional 12 V ring power
Unbalanced line input

Output

Output through speaker pairing

Encoding

24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz

Network

Network protocols

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, specifications 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

Electronic image stabilization
Day/night shift
Defogging
Wide dynamic range
Video streaming indicator
Autofocus
Privacy masks
Media clip
Heater

Edge-to-edge

Microphone pairing Speaker pairing

Event conditions

Audio: audio detection, audio clip playing Device status: above/below/within operating temperature, casing open, IP address removed/blocked, 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, digital output, manual trigger, virtual input

MQTT: stateless

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

MQTT: publish

Notification: HTTP, HTTPS, TCP and email

Overlay text

Recordings: record, record while the rule is active SNMP traps: send, send while the rule is active Status LED: flash, flash 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

Leveling assistant, remote back focus

Analytics

Applications

Included:

AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics, AXIS Live Privacy Shield², AXIS Video Motion Detection

Supported:

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

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

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: confidence, position

Approvals

Product markings

UL/cUL, UKCA, CE, KC, EAC, VCCI, RCM

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, EN 55035,

EN 55032 Class A, EN 50121-4, EN 61000-6-1,

EN 61000-6-2 Japan: VCCI Class A

Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, 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, ISO 4892-2 NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9)

Network

NIST SP500-267, IPv6 USGv6

Cybersecurity

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

Cybersecurity

Edge security

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)³, IEEE 802.1AR, HTTPS/HSTS³, TLS v1.2/v1.3³, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering

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 Aluminum and plastic casing Weathershield with black anti-glare coating 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. This product can be repainted.

^{2.} Available for download

^{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).

Mounting

Camera stand included

Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 2 Class 4 Typical 3.87 W. max 25.5 W

10-28 V DC, typical 3.58 W, max 25.5 W

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/ 1000BASE-T PoE

I/O: 6-pin 2.5 mm terminal block for 2 supervised alarm inputs and 2 outputs (12 V DC output, max load 50 mA)

Audio: 3.5 mm mic/line in

Serial communication: RS485/RS422, 2 pcs, 2 pos, full

duplex, terminal block

Power: DC input, terminal block

Lens: i-CS connector (compatible with P-Iris and DC-

iris)

AXIS T92G20 connector

Storage

Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64

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) Wind load (sustained): 55 m/s (123 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): 0.06 m² (0.20 ft²)

Weight

3165 g (7.0 lb) including wall mount 2280 g (5.0 lb) for camera only

Box content

Camera, installation guide, terminal block connectors, AXIS TQ1003-E Wall Mount, owner authentication key

Optional accessories

AXIS Microphones, AXIS Midspans AXIS T8415 Wireless Installation Tool **AXIS Surveillance Cards** For more accessories, go to axis.com/products/axisp1385-e#accessories

System tools

AXIS Site Designer, AXIS Device Manager, AXIS Device Manager Extend, 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-p1385-e#partnumbers

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 echa.europa.eu

Materials

Renewable carbon-based plastic content: 36% (bio-

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

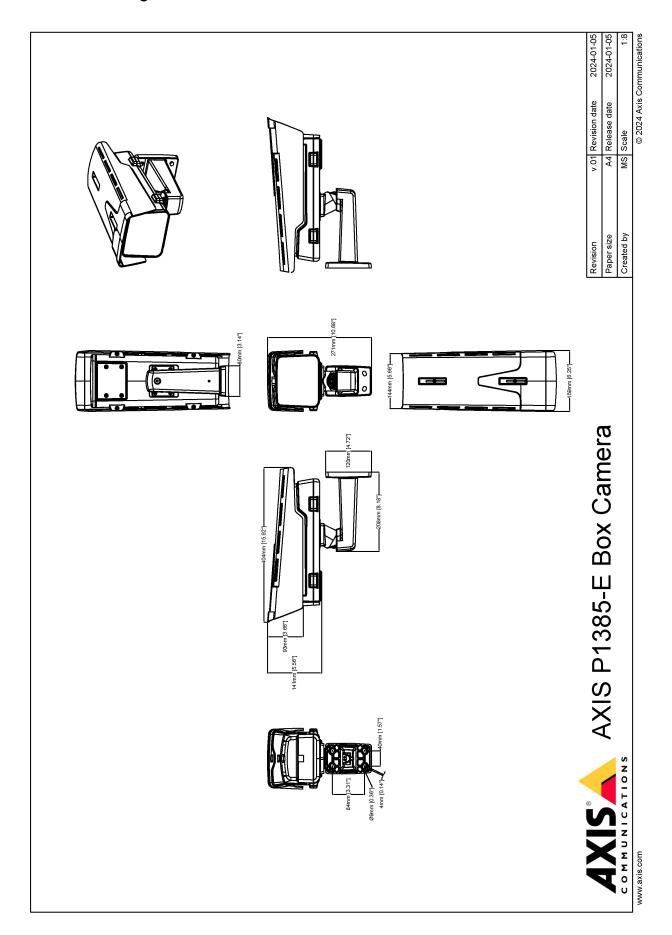
axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	38.8 m (127.1 ft)	168.4 m (522.6 ft)
Observe	63 px/m (19 px/ft)	15.4 m (50.5 ft)	66.8 m (219.3 ft)
Recognize	125 px/m (38 px/ft)	7.7 m (25.4 ft)	33.7 m (110.5 ft)
Identify	250 px/m (76 px/ft)	3.9 m (12.7 ft)	16.8 m (55.3 ft)

The DORI values are calculated using pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

Dimension drawing



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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.

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.

Forensic WDR

Axis cameras with wide dynamic range (WDR) technology make the difference between seeing important forensic details clearly and seeing nothing but a blur in challenging light conditions. The difference between the darkest and the brightest spots can spell

trouble for image usability and clarity. Forensic WDR effectively reduces visible noise and artifacts to deliver video tuned for maximal forensic usability.

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.

For more information, see axis.com/glossary

