

AXIS P3735-PLE Panoramic Camera

4x 2 MP multidirectional with deep learning

This multidirectional camera offers four channels with 2 MP per channel to deliver excellent overviews and detailed coverage. It includes 360° IR illumination for clear, reflection-free footage and excellent image quality even in low light or complete darkness. This flexible camera offers various mounting options. For instance, it can be recessed mounted for discreet surveillance or mounted in ceilings for complete 360° coverage. With highly efficient power consumption, it ensures lower operating costs. It also supports powerful analytics based on deep learning. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, guarantees the device's integrity and protects it from unauthorized access.

- > **4x 2 MP at 30 fps per channel**
- > **360° IR illumination with individually controlled LEDs**
- > **Flexible mounting options**
- > **Support for advanced analytics**
- > **Axis Edge Vault safeguards the device**



AXIS P3735-PLE Panoramic Camera

Camera

Image sensor

4x 1/2.8" progressive scan RGB CMOS
Pixel size 2.9 µm

Lens

Varifocal, 3.2–8.1 mm, F1.9–3.2
Horizontal field of view: 108°–40°
Vertical field of view: 55°–23°
Diagonal field of view: 131°–46°
Minimum focus distance: 0.5 m (1.6 ft)
Fixed iris, IR corrected, remote zoom and focus

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.14 lux at 50 IRE, F1.9
B/W: 0 lux at 50 IRE, F1.9
0 lux with IR illumination on

Shutter speed

WDR on: 1/28000 s to 1.5 s
WDR off: 1/31500 s to 1.5 s

Camera adjustment

Pan ±90°, tilt +25° to +95°, rotation -5° to +95°, twist ±20°

System on chip (SoC)

Model

ARTPEC-8

Memory

2048 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

4x 1920x1080 (4x HDTV 1080p) to 4x 320x180

Frame rate

Up to 25/30 fps (50/60 Hz) in all resolutions

Video streaming

Multiple, individually configurable streams in H.264, H.265 and Motion JPG
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

Noise reduction

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

Image settings

Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, tone mapping, exposure mode, exposure zones, 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

Image processing

Forensic WDR, Lightfinder, OptimizedIR

Audio

Audio input/output

Audio features through portcast technology: two-way audio connectivity with AXIS T61 Mk II

Audio streaming

Two-way (half duplex, full duplex) via network speaker pairing technology

Network

Network protocols

IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, 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/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), 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, 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

Autofocus
Video streaming indicator
IR illumination
Privacy masks
Media clip

Edge-to-edge

Speaker pairing

Event conditions

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, live stream active, casing open
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: manual trigger, virtual input
MQTT: stateless
Scheduled and recurring: schedule
Video: average bitrate degradation, day-night mode, tampering

Event actions

Day-night mode
Illumination: use lights, use lights 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

Built-in installation aids

Remote zoom and focus, pixel counter, barrel distortion correction

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, active tampering alarm

Supported

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

Multisensor analytics

4 channels analytics support²

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

2. For more information, go to the User manual on axis.com.

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 8 scenarios

Other features: triggered objects visualized with trajectories, and 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

Confidence, position

Object attributes: vehicle color, upper/lower clothing color, confidence, position

Approvals

Product markings

CSA, 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 61000-3-2, 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, RCM AS/NZS 62368.1:2022,

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 IK09, ISO 21207 (Method B), MIL-STD-810H (Method 501.7, 502.7, 505.7 506.6, 507.6 509.7, 512.6), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), VDMA 24364

Network

NIST SP500-267, IPv6 USGv6

Cybersecurity

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

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication, password protection, Axis Cryptographic Module (FIPS 140-2 level 1)

Hardware: Axis Edge Vault cybersecurity platform TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), 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)³, 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

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 IK09-rated

Polycarbonate hard-coated dome

Aluminum and plastic casing, polycarbonate (PC) dome
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.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon)
1/2" (M20) conduit side entry

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).

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
IR illumination on: class 4, typical 12.20 W, max 23.15 W
IR illumination off: class 3, typical 6.30 W, max 12.05 W

Connectors

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

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs
Range of reach 30 m (98.4 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

-30 °C to 50 °C (-22 °F to 122 °F)
Humidity 10–100% RH (condensing)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)

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): 0.022 m² (0.24 ft²)

Weight

2 kg (4.4 lb)

Box content

Camera, installation guide, connector guard, cable gaskets

Optional accessories

AXIS TP3105-E Pendant Kit Black, AXIS TP3204-E Recessed Mount, AXIS TP3832-E Dome Smoked, AXIS TP3833-E Dome Casing Black, AXIS T94N01D Pendant Kit, AXIS TP3004-E Wall Mount Black, AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
For more accessories, go to axis.com/products/axis-p3735-ple#accessories

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-p3735-ple#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 echa.europa.eu

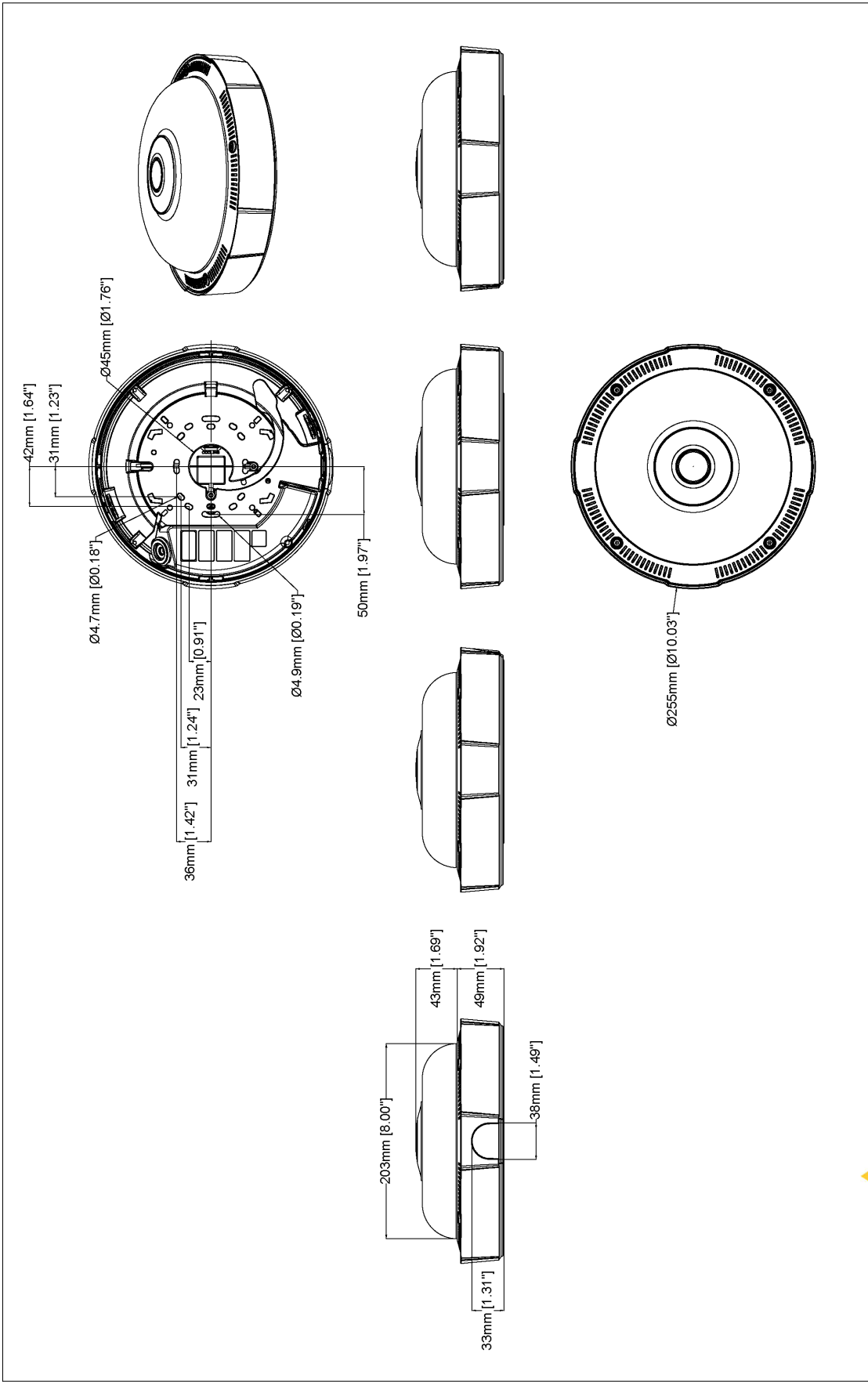
Materials

Renewable carbon-based plastic content: 17% (recycled: 9%, bio-based: 1%, carbon capture based: 7%)
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

Dimension drawing



Revision	v.01	Revision date	2023-05-15
Paper size	A4	Release date	2023-05-15
Created by	MF	Scale	1:5

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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 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 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.

Zipstream

The Axis Zipstream technology preserves all the important forensic in the video stream while lowering bandwidth and storage requirements by an average of 50%. Zipstream also includes three intelligent algorithms, which ensure that relevant forensic information is identified, recorded, and sent in full resolution and frame rate.

For more information, see axis.com/glossary