

Dear Sir or Madam,

CyberTech Security is pleased to submit this proposal in response to the City of Tupelo's Request for Proposals. **RFP No. 2026-027BA**

CyberTech Security is a woman-owned, Mississippi-based systems integrator proudly headquartered in Senatobia and has continuously served Mississippi counties, municipalities, school districts, and public-sector organizations since 1991. For more than three decades, we have provided integrated security and technology solutions throughout the state, earning a reputation for quality workmanship, technical expertise, and responsive customer support.

Our team specializes in the design, installation, and maintenance of video surveillance systems, network infrastructure, access control systems, audio/visual technologies, and wireless communications solutions. As a long-standing Mississippi integrator, we understand the operational requirements, security expectations, and accountability necessary to support critical public safety infrastructure and municipal operations.

CyberTech is pleased to offer a fully Ethernet-based, standards-compliant surveillance solution designed to meet the City's current operational requirements while providing a scalable platform capable of supporting future growth and expansion. Our proposed system delivers enhanced reliability, improved image quality, streamlined management, and long-term operational value.

The total bid price for this project is **\$425,474.71**, which includes all equipment, labor, cabling materials, installation services, system configuration, testing, commissioning, documentation, training, and a comprehensive five-year parts and a one-year labor warranty covering all equipment and infrastructure provided under our scope of work. This pricing represents a complete turnkey solution delivered and supported by an experienced Mississippi-based integration team.

CyberTech brings extensive experience implementing mission-critical security and network infrastructure within government, educational, and municipal environments. We are committed to executing this project with minimal disruption to City operations while maintaining strict adherence to applicable codes, industry standards, manufacturer requirements, and project specifications.

Should you require any additional information or clarification regarding our proposal, please do not hesitate to contact us. **Respectfully submitted,**



Marcus E. Holmes
CyberTech Security



City of Tupelo - RFP No. 2026-027BA

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City of Tupelo –Finance Office
Attn: Purchasing Department
RFP: 2026-027BA PSVC EPL
71 East Troy Street
PO Box 1485
Tupelo, MS 38804

Axis products

Prepared for
City of Tupelo –Finance Office
Attn: Purchasing Department
RFP: 2026-027BA PSVC EPL
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	Part number	Quote price	Quantity	Total
Cameras				
AXIS M3077-PLVE	02018-001	739.00	14	10,346.00
AXIS M3088-V	02375-001	439.00	4	1,756.00
AXIS M3125-LVE White	02916-001	379.00	2	758.00
AXIS M3126-LVE White	02918-001	479.00	3	1,437.00
AXIS M3215-LVE	02371-001	569.00	6	3,414.00
AXIS M4216-LV	02113-001	463.00	1	463.00
AXIS P1265 Mk II	02858-001	359.00	1	359.00
AXIS P1487-LE	03183-001	745.00	14	10,430.00
AXIS P3278-LV	03154-001	899.00	57	51,243.00
AXIS P3818-PVE	02060-001	1,799.00	10	17,990.00
AXIS Q1805-LE	02504-001	1,299.00	2	2,598.00

	Part number	Quote price	Quantity	Total
Recording				
AXIS S1232 Rack 32 TB	02538-001	11,469.00	2	22,938.00
AXIS S1264 Rack 64 TB	02540-001	15,580.00	1	15,580.00
AXIS S1296 Rack 96 TB	02542-001	19,650.00	4	78,600.00
Accessories				
AXIS 30 W Outdoor Midspan	01944-001	289.00	9	2,601.00
AXIS T91A23 Tile Grid Ceiling Mount 4 pcs	01612-001	94.00	2 × 4 pcs	188.00
AXIS T91B47 Pole Mount 50-150 mm	01165-001	94.00	1	94.00
AXIS T94B02M J-Box/Gang Box Plate	5801-421	41.00	5	205.00
AXIS T94F01M J-Box/Gang Box Plate	5503-921	41.00	13	533.00
AXIS T94S01P Conduit Back Box	01190-001	139.00	30	4,170.00
AXIS TF1902-RE Mounting Bracket 4 pcs	02214-001	10.00	1 × 4 pcs	10.00
AXIS TP3603 Conduit Back Box	02025-001	63.00	77	4,851.00
Axis products total amount (USD)				230,564.00

Other products

	Part number	Quote price	Quantity	Total
Miscellaneous				
3FT CAT6A YELLOW BOOTED CM	6A130-003	3.89	114	443.46
5FT CAT6A YELLOW BOOTED CM	6A130-005	4.99	114	568.86
CAT 6A 10G JACK YELLOW	6110G-RY6	11.99	228	2,733.72
CJ12H 3/4 IN JHOOK WIDE BASE W/RETAINER	CJ12H	1.69	500	845.00

	Part number	Quote price	Quantity	Total
CJ32H 2 IN JHOOK WIDE BASE W/RETAINER	CJ32H	3.29	1500	4,935.00
FortiSwitch-348G-FPOE 3 Year FortiCare Premium Support	FC-10-348GF-247-02-36	1,365.00	1	1,365.00
FortiSwitch-348G-FPOE Layer 2/3 FortiGate switch controller comp	FortiSwitch-348G-FPOE Switch	4,778.00	1	4,778.00
GigaSPEED® X10D 2091B Cat 6a Plenum, 4 Pair Cable, Blue, 1000 Ft	6AP4P24-BL-P -CMS-AP	749.00	35	26,215.00
PATCH PANEL 24P MODULAR 1U UNLOADED	49255-H24	59.00	8	472.00
PATCH PANEL 48P MODULAR 2U UNLOADED	49255-H48	89.00	2	178.00
Other products total amount (USD)				42,534.04

Services

	Part number	Quote price	Quantity	Total
Installation service				
CTS -Turnkey cameras, & NVR Installation labor -listed below	CTS -Turnkey cameras, & NVR Installation labor -listed below	152,376.67	1	152,376.67
Includes 5year Axis & 1 year CTS workmanship warranty	Includes 5year Axis & 1 year CTS workmanship warranty	-	1	-
includes all camera mounting & removal of old equipment	includes all camera mounting & removal of old equipment	-	1	-
Includes all configuration and testing for all devices	Includes all configuration and testing for all device	-	1	-
Includes all new Cat6a cabling & network termination per site	Includes all new Cat6a cabling & network termination per site	-	1	-
Includes commissioning of system and staff training	Includes commissioning of system and staff training	-	1	-
Services total amount (USD)				152,376.67

Products and services total cost:
\$425,474.71

Sales quote valid until 6/30/2026

Prices shown in USD and excluding taxes

CyberTech Security – Scope of Work

City of Tupelo Axis Security Camera Replacement & Infrastructure Upgrade

Projected Duration after start: 12 Weeks - All timelines are based on material availability, weather conditions, and site access:

Contractor: CyberTech Security

Project Overview

CyberTech Security (CTS) will provide a complete turnkey replacement of the City of Tupelo's existing video surveillance infrastructure. The project includes the removal of existing cameras, installation of 113 new Axis IP cameras, installation of seven (7) new Axis Camera Station recording servers, deployment of new Category 6A structured cabling, system configuration, testing, training, and final commissioning.

The upgraded solution will provide a fully scalable, enterprise-grade video surveillance platform utilizing Axis Camera Station (ACS) Video Management Software with perpetual licensing included. No recurring camera licensing fees will be required for the life of the servers installed.

Scope of Work

Phase 1 – Project Management & Engineering

CTS shall provide:

- Dedicated Project Manager
- Project kickoff meeting with City of Tupelo IT and Facilities personnel
- Review of camera locations and recording requirements
- Network coordination with City IT staff
- Installation scheduling and site access coordination
- Development of implementation schedule and milestone tracking
- Weekly project status reporting

Engineering Deliverables

- Camera location verification
 - Recording storage calculations
 - IP addressing coordination
 - Network closet & Rack reviews
 - Working with IP on network switch configuration requirements
-

Phase 2 – Existing System Removal

CTS will:

- Remove 113 existing cameras
- Remove existing legacy NVR equipment
- Remove abandoned cabling where accessible
- Remove unused mounting hardware where applicable
- Dispose of equipment in accordance with City requirements

CTS will maintain video coverage whenever possible through phased cutovers.

Phase 3 – Category 6A Infrastructure Installation

CTS will furnish and install new plenum-rated Category 6A cabling to all camera locations.

Cabling Standards

All cabling shall comply with:

- ANSI/TIA standards
- ANSI/BICSI 005-2016
- NEC requirements
- Manufacturer installation requirements

Cabling Scope

- New Cat6A cable to all 113 camera locations
- Cable pathway utilization where available
- Proper cable support systems
- Hook-and-loop cable management
- Labeling of all cables
- Termination and testing of all cable drops
- Patch panel termination at designated network racks
- Certification testing of each cable run

Materials

CTS shall provide enterprise-grade cabling components including:

- Commscope Category 6A
- Leviton patch panels
- Leviton Category 6A jacks
- Cable management hardware
- Cat6a Patch cords
- Labeling materials

Uniform Infrastructure for each site

CTS shall install:

- New Cat6A cabling for all camera locations
 - New 24 & 48 port patch panels
 - Terminations within each IT room
 - Testing and certification of all installed cabling
-

Phase 4 – Axis Camera Installation

CTS will furnish, install, and configure:

Total Cameras Installed

- 113 Axis IP cameras

Camera Types Include

- Axis Q1805-LE Bullet Cameras
- Axis P3818-PVE Panoramic Cameras
- Axis P3268-LVE Dome Cameras
- Axis P1467-LE Bullet Cameras
- Axis M3215-LVE Dome Cameras
- Axis M3125-LVE / M3126-LVE Dome Cameras
- Axis M3077-PLVE Cameras
- Axis M3088-V Cameras
- Axis P1265 Mk II Modular Cameras
- Axis M4216-LV Cameras

Camera Installation Services

- Mounting and alignment
- Network connectivity
- Firmware updates
- Camera naming conventions
- Focus and field-of-view adjustments
- Motion detection configuration
- Recording profile configuration
- Operational testing

Phase 5 – Axis Camera Station Server Deployment

CTS will install and configure:

Seven (7) Axis Camera Station Servers

Server deployment shall include:

- Rack mounting where needed
- Network connectivity
- Firmware updates
- Storage configuration
- Recording retention setup

Axis ACS Video Management Software

CTS will provide:

- Axis - Camera Station Video Management Software
- Full integration of all 113 cameras with expansion capabilities
- Centralized video management
- Administrative account creation
- Operator account creation
- User permissions setup

Licensing Advantage

CyberTech Security's proposed solution includes:

- Perpetual camera licensing
- No annual software subscription fees
- No recurring camera licensing costs
- No VMS renewal costs for the life of the server hardware

Phase 6 – Network & System Configuration

CTS shall:

- Coordinate IP addressing with City IT
- Configure camera network settings
- Configure recording schedules
- Configure retention policies
- Configure motion events
- Configure remote viewing capabilities
- Configure system notifications
- Remove all default passwords
- Create City administrator accounts
- Verify cybersecurity compliance in IT

Phase 7 – Testing & Quality Assurance

CTS shall perform:

Infrastructure Testing

- 100% cable certification testing
- Network connectivity verification
- PoE verification where necessary
- Bandwidth validation

Camera Testing

- Live video verification
- Recording verification
- Motion detection verification
- Camera positioning and views validation

Server Testing

- Recording functionality
 - Playback functionality
 - User access verification
 - Storage verification
-

Project Milestones

Week 1

Project Kickoff & Procurement

- Kickoff meeting
- Final site verification
- Material ordering
- Design review

Milestone 1: Project Initiation Complete

Weeks 2–4

Infrastructure Installation per location priority

- Staging Axis materials
- Install Cat6A cabling
- Install patch panels
- Label and certify cabling
- Prepare rack infrastructure

Milestone 2: Network Infrastructure Complete per site

Weeks 5–7

Camera Installation

- Remove existing cameras
- Install new Axis cameras
- Perform field alignment
- Initial camera configuration

Milestone 3: All Cameras Installed

Weeks 8–9

Server Installation & ACS Deployment

- Install seven ACS servers
- Configure storage
- Configure VMS
- Integrate all cameras

Milestone 4: Recording Platform Operational

Weeks 10–11

System Integration & Testing

- Complete configuration
- Conduct system testing
- Correct deficiencies
- Validate recording retention

Milestone 5: System Acceptance Testing Complete

Week 12

Training & Final Commissioning

- End-user training
- Administrative training
- Delivery of documentation
- Final walkthrough
- Owner acceptance

Milestone 6: Final System Commissioned and Accepted

Final Commissioning Deliverables

Upon completion, CTS shall provide:

- Fully operational Axis Camera Station system
- All 113 cameras online and recording
- Seven configured ACS recording servers
- Certified Cat6A test reports
- IP address schedule
- User account documentation
- Warranty documentation
- Training completion documentation
- Final commissioning

Warranty & Support

Upon completion, the City of Tupelo will receive a fully commissioned, enterprise-grade Axis video surveillance system consisting of 113 cameras, seven recording servers, new BICSI-compliant Category 6A infrastructure, and perpetual Axis Camera Station licensing with no recurring software costs for the life of the server hardware.

CyberTech Security (CTS) will provide a comprehensive warranty and support program to ensure the long-term reliability and performance of the installed video surveillance system.

CTS Workmanship Warranty

CTS will provide a one (1) year workmanship warranty covering all installation labor, cabling, terminations, device mounting, programming, and system configuration performed as part of this project. Any defects resulting from installation workmanship during the warranty period will be corrected at no cost to the City of Tupelo.

Manufacturer Warranty

All Axis cameras, recording servers, and associated hardware supplied under this project will be covered by Axis Communications' standard five (5) year manufacturer's warranty. CTS will assist the City of Tupelo with warranty coordination, replacement processing, and manufacturer support throughout the warranty period.

Technical Support

CTS will provide local Mississippi-based technical support, remote troubleshooting assistance, and on-site service response when required. Support requests will be handled by CTS certified technicians familiar with the installed Axis Camera Station environment.

Optional Extended Service Agreement

Upon request, CTS can provide an additional five (5) year service and maintenance agreement following project completion. This optional agreement may include preventative maintenance inspections, firmware updates, system health checks, priority service response, technical support, and replacement of failed components in accordance with the terms of the service agreement.

CTS remains committed to providing responsive service and long-term support to ensure the City's investment continues to operate at peak performance for years to come.



Software



AXIS Camera Station Pro

Verified to ensure smooth operations with Axis IP products including network cameras, body worn cameras, door controllers, intercoms, speakers, analytics, as well as third-party cameras, this feature-rich, server-based VMS combines video and access control for efficient and active security. It provides the flexibility you need to fully control your system on your private network with optional cloud connectivity. It's easy to manage video and access control. The intuitive interface includes live view, data insight dashboard, replay, AI based search, export, video redaction for protection of third-party privacy, and a powerful action rule engine. Secure standards and built-in cybersecurity features enable secure behavior.

Cameras



14 × AXIS M3077-PLVE

With its 6 MP sensor, AXIS M3077-PLVE offers excellent image quality and a complete 180° or 360° overview, indoors or out, around the clock. It features two built-in microphones allowing for audio surveillance and detection. This compact mini dome offers dewarped views such as panorama, quad, corner, and corridor views directly from the camera. It includes Axis Lightfinder and Axis Forensic WDR for true colors and great details in challenging light or near darkness. And, Axis OptimizedIR for surveillance in pitch darkness.

HDTV 1080p / 4.1 megapixel Zipstream, Lightfinder, Forensic WDR Built-in IR Outdoor ready

\$10,346

System proposal

City of Tupelo - RFP No. 2026-027BA



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4 × AXIS M3088-V

This cost-efficient mini dome features Wide Dynamic Range (WDR) to ensure clarity even when there's both dark and light areas in the scene. A deep learning processing unit enables intelligent analytics based on deep learning on the edge. Plus, AXIS Object Analytics including time in area feature lets you track whenever an object stays in a defined area longer than a user-defined time, for example, to detect loitering. This compact, easy-to-install, vandal-resistant camera comes factory focused so there's no manual focusing required. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

HDTV 4K Zipstream, Audio support, Vandal resistant

\$1,756



2 × AXIS M3125-LVE White

This AI-powered camera offers flexible installation both indoors and outdoors. With a turret-style design, it suppresses light reflections and delivers great 2 MP image quality and usability. And OptimizedIR allows for surveillance in complete darkness. It comes preinstalled with AXIS Object Analytics to detect, classify, track and count objects like humans and vehicles. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operations. This weatherproof camera is IP66-rated and has an operating temperature range from -30 °C to 50 °C (-22 °F to 122 °F).

HDTV 1080p Zipstream, Lightfinder, Built-in IR Outdoor ready Vandal resistant

\$758



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3 × AXIS M3126-LVE White

This AI-powered camera offers flexible installation both indoors and outdoors. With a turret-style design, it suppresses light reflections and delivers great 4 MP image quality and usability. And OptimizedIR allows for surveillance in complete darkness. It comes preinstalled with AXIS Object Analytics to detect, classify, track and count objects like humans and vehicles. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operations. This weatherproof camera is IP66-rated and has an operating temperature range from -30 °C to 50 °C (-22 °F to 122 °F).

HDTV 1080p / 4.1 megapixel Zipstream, Lightfinder, Built-in IR Outdoor ready Vandal resistant

\$1,437



6 × AXIS M3215-LVE

This cost-effective fixed focal dome offers Lightfinder, Forensic WDR, and OptimizedIR, and ensures excellent image quality under any light conditions. Built on ARTPEC-8, it includes a deep learning processing unit enabling powerful analytics based on deep learning on the edge. Plus, it delivers valuable metadata facilitating fast, easy, and efficient forensic search capabilities. And AXIS Object Analytics offers detection and classification of humans, vehicles, and types of vehicles—all tailored to your specific needs. Featuring audio and I/O connectivity, you can integrate for instance a microphone to extend the value of your system. Furthermore, built-in cybersecurity features safeguard your system.

HDTV 1080p Zipstream, Lightfinder, Forensic WDR Built-in IR Outdoor ready

\$3,414



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AXIS M4216-LV

Featuring Lightfinder, WDR, and OptimizedIR, this compact and discreet dome delivers great image quality—day and night, even in low light. A deep learning processing unit (DLPU) lets you take advantage of intelligent analytics based on deep learning on the edge. Designed to blend into any environment, it can be repainted and offers a range of accessories for discreet monitoring. Plus, it features an HDMI port and the flexibility to add audio and I/O connectivity using AXIS T61 Series. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- HDTV 1080p / 4 megapixel
- Zipstream, Lightfinder, Built-in IR
- Audio support
- Vandal resistant

\$463



57 × AXIS P3278-LV

This AI-powered camera delivers excellent image quality in 8 MP under any light conditions. Built on ARTPEC-9, it offers accelerated performance to run impressive analytics applications on the edge. It comes with AXIS Object Analytics to detect, classify, track, and count humans. In addition, AXIS Live Privacy Shield makes it easy to remotely monitor activities while protecting privacy. This robust, IK10- and NEMA 4X-rated camera is both vandal- and impact-resistant. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and protects sensitive information from unauthorized access.

- HDTV 4K
- Zipstream, Lightfinder, Forensic WDR
- Built-in IR
- P-Iris

\$51,243



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10 × AXIS P3818-PVE

AXIS P3818-PVE delivers a 180° panoramic overview of extensive areas with ultra-high resolution images and incredible details up to 30 fps. With 13 MP resolution and seamless stitching of all three images, it offers 180° horizontal and 90° vertical coverage with no blind spots. Including a variety of mounting options, it's also possible to mount two cameras back-to-back for a complete 360° overview, using AXIS T94V01C Dual Camera Mount. Featuring edge-to-edge technology, it's easy to add support for audio enabling you to listen in to transactions or incidents. Additionally, built-in cybersecurity features prevent unauthorized access and safeguard your system.

- 13.1 megapixel
- Zipstream, Lightfinder, Forensic WDR
- Outdoor ready
- Audio support

\$17,990



AXIS P1265 Mk II

Based on the modular concept, AXIS P1265 Mk II features a tiny, pinhole-sized sensor unit that connects via cable to the main unit, so the two parts can be placed separately from each other. This pinhole sensor unit offers extremely discreet installation. Ideal for a wide range of indoor applications, it's easy to install in tight spaces, for instance, ATMs and ticketing machines. The sensor can be mounted up to 15 m from the main unit and a detachable cable ensures flexible installation and upgrade. Additionally, a deep learning processing unit enables the use of advanced analytics.

- HDTV 1080p
- Zipstream, Replaceable lens

\$359



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14 × AXIS P1487-LE

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.

5 megapixel Zipstream, Lightfinder, Electronic image stabilization Forensic WDR Built-in IR

\$10,430



2 × AXIS Q1805-LE

AXIS Q1805-LE delivers HDTV 1080p at 90 fps and 32x optical zoom for all the details. This easy-to-install camera features IDC network connectors as well as a spacious back box for secure cable management. With PoE-out, it can power other devices such as a strobe siren or audio speaker. A deep learning processing unit makes it possible to take advantage of intelligent tailor-made applications based on deep learning on the edge. And, with AXIS Object Analytics it's possible to detect and classify moving objects. Furthermore, Axis Edge Vault safeguards your device and offers secure key storage with FIPS 140-2 level 2 certification.

HDTV 1080p Zipstream, Lightfinder, Electronic image stabilization Forensic WDR Built-in IR

\$2,598



Recording solution



2 × AXIS S1232 Rack 32 TB

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in two variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

\$22,938



AXIS S1264 Rack 64 TB

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in three variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

\$15,580

System proposal

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4 × AXIS S1296 Rack 96 TB

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in two variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

\$78,600

System proposal

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Summary

Products	\$260,446
Accessories *	\$12,652
Services *	\$152,377
Total	\$425,475

Total: \$425,474.71

Prices shown in USD and excluding taxes
* See full sales quote for details



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Ballard Park New camera 1

2 x AXIS M3125-LVE White

Bandwidth

1.36

Mbit/s

Storage

440

GB

Power

24

W

Product highlights

- Great image quality in 2 MP
- WDR, Lightfinder, and OptimizedIR
- Available in black or white
- AI-based video analytics
- Built-in cybersecurity with Axis Edge Vault

Accessories

1 AXIS T94B02M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box



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Ballard Park New camera 2

1 x AXIS M3215-LVE

Bandwidth

355

kbit/s

Storage

115

GB

Power

12

W

Product highlights

- Excellent image quality in 2 MP
- Lightfinder, Forensic WDR, OptimizedIR
- Analytics with deep learning
- Audio and I/O connectivity
- Built-in cybersecurity features

Accessories

1 AXIS TP3603 Conduit Back Box



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Ballard Park New camera 3

4 x AXIS P3818-PVE

Bandwidth
10.4
Mbit/s

Storage
3.35
TB

Power
80
W

Accessories

1 AXIS TP3603 Conduit Back Box

Product highlights

- 13 MP multisensor camera with one IP address
- 180° horizontal, 90° vertical coverage
- Seamlessly stitched images
- Support for audio input
- Built-in cybersecurity features



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Ballard Park New camera 4

2 x AXIS Q1805-LE

Bandwidth
1.39
Mbit/s

Storage
450
GB

Power
60
W

Accessories

1 AXIS TP3603 Conduit Back Box

Product highlights

- Outstanding image quality in 1080p
- PoE-out to power an additional device
- Analytics with deep learning
- Electronic image stabilization
- Axis Edge Vault safeguards device



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Ballard Park New camera 5 - P1467-LE

1 x AXIS P1487-LE

Bandwidth

1.28

Mbit/s

Storage

413

GB

Power

15.4

W

Accessories

1 AXIS T91B47 Pole Mount 50-150 mm

Product highlights

- 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



Marcus E. Holmes
Cyber Technology Security
226-E Main St.
Senatobia, MS 38668
www.ctspage.com
Cell: 901-570-1289
Office: 1-662-562-7484



Ballard Park New camera 6- P3268-LV

6 x AXIS P3278-LV

Bandwidth

19.8

Mbit/s

Storage

6.41

TB

Power

92.4

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box



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City Hall New camera 1

1 x AXIS M4216-LV

Bandwidth

1.92

Mbit/s

Storage

621

GB

Power

11

W

Accessories

1 AXIS T91A23 Tile Grid Ceiling Mount

Product highlights

- Great image quality in 4 MP
- Varifocal lens with remote zoom and focus
- Lightfinder, WDR, and OptimizedIR
- Analytics with deep learning
- HDMI output for public viewing monitors



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City Hall New camera 2

3 x AXIS M3215-LVE

Bandwidth

1.07

Mbit/s

Storage

345

GB

Power

36

W

Product highlights

- Excellent image quality in 2 MP
- Lightfinder, Forensic WDR, OptimizedIR
- Analytics with deep learning
- Audio and I/O connectivity
- Built-in cybersecurity features

Accessories

1 AXIS TP3603 Conduit Back Box

System proposal

City of Tupelo - RFP No. 2026-027BA



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City Hall New camera 3

2 x AXIS M3126-LVE White

Bandwidth

4.47

Mbit/s

Storage

1.45

TB

Power

24

W

Product highlights

- Great image quality in 4 MP
- WDR, Lightfinder, and OptimizedIR
- Available in black or white
- AI-based video analytics
- Built-in cybersecurity with Axis Edge Vault

Accessories

1 AXIS T94B02M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box



City Hall New camera 4 - P1467-LE

4 x AXIS P1487-LE

Bandwidth
5.10
Mbit/s

Storage
1.65
TB

Power
61.6
W

Accessories

1 AXIS T94F01M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box

Product highlights

- 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



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Huntington Bank New camera - P3268-LV

25 x AXIS P3278-LV

Bandwidth

82.4

Mbit/s

Storage

26.7

TB

Power

385

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box



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Metro Fuel Station New camera 1 - P3268-LV

1 x AXIS P3278-LV

Bandwidth

2.02

Mbit/s

Storage

654

GB

Power

15.4

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box



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Metro Fuel Station New camera 2

3 x AXIS M3077-PLVE

Bandwidth
2.62
Mbit/s

Storage
850
GB

Power
42
W

Accessories

1 AXIS T94S01P Conduit Back Box

Product highlights

- Complete 180° and 360° overview
- Lightfinder, Forensic WDR and Optimized IR
- Digital PTZ and dewarped views
- Built-in microphones
- Enhanced security features



Municipal Court New camera 1 - P1467-LE

2 x AXIS P1487-LE

Bandwidth
2.55
Mbit/s

Storage
827
GB

Power
30.8
W

Accessories

1 AXIS T94F01M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box

Product highlights

- 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



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Municipal Court New camera 2

4 x AXIS M3088-V

Bandwidth
8.28
Mbit/s

Storage
2.68
TB

Power
18
W

Accessories

1 AXIS T91A23 Tile Grid Ceiling Mount

Product highlights

- Great image quality in 8 MP
- Compact, discreet design
- WDR for challenging light
- Support for analytics with deep learning
- Built-in cybersecurity features



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Municipal Court New camera 3

1 x AXIS P1265 Mk II

Bandwidth
1.29
Mbit/s

Storage
419
GB

Power
4.5
W

Accessories

1 AXIS TF1902-RE Mounting Bracket

Product highlights

- Tiny, pinhole-sized sensor unit
- HDTV 1080p with 91° field of view
- Detachable cable up to 15 m
- Support for advanced analytics
- AXIS Object Analytics preinstalled



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Municipal Court New camera 4

2 x AXIS M3215-LVE

Bandwidth

710
kbit/s

Storage

230
GB

Power

24
W

Product highlights

- Excellent image quality in 2 MP
- Lightfinder, Forensic WDR, OptimizedIR
- Analytics with deep learning
- Audio and I/O connectivity
- Built-in cybersecurity features

Accessories

1 AXIS TP3603 Conduit Back Box



Public Works New camera 1

2 x AXIS P3818-PVE

Bandwidth

5.18

Mbit/s

Storage

1.68

TB

Power

40

W

Accessories

1 AXIS TP3603 Conduit Back Box

Product highlights

- 13 MP multisensor camera with one IP address
- 180° horizontal, 90° vertical coverage
- Seamlessly stitched images
- Support for audio input
- Built-in cybersecurity features

System proposal

City of Tupelo - RFP No. 2026-027BA



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Public Works New camera 2

1 x AXIS M3126-LVE White

Bandwidth

1.47

Mbit/s

Storage

476

GB

Power

12

W

Product highlights

- Great image quality in 4 MP
- WDR, Lightfinder, and OptimizedIR
- Available in black or white
- AI-based video analytics
- Built-in cybersecurity with Axis Edge Vault

Accessories

1 AXIS T94B02M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box



Public Works New camera 3- P3268-LV

1 x AXIS P3278-LV

Bandwidth

3.30

Mbit/s

Storage

1.07

TB

Power

15.4

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box



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Theron Park New camera 1

9 x AXIS M3077-PLVE

Bandwidth
13.2
Mbit/s

Storage
4.28
TB

Accessories

1 AXIS 30 W Outdoor Midspan

1 AXIS T94S01P Conduit Back Box

Product highlights

- Complete 180° and 360° overview
- Lightfinder, Forensic WDR and Optimized IR
- Digital PTZ and dewarped views
- Built-in microphones
- Enhanced security features



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Tupelo Aquatic Center New camera 1

4 x AXIS P3818-PVE

Bandwidth

15.9

Mbit/s

Storage

5.15

TB

Power

80

W

Accessories

1 AXIS TP3603 Conduit Back Box

Product highlights

- 13 MP multisensor camera with one IP address
- 180° horizontal, 90° vertical coverage
- Seamlessly stitched images
- Support for audio input
- Built-in cybersecurity features



Tupelo Aquatic Center New camera 2

2 x AXIS M3077-PLVE

Bandwidth
2.93
Mbit/s

Storage
951
GB

Power
28
W

Accessories

1 AXIS TP3603 Conduit Back Box

Product highlights

- Complete 180° and 360° overview
- Lightfinder, Forensic WDR and Optimized IR
- Digital PTZ and dewarped views
- Built-in microphones
- Enhanced security features



Tupelo Fire Station #2 New camera 1 - P1467-LE

7 x AXIS P1487-LE

Bandwidth

8.93

Mbit/s

Storage

2.89

TB

Power

107.8

W

Accessories

1 AXIS T94F01M J-Box/Gang Box Plate

1 AXIS T94S01P Conduit Back Box

Product highlights

- 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



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Tupelo Fire Station #2 New camera 3- P3268-LV

1 x AXIS P3278-LV

Bandwidth

3.30

Mbit/s

Storage

1.07

TB

Power

15.4

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box



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Tupelo Police Dept New camera - P3268-LV

23 x AXIS P3278-LV

Bandwidth

75.8

Mbit/s

Storage

24.6

TB

Power

354.2

W

Product highlights

- Great image quality in 8 MP
- Next-generation AI-powered analytics
- Lightfinder 2.0 and Forensic WDR
- Audio and I/O connectivity
- Built-in cybersecurity with Axis Edge Vault
- Excellent image quality in 8 MP

Accessories

1 AXIS TP3603 Conduit Back Box

System proposal

City of Tupelo - RFP No. 2026-027BA



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Recording solution

System requirements

Channels	Bandwidth	Storage	Power
114	0.27	89.7	1.59
	Gbit/s	TB	kW

Recording solution specification

Channels	Bandwidth	Storage	Power
824	7.85	424	0.00
	Gbit/s	TB	kW



Michael Watson

SECRETARY OF STATE

Office of the Secretary of State
Jackson, Mississippi

Certificate of Good Standing

I, MICHAEL WATSON, Secretary of State of the State of Mississippi, and as such, the legal custodian of the records as required by the laws of Mississippi, to be filed in my office, do hereby certify:

That on the 6th day of August, 1992, the State of Mississippi issued a Charter/ Certificate of Authority to:

SOUTHERN COMPUTER SYSTEMS, INC.

That the state of incorporation is Mississippi.

That the period of duration is perpetual.

That according to the records of this office, Articles of Dissolution or a Certificate of Withdrawal have not been filed.

That according to the records of this office, a current Annual Report has been delivered to the Office of the Secretary of State.

I further certify that all fees, taxes and penalties owed to this state, as reflected in the records of the Secretary of State, have been paid and that the corporation is in existence or has authority to transact business in Mississippi.

That insofar as the records of this office are concerned, the said SOUTHERN COMPUTER SYSTEMS, INC. is in good standing at this time.

Given under my hand and seal of office
the 2nd day of June, 2026

A handwritten signature in black ink that reads "Michael Watson".

Certificate Number: CN26243163

Verify this certificate online at <http://corp.sos.ms.gov/corpcnv/verifycertificate.aspx>

Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the
requester. Do not
send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See Specific Instructions on page 3.	1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) Southern Computer Systems, Inc	
	2 Business name/disregarded entity name, if different from above. Cyber Technology Security	
	3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. ☐ Individual/sole proprietor ☐ C corporation ☒ S corporation ☐ Partnership ☐ Trust/estate ☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. ☐ Other (see instructions) _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
	3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐	
	5 Address (number, street, and apt. or suite no.). See instructions. 226 East Main Street, Suite E	Requester's name and address (optional) City of Tupelo 71 East Troy Street Tupelo, MS 38804
6 City, state, and ZIP code Senatobia, MS 38668		
7 List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
			-				-		
or									
Employer identification number									
6	4	-	0	8	2	3	3	0	7

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person <i>Sue Brewer</i>	Date <i>6-8-2026</i>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they



SOUTCOM-11

ANULL

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/8/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER SouthGroup Insurance Services 795 Woodlands Parkway, Suite 101 Ridgeland, MS 39157	CONTACT NAME:	
	PHONE (A/C, No, Ext): (601) 914-3220	FAX (A/C, No): (601) 914-3188
INSURED Southern Computer Systems, Inc 226-E East Main Senatobia, MS 38668	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Berkley Specialty Insurance Company	NAIC # 31295
	INSURER B: Progressive Gulf Insurance Company	NAIC # 42412
	INSURER C: Acadia Insurance Company	NAIC # 31325
	INSURER D:	
INSURER E:		
INSURER F:		

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY			BPK0067372-32	8/29/2025	8/29/2026	EACH OCCURRENCE \$ 1,000,000
	☐ CLAIMS-MADE ☒ OCCUR		DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000				
			MED EXP (Any one person) \$ 5,000				
			PERSONAL & ADV INJURY \$ 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 2,000,000
	☒ POLICY ☐ PROJECT ☐ LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
	OTHER:						\$
B	AUTOMOBILE LIABILITY			03715702	10/11/2025	10/11/2026	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	☐ ANY AUTO		BODILY INJURY (Per person) \$				
	☐ OWNED AUTOS ONLY ☒ SCHEDULED AUTOS		BODILY INJURY (Per accident) \$				
	☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY		PROPERTY DAMAGE (Per accident) \$				
							\$
A	UMBRELLA LIAB ☒ OCCUR			CX0260762-20	8/29/2025	8/29/2026	EACH OCCURRENCE \$ 2,000,000
	☒ EXCESS LIAB ☐ CLAIMS-MADE		AGGREGATE \$				
			Aggregate \$ 2,000,000				
	DED ☐ RETENTION \$						
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WCA4595124-40	8/29/2025	8/29/2026	PER STATUTE ☐ OTH-ER ☐
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	☐ Y ☐ N					E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below		N/A				E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Inland Marine			MIM 1006283-60	8/29/2025	8/29/2026	Leased Equipment 50,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

City of Tupelo
71 E. Troy St.
Tupelo, MS 38804

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ATTACHMENT A COST INFORMATION FORM

Please submit all unit and extended costs, as well as all required supporting details and other requested information, using the format below. Vendor may add additional rows as needed to substantiate their entire offering and must include pricing for all requirements in this solicitation to make the Vendor's proposed solution fully functional. Failure to list all costs required to render the proposed solution fully functional may result in the Vendor providing those products or services at no charge or face disqualification.

Company Name: CyberTech Security Date: 06/11/2026
 Contact Name: Marcus E Holmes Phone #: 901-570-1289
 Contact E-mail: ~~mholmes~~ mholmes@ctspage.com

MFG	MFG Model Number	DESCRIPTION	QTY	UNIT COST	EXTENDED COST
		see itemized quote			
		in bid materials			

Mark-up/discount off manufacturer list-price: 10 to 15 percent avg.

If any of the items below are included in Vendor's proposal they must be detailed below.

Warranty:	5 year manufacturers & 1 year CTS workmanship
Installation: *	see itemized quote in bid materials
Maintenance:	covered under the 1 year workmanship warranty
Training:	included in the project labor quote
Software Licensing:	included in the cost of the Axis Servers
Subscriptions	NONE
System Set-Up & Configuration:	included in the cost of the labor quote

*If Vendor travel is necessary to meet the requirements of the solicitation, the Vendor should propose fully loaded costs including travel

Total Cost of Vendor's Proposed Solution: Equipment / Labor
\$273,098.04 / \$152,376.67 = \$425,474.71

ATTACHMENT B REFERENCE INFORMATION

Project References

Shelby County Schools

Supervisor's Contact: Jason Boyd

Supervisor's Title: (Security / Technology Department)

Supervisor's Email: boydjf@scsk12.org

Phone: 901-674-5542

Length of project – presently ongoing yearly projects

CyberTech has provided installation and service of IP video surveillance VMS & IP camera systems and supporting infrastructure across multiple school facilities, including camera deployment, network connectivity, and ongoing system support.

DeSoto County Schools

Supervisor's Contact: Kelly Sewell

Supervisor's Title: (Technology / Security Department)

Supervisor's Email: kelly.sewell@dcsmms.org

Phone: 901-238-0776

Length of project – presently ongoing yearly projects

CyberTech has worked with DeSoto County Schools on security camera systems and network infrastructure supporting campus-wide surveillance coverage and system upgrades.

National Civil Rights Museum

Supervisor's Contact: Henry Fields

Supervisor's Title: Chief Information/Technology Officer

Supervisor's Email: hfields@civilrightsmuseum.org

Phone: 901-527-1231

Length of project – presently ongoing yearly project

CyberTech provided installation of surveillance & access control systems with network infrastructure designed to enhance public safety monitoring across several facilities.

**ATTACHMENT C
PROPOSAL EXCEPTION SUMMARY FORM**

Solicitation	Vendor Proposal Reference	Brief Explanation of Exception	Customer Acceptance
(Reference specific outline point to which exception is taken)	(Page, section, items in Vendor's proposal where exception is explained)	(Short description of exception being made)	(Sign here only if accepted)
1.	<i>NONE</i>		
2.			
3.			
4.			
5.			
6.			
7.			

AXIS 30 W Outdoor Midspan

For outdoor use, -40 °C to 65 °C (-40 °F to 149 °F)

Power over Ethernet (PoE) offers an easy, fast and cost-effective solution for powering network products. A midspan injects power and data to the network device with built-in PoE support. No need to replace existing Ethernet switches and cabling infrastructure. AXIS 30 W Outdoor Midspan is compatible with IEEE 802.3af and 802.3at compliant Axis network devices. The midspan ensures safe and reliable operation in outdoor environments. Furthermore, it offers surge protection for both the AC and the PoE ports ensuring protection to the equipment from outdoor surges up to 6kV.

- > Outdoor-ready, IP66/67- and NEMA 4X-rated
- > IEEE 802.3af and 802.3at
- > 100 to 240 V AC
- > Railway compliant EN 50121-4 and IEC 62236-4



AXIS 30 W Outdoor Midspan

Midspans		General	
Function	Data and power are fed to a network video product through an Ethernet cable	Casing	Aluminium IP66/67- and NEMA 4X-rated
Data rate	10/100/1000 Mbps	Sustainability	PVC free
Installation and management	Automatically detects PoE and PoE+ devices and supplies inline power	Mounting	Wall or pole ^a
Data & power		Operating conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 10–100% RH (condensing)
Power	Power over Ethernet IEEE 802.3af Type 1 Class 3 IEEE 802.3at Type 2 Class 4	Storage conditions	-40 °C to 85 °C (-40 °F to 185 °F) Humidity max 95% RH (non-condensing)
Input	AC input voltage: 100 to 240 V AC AC frequency: 50–60 Hz	Approvals	Safety IEC/EN/UL 60950-1, EN 62368-1, IEC/EN/UL 60950-22, GS Mark per EN 60950-1, CCC EMC EN 55024, EN 55035, EN 55032 Class B, EN 50121-4, IEC 62236-4, EN 61000 3-2, EN 61000 3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Class B, VCCI Class B, RCM AS/NZS CISPR32 Class B, ICES-003 Class B Designed to meet GR-1089-CORE Issue 4 ITU-T K.21 enhanced surge level protection (6 kV on data and AC lines) Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC/EN 60529 IP66/67, EN 61373, IEC TR 60721-4-5 Class 5M3, NEMA 250 Type 4X
Output	54 V DC (max 30 W)	Dimensions	170 x 140 x 60 mm (6.69 x 5.51 x 2.36 in)
Power consumption	No remote device connected: 2 W 30 W remote device connected: 36 W	Weight	1.4 kg (3.1 lb)
Connectors	Shielded RJ45, EIA 568A and 568B 3-pin AC power connector (IP68-rated)	Included accessories	Installation guide
Wiring	Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet, over all four pairs for Gigabit Ethernet Power over pairs 4/5 (+) and 7/8 (-)	Optional accessories	AXIS TD9301 Outdoor Midspan Pole mount For more accessories, see axis.com
		Warranty	3-year warranty, see axis.com/warranty

a. Sold as optional accessory

Environmental responsibility:

axis.com/environmental-responsibility

AXIS Camera Station S1232 Rack Recording Server

Flexible and scalable recording server

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in two variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

- > **Scalable and powerful solution**
- > **Flexible storage options including RAID**
- > **Available in 2 variants: 16 TB and 32 TB**
- > **32 AXIS Camera Station Pro licenses included**
- > **Extensive support and 5-year warranty**



AXIS Camera Station S1232 Rack Recording Server

Variants

S1232 Rack 16 TB
S1232 Rack 32 TB

Licenses

32 AXIS Camera Station Pro Core Device NVR licenses and 10 AXIS Audio Manager Pro licenses included and tied to the hardware. Can be upgraded with additional licenses (sold separately).

System scalability

Qualified for 128 doors and a recording bitrate up to 500 Mbit/s, 64 video channels at 4 MP, 30 fps in a retail scenario.

Check AXIS Site Designer for storage estimates.

Can be scaled with more devices when using AXIS S30 Recorder Series.

Qualified for 200 simultaneous audio streams using AXIS Audio Manager Pro.

Qualified for up to 1,000 doors with access control only.

Tested with:

20 live view clients

3 clients performing heavy playback or scrubbing operations

Hardware

Processor

Intel® Xeon® E processor

Memory

2x 16 GB¹

Storage

S1232 Rack 16 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 4

Free HDD slot: 0

Out-of-the-box storage: 12 TB after RAID 5

Out-of-the-box capacity without RAID: 16 TB (4x4 TB)

S1232 Rack 32 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 4

Free HDD slot: 0

Out-of-the-box storage: 24 TB after RAID 5

Out-of-the-box capacity without RAID: 32 TB (4x8 TB)

RAID

Factory RAID level: 5

Supported RAID levels: 0, 1, 5, 6, 10

Power

2 x 600 W hot-plug redundant power supplies (included)

(100–240 V AC, 7.1–3.6 A, 50/60 Hz)

Power consumption

Typical: 127 W (433 BTU/h)

Maximum: 158 W (539 BTU/h)

Connectors

Front side:

1x USB 2.0

1x iDRAC direct port

Rear side:

1x USB 2.0

1x USB 3.2

1x VGA

1x Serial port

1x iDRAC dedicated Ethernet port

2x RJ45 1 Gbps

Video

Video streaming

Not intended for local viewing of video.

Recommended to use Axis workstations.

Approvals

Supply chain

TAA compliant

EMC

EN 55032 Class A, EN 55035, EN 61000-3-2,

EN 61000-3-3, FCC Part 2 and 15 Class A,

ISED ICES-003 Class A, RCM AS/NZS CISPR 32 Class A,

KS C 9832 Class A, KS C 9835, VCCI 32-1 Class A, BSMI

Safety

IEC/EN/UL 62368-1, EN 62311, NOM-019-SCFI-1998,

IS 13252

1. Units produced prior to September 1, 2024: 2x 8 GB

Cybersecurity

Edge security

Support for encrypted operating system drive and recording drive
FIPS 140-2 level 2 certified Trusted Platform Module (TPM 2.0)
SBOM
Secure Boot

General

Operating system

Microsoft® Windows® 11 IoT Enterprise LTSC 2024²
Built-in operating system recovery: yes
Operating system drive: 480 GB SSD³

Remote server management

iDRAC 9 basic license

Operating conditions

10 °C to 35 °C (50 °F to 95 °F)
Humidity 8–80% RH (non-condensing)

Storage conditions

Humidity 5–95% RH (non-condensing)

Dimensions

Height: 42.8 mm (1.69 in), 1U chassis
Width: 482 mm (18.98 in)
Depth without bezel: 585.3 mm (23.04 in)
Depth with bezel: 598.9 mm (23.58 in)
Product installation depth⁴: 563.3 mm (22.18 in)
Rack rails:
Type: static, square hole
Minimum rail depth⁵: 622 mm (24.49 in)
Rail adjustability range⁶: 608–879 mm (23.94 – 34.61 in)
For more information, see the Dell EMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

Weight

S1232 Rack 16TB 12.9 kg (28.44 lb)
S1232 Rack 32TB 12.7 kg (28 lb)⁷

Included accessories

Dell Ready Rails 1U Static Rails, 2x C13 to C14 power cords for rack PDU (Wall plug power cords are not included)

Optional accessories

Axis workstations
Enterprise hard drives
For more accessories, see axis.com

Services

Next Business Day Onsite Support
Keep Your Hard Drive

Warranty

5-year warranty, see axis.com/warranty

Export control

This product is subject to export control regulations, and you should always comply with all applicable national and international export or re-export control regulations.

Sustainability

Substance control

RoHS in accordance with EU RoHS Directive 2011/65/EU/, as amended by 2015/863/EU.
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu.

Materials

Recycled plastics material content: 65.0% (Post Consumer recycled)⁸
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

2. Units produced prior to July, 2025: Microsoft® Windows® 10 IoT Enterprise LTSC 2021

3. Units produced prior to September 1, 2024: 240 GB SSD

4. Measured from the outside-facing surface of the front rack post to the back of the product.

5. Measured from the outside-facing surface of the front rack post until the end of the rail.

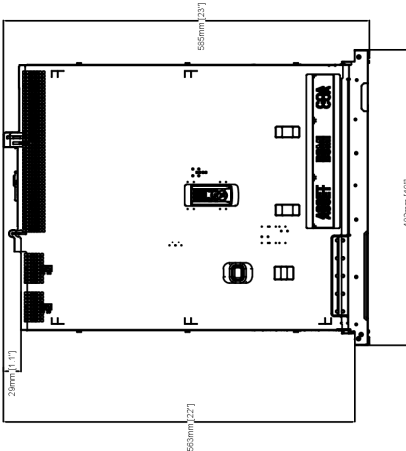
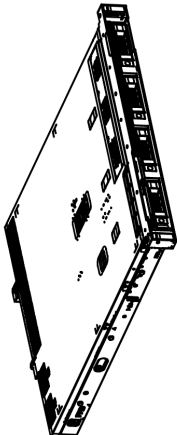
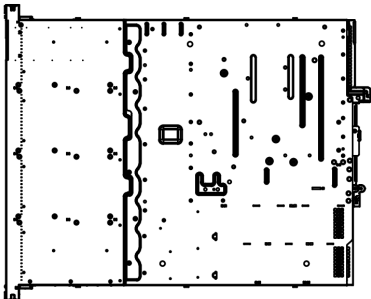
6. The allowable distance between the outside-facing surface of the front and rear rack posts.

7. Units produced prior to September 1, 2024: 12.9 kg (28.44 lb)

8. Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in EPEAT standard as applies to plastics parts

AXIS Camera Station Pro

For details about AXIS Camera Station Pro features and functions, see the AXIS Camera Station Pro datasheet on *axis.com*



Revision	v.01	Revision date	2026-03-31
Paper size	A4	Release date	2022-12-15
Created by	MF	Scale	1:10

Highlighted capabilities

SBOM (Software Bill of Materials)

SBOM is a detailed list of all software components included in an Axis product, including third-party libraries and license information. This list provides customers with insight into the product's software composition, facilitating the management of software security and meeting transparency requirements.

TPM (Trusted Platform Module)

TPM is a security chip integrated into Axis devices to provide a secure environment for storing and processing sensitive data. As a component providing a set of cryptographic features, the TPM protects information from unauthorized access. Specifically, it securely stores the private key, which never leaves the TPM, and processes all related cryptographic operations within the module itself. This ensures the secret part of the certificate remains safe even in the event of a security breach. By enabling features like encryption, authentication, and platform integrity, the TPM contributes to safeguarding the device against unauthorized access and tampering.

Secure Boot

Secure Boot is a security system that ensures only approved software (operating system and embedded switch firmware when applicable) runs on an Axis device at startup. It uses a boot process consisting of an unbroken chain of cryptographically validated software, starting in immutable memory (boot ROM), to verify the authenticity of the software. By establishing the trust chain, Secure Boot guarantees that the device only executes software with a valid digital signature, preventing malicious code from running on the device and ensuring the device boots only with a signed software.

For more information, see axis.com/glossary

AXIS Camera Station S1264 Rack Recording Server

Flexible and scalable recording server

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in three variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

- > **Scalable and powerful solution**
- > **Flexible storage options including RAID**
- > **Available in 3 variants: 24 TB, 64 TB, and 144 TB**
- > **64 AXIS Camera Station Pro licenses included**
- > **Extensive support and 5-year warranty**



AXIS Camera Station S1264 Rack Recording Server

Variants

S1264 Rack 24 TB
S1264 Rack 64 TB
S1264 Rack 144 TB

Licenses

64 AXIS Camera Station Pro Core Device NVR licenses and 10 AXIS Audio Manager Pro licenses included and tied to the hardware. Can be upgraded with additional licenses (sold separately).

System scalability

Qualified for 192 doors and a recording bitrate up to 850 Mbit/s, 96 video channels at 4 MP, 30 fps in a retail scenario. Check AXIS Site Designer for storage estimates.

Can be scaled with more devices when using AXIS S30 Recorder Series.

Qualified for 200 simultaneous audio streams using AXIS Audio Manager Pro.

Qualified for up to 1,000 doors with access control only.

Tested with:

20 live view clients

3 clients performing heavy playback or scrubbing operations

Hardware

Processor

Intel® Xeon® Silver

Memory

S1264 Rack 24 TB 2x 16 GB¹

S1264 Rack 64 TB 2x 16 GB¹

S1264 Rack 144 TB 2x 16 GB

Storage

S1264 Rack 24 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 12

Free HDD slot: 6

Out-of-the-box storage: 20 TB after RAID 5

Out-of-the-box capacity without RAID: 24 TB (6x4 TB)

S1264 Rack 64 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 12

Free HDD slot: 4

Out-of-the-box storage: 56 TB after RAID 5

Out-of-the-box capacity without RAID: 64 TB (8x8 TB)

S1264 Rack 144 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 12

Free HDD slot: 0

Out-of-the-box storage: 120 TB after RAID 6

Out-of-the-box capacity without RAID: 144 TB (12x12 TB)

RAID

S1264 Rack 24 TB

Factory RAID level: 5

Supported RAID levels: 0, 1, 5, 6, 10

S1264 Rack 64 TB

Factory RAID level: 5

Supported RAID levels: 0, 1, 5, 6, 10

S1264 Rack 144 TB

Factory RAID level: 6

Supported RAID levels: 0, 1, 5, 6, 10

Power

2 x 800 W hot-plug redundant power supplies (included)

(100–240 V AC, 9.2–4.7 A, 50/60 Hz)

Power consumption

Typical: 260 W (888 BTU/h)

Maximum: 280 W (956 BTU/h)

Connectors

Front side:

1x USB 2.0

1x VGA

1x iDRAC direct port

Rear side:

1x USB 2.0

1x USB 3.0

1x VGA

1x iDRAC dedicated Ethernet port

2x RJ45 1 Gbps

1. Units produced prior to September 1, 2024: 2x 8 GB

Video

Video streaming

Not intended for local viewing of video.
Recommended to use Axis workstations.

Approvals

Supply chain

TAA compliant

EMC

EN 55032 Class A, EN 55024, EN 55035, EN 61000-3-2, EN 61000-3-3, FCC Part 2 and 15 Class A, ISCED ICES-003 Class A, RCM AS/NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835, VCCI 32-1 Class A, BSMI

Safety

IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, EN 62311, NOM-019-SCFI-1998, IS 13252

Cybersecurity

Edge security

Support for encrypted operating system drive and recording drive
FIPS 140-2 level 2 certified Trusted Platform Module (TPM 2.0)
SBOM
Secure Boot
Secure Component Verification (SCV)²

General

Operating system

Microsoft® Windows® 11 IoT Enterprise LTSC 2024³
Built-in operating system recovery: yes
Operating system drive: 480 GB SSD⁴

Remote server management

iDRAC 9 express license

Operating conditions

10 °C to 35 °C (50 °F to 95 °F)
Humidity 20–80% RH (non-condensing)

Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)

Dimensions

Height: 86.8 mm (3.42 in), 2U chassis
Width: 482 mm (18.98 in)
Depth without bezel: 707.78 mm (27.87 in)
Depth with bezel: 721.62 mm (28.41 in)
Product installation depth⁵: 685.78 mm (27.00 in)
Rack rails:
Type: sliding, square hole
Minimum rail depth⁶: 714 mm (28.11 in)
Rail adjustability range⁷: 631–868 mm (24.84 – 34.17 in)
For more information, see the Dell EMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

Weight

S1264 Rack 24 TB21.9 kg (48.28 lb)⁸
S1264 Rack 64 TB22.9 kg (50.49 lb)
S1264 Rack 144 TB27.1 kg (59.75 lb)⁹

Included accessories

Dell Ready Rails 2U Sliding Rails, 2x C13 to C14 power cords for rack PDU (Wall plug power cords are not included)

Optional accessories

Axis workstations
Enterprise hard drives
For more accessories, see axis.com

Services

Next Business Day Onsite Support
Keep Your Hard Drive

Warranty

5-year warranty, see axis.com/warranty

Export control

This product is subject to export control regulations, and you should always comply with all applicable national and international export or re-export control regulations.

Part numbers

axis.com/products/axis-s1264-rack#part-numbers

2. Only valid for units produced from September 1, 2024

3. Units produced prior to June 2025 (S1264 24 TB) / May 2025 (S1264 64 TB) / October 2025 (S1264 144 TB): Microsoft® Windows® 10 IoT Enterprise LTSC 2021

4. Units produced prior to September 1, 2024: 240 GB SSD

5. Measured from the outside-facing surface of the front rack post to the back of the product.

6. Measured from the outside-facing surface of the front rack post until the end of the rail.

7. The allowable distance between the outside-facing surface of the front and rear rack posts.

8. Units produced prior to September 1, 2024: 20.8 kg (45.86 lb)

9. Units produced prior to September 1, 2024: 25.6 kg (56.44 lb)

Sustainability

Substance control

RoHS in accordance with EU RoHS Directive 2011/65/EU, as amended by 2015/863/EU.
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu.

Materials

Recycled plastics material content: 25.35% (Post Consumer recycled)¹⁰
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

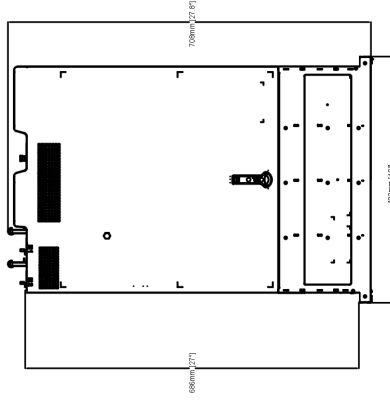
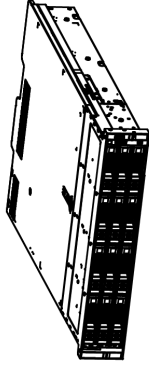
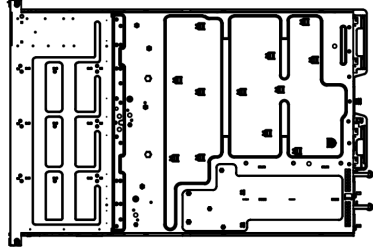
Environmental responsibility

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

¹⁰. Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in EPEAT standard as applies to plastics parts

AXIS Camera Station Pro

For details about AXIS Camera Station Pro features and functions, see the AXIS Camera Station Pro datasheet on *axis.com*



AXIS[®] COMMUNICATIONS

AXIS S1264 Rack

www.axis.com

Revision	v.01	Revision date	2026-03-31
Paper size	A4	Release date	2022-12-15
Created by	MF	Scale	1:12

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Highlighted capabilities

SBOM (Software Bill of Materials)

SBOM is a detailed list of all software components included in an Axis product, including third-party libraries and license information. This list provides customers with insight into the product's software composition, facilitating the management of software security and meeting transparency requirements.

TPM (Trusted Platform Module)

TPM is a security chip integrated into Axis devices to provide a secure environment for storing and processing sensitive data. As a component providing a set of cryptographic features, the TPM protects information from unauthorized access. Specifically, it securely stores the private key, which never leaves the TPM, and processes all related cryptographic operations within the module itself. This ensures the secret part of the certificate remains safe even in the event of a security breach. By enabling features like encryption, authentication, and platform integrity, the TPM contributes to safeguarding the device against unauthorized access and tampering.

Secure Boot

Secure Boot is a security system that ensures only approved software (operating system and embedded switch firmware when applicable) runs on an Axis device at startup. It uses a boot process consisting of an unbroken chain of cryptographically validated software, starting in immutable memory (boot ROM), to verify the authenticity of the software. By establishing the trust chain, Secure Boot guarantees that the device only executes software with a valid digital signature, preventing malicious code from running on the device and ensuring the device boots only with a signed software.

For more information, see axis.com/glossary

AXIS Camera Station S1296 Rack Recording Server

Flexible and scalable recording server

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in two variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

- > **Scalable and powerful solution**
- > **Flexible storage options including RAID**
- > **Available in 2 variants: 96 TB and 192 TB**
- > **96 AXIS Camera Station Pro licenses included**
- > **Extensive support and 5-year warranty**



AXIS Camera Station S1296 Rack Recording Server

Variants

S1296 Rack 96 TB
S1296 Rack 192 TB

Licenses

96 AXIS Camera Station Pro Core Device NVR licenses and 10 AXIS Audio Manager Pro licenses included and tied to the hardware. Can be upgraded with additional licenses (sold separately).

System scalability

Qualified for 192 doors and a recording bitrate up to 1.5 Gbit/s, 150 video channels at 4 MP, 30 fps in a retail scenario.
Check AXIS Site Designer for storage estimates.
Can be scaled with more devices when using AXIS S30 Recorder Series.
Qualified for 200 simultaneous audio streams using AXIS Audio Manager Pro.
Qualified for up to 1,000 doors with access control only.
Tested with:
20 live view clients
4 clients performing heavy playback or scrubbing operations

Hardware

Processor

Intel® Xeon® Silver

Memory

2x 16 GB

Storage

S1296 Rack 96 TB
Hot swappable Enterprise Class HDD
Total HDD slot: 12
Free HDD slot: 0
Out-of-the-box storage: 80 TB after RAID 6
Out-of-the-box capacity without RAID: 96 TB (12x8 TB)
S1296 Rack 192 TB
Hot swappable Enterprise Class HDD
Total HDD slot: 12
Free HDD slot: 0
Out-of-the-box storage: 160 TB after RAID 6
Out-of-the-box capacity without RAID: 192 TB (12x16 TB)

Operating system drive

2x 480 GB SSD configured with RAID 1 for redundancy¹

RAID

Factory RAID level: 6
Supported RAID levels: 0, 1, 5, 6, 10

Power

2 x 800 W hot-plug redundant power supplies (included)
(100–240 V AC, 12–6.3 A, 50/60 Hz)

Power consumption

Typical: 260 W (888 BTU/h)
Maximum: 280 W (956 BTU/h)

Connectors

Front side:

1x USB 2.0
1x VGA
1x iDRAC direct port

Rear side:

1x USB 2.0
1x USB 3.0
1x VGA
1x iDRAC dedicated Ethernet port
2x RJ45 1 Gbps (Do not use)
2x RJ45 10 Gbps

Video

Video streaming

Not intended for local viewing of video.
Recommended to use Axis workstations.

Approvals

Supply chain

TAA compliant

EMC

EN 55032 Class A, EN 55024, EN 55035, EN 61000-3-2, EN 61000-3-3, FCC Part 2 and 15 Class A, ISD ICES-003 Class A, RCM AS/NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835, VCCI 32-1 Class A, BSMI

Safety

IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, EN 62311, NOM-019-SCFI-1998, IS 13252

1. Units produced prior to September 1, 2024: 1x 240 GB SSD. Units produced prior to May 1, 2025: 1x 480 GB SSD.

Cybersecurity

Edge security

Support for encrypted operating system drive and recording drive
FIPS 140-2 level 2 certified Trusted Platform Module (TPM 2.0)
SBOM
Secure Boot
Secure Component Verification (SCV)²

General

Operating system

Microsoft® Windows® 11 IoT Enterprise LTSC 2024³
Built-in operating system recovery: yes

Remote server management

iDRAC 9 express license

Operating conditions

10 °C to 35 °C (50 °F to 95 °F)
Humidity 20–80% RH (non-condensing)

Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)

Dimensions

Height: 86.8 mm (3.42 in), 2U chassis
Width: 482 mm (18.98 in)
Depth without bezel: 707.78 mm (27.87 in)
Depth with bezel: 721.62 mm (28.41 in)
Product installation depth⁴: 685.78 mm (27.00 in)
Rack rails:
Type: sliding, square hole
Minimum rail depth⁵: 714 mm (28.11 in)
Rail adjustability range⁶: 631–868 mm (24.84 – 34.17 in)
For more information, see the Dell EMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

Weight

S1296 Rack 96 TB 26.1kg (57.54 lb)⁷
S1296 Rack 192 TB 26.3 kg (57.98 lb)⁸

Included accessories

Dell Ready Rails 2U Sliding Rails, 2x C13 to C14 power cords for rack PDU (Wall plug power cords are not included)

Optional accessories

Axis workstations
Enterprise hard drives
For more accessories, see axis.com

Services

Next Business Day Onsite Support
Keep Your Hard Drive

Warranty

5-year warranty, see axis.com/warranty

Sustainability

Substance control

RoHS in accordance with EU RoHS Directive 2011/65/EU/, as amended by 2015/863/EU.
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu.

Materials

Recycled plastics material content: 25.35% (Post Consumer recycled)⁹
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

2. Only valid for units produced from September 1, 2024

3. Units produced prior to May 2025: Microsoft® Windows® 10 IoT Enterprise LTSC 2021

4. Measured from the outside-facing surface of the front rack post to the back of the product.

5. Measured from the outside-facing surface of the front rack post until the end of the rail.

6. The allowable distance between the outside-facing surface of the front and rear rack posts.

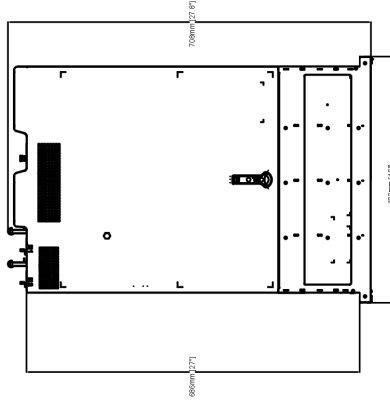
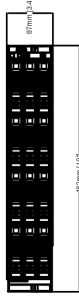
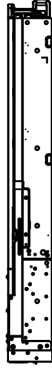
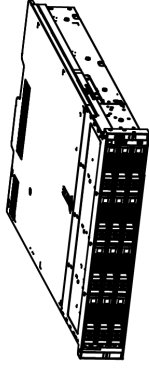
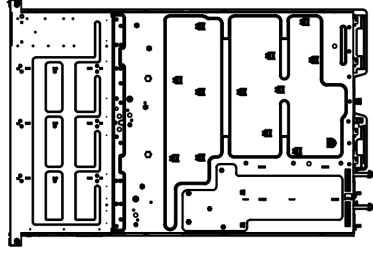
7. Units produced prior to September 1, 2024: 26.1kg (57.54 lb)

8. Units produced prior to September 1, 2024: 25.6 kg (56.44 lb)

9. Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in EPEAT standard as applies to plastics parts

AXIS Camera Station Pro

For details about AXIS Camera Station Pro features and functions, see the AXIS Camera Station Pro datasheet on *axis.com*



AXIS[®] COMMUNICATIONS

AXIS S1296 Rack

www.axis.com

Revision	v.01	Revision date	2026-03-31
Paper size	A4	Release date	2022-12-15
Created by	MF	Scale	1:12

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Highlighted capabilities

SBOM (Software Bill of Materials)

SBOM is a detailed list of all software components included in an Axis product, including third-party libraries and license information. This list provides customers with insight into the product's software composition, facilitating the management of software security and meeting transparency requirements.

TPM (Trusted Platform Module)

TPM is a security chip integrated into Axis devices to provide a secure environment for storing and processing sensitive data. As a component providing a set of cryptographic features, the TPM protects information from unauthorized access. Specifically, it securely stores the private key, which never leaves the TPM, and processes all related cryptographic operations within the module itself. This ensures the secret part of the certificate remains safe even in the event of a security breach. By enabling features like encryption, authentication, and platform integrity, the TPM contributes to safeguarding the device against unauthorized access and tampering.

Secure Boot

Secure Boot is a security system that ensures only approved software (operating system and embedded switch firmware when applicable) runs on an Axis device at startup. It uses a boot process consisting of an unbroken chain of cryptographically validated software, starting in immutable memory (boot ROM), to verify the authenticity of the software. By establishing the trust chain, Secure Boot guarantees that the device only executes software with a valid digital signature, preventing malicious code from running on the device and ensuring the device boots only with a signed software.

For more information, see axis.com/glossary

AXIS M3077-PLVE Network Camera

6 MP outdoor-ready with 360° panoramic view and audio capture

With its 6 MP sensor, AXIS M3077-PLVE offers excellent image quality and a complete 180° or 360° overview, indoors or out, around the clock. It features two built-in microphones allowing for audio surveillance and detection. This compact mini dome offers dewarped views such as panorama, quad, corner, and corridor views directly from the camera. It includes Axis Lightfinder and Axis Forensic WDR for true colors and great details in challenging light or near darkness. And, Axis OptimizedIR for surveillance in pitch darkness.

- > Complete 180° and 360° overview
- > Lightfinder, Forensic WDR and Optimized IR
- > Digital PTZ and dewarped views
- > Built-in microphones
- > Enhanced security features



AXIS M3077-PLVE Network Camera

NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

Camera	
Image sensor	1/1.8" progressive scan RGB CMOS
Lens	1.56 mm, F2.0 Horizontal field of view: 183° Vertical field of view: 183° Fixed iris, fixed focus, IR corrected
Day and night	Automatically removable infrared-cut filter
Minimum illumination	Color: 0.16 lux at 50 IRE, F2.0 B/W: 0.03 lux at 50 IRE, F2.0 0 lux with IR illumination on
Shutter speed	1/16000 s to 1 s
Camera adjustment	Digital roll: ± 180°
System on chip (SoC)	
Model	ARTPEC-7
Memory	1024 MB RAM, 512 MB Flash
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	Overview: 2016x2016 to 160x160 Panorama: 2560x1440 to 192x72 Double Panorama: 2560x1920 to 384x288 Quad view: 2560x1920 to 384x288 View area 1-4: 1920x1440 to 256x144 Corner right/left: 2368x1184 to 384x288 Double corner: 2016x2016 to 384x288 Corridor: 2560x1920 to 256x144
Frame rate	360° overview only, up to 2016x2016 without WDR: 50/60 fps @ 50/60 Hz 360° overview and dewarped views up to max resolution with WDR: up to 25/30 fps @ 50/60 Hz
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
Multi-view streaming	360° overview, dewarped panorama, corridor, corner left/right and quad views. Up to 4 individually cropped out and dewarped view areas. All different views can be streamed simultaneously. When streaming 4 dewarped view areas and one 360° overview in max resolution: up to 19 fps per stream.
Image settings	Compression, color saturation, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, tone mapping, exposure control (including automatic gain control), exposure zones, Forensic WDR: up to 120 dB depending on scene, fine tuning of low-light behavior, dynamic text and image overlay, mirroring, digital roll, polygon privacy masks
Pan/Tilt/Zoom	Digital PTZ of view areas, digital PT of panorama, corner, corridor and quad views, preset positions, guard tours
Audio	
Audio streaming	One-way, simplex, mono or stereo.
Audio encoding	LPCM 48 kHz, 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	Built-in microphone (can be disabled) Two-way audio connectivity via AXIS T61 Audio and I/O Interfaces with portcast technology (no support for AXIS T61 Mk II)
Network	
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^a , HTTP/2, TLS ^b , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP ^c , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf) IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^c , HTTP/2, TLS ^d , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP ^c , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS,

System integration	
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com AXIS Guardian with One-Click Connection ONVIF [®] Profile G, ONVIF [®] Profile M, ONVIF [®] Profile S, ONVIF [®] Profile T specification at onvif.org Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX
Onscreen controls	Day/night shift Wide dynamic range Video streaming indicator IR illumination
Event conditions	Analytics, edge storage events, virtual inputs through API, supervised external inputs, open casing, audio detection MQTT subscribe
Event actions	Record video/audio: SD card and network share MQTT publish Upload of images or video/audio clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap PTZ: PTZ preset, start/stop guard tour Overlay text, external output activation, play audio clip, zoom preset, day/night mode
Built-in installation aids	Pixel counter, digital roll, repositioning of quad views, digital PTZ of view areas, digital PT of panorama, corner, corridor and quad views
Analytics	
Applications	Included AXIS Video Motion Detection, AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, active tampering alarm, audio detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
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, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), secure keystore, secure boot
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^e , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^f , TLS v1.2/v1.3 ^g , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> 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-, NEMA 4X- and IK10-rated Polycarbonate hard coated dome Aluminum Color: white NCS S 1002-B For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner.
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 8.0 W, max 11.9 W
Connectors	Shielded RJ45 10BASE-T/100BASE-TX PoE

	Terminal block for 1 supervised alarm input and 1 output (12 V DC output, max. load 25 mA)
IR illumination	Optimized IR with power-efficient, long-life 850 nm IR LEDs Range of reach 20 m (66 ft) or more depending on 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 50 °C (-40 °F to 122 °F) Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °F) Maximum temperature (intermittent): 55 °C (131 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Approvals	EMC EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN35 Safety IEC/EN/UL 60950-22, IEC/EN/UL 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, 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK10, IEC 60721-3-5 Class 5M3 (vibration and shock), NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network NIST SP500-267
Cybersecurity	ETSI EN 303 645
Dimensions	Height: 66 mm (2.5 in) ø 149 mm (5.8 in)
Weight	700 g (1.5 lb)

Included accessories	Installation guide, Windows® decoder 1-user license, drill hole template, cable gaskets, connector guard, I/O connector, RESISTORX® TR20 bit, mounting bracket, cable hole lid, view protector
Optional accessories	AXIS T94T02D Pendant kit with weathershield AXIS Surveillance Cards AXIS TM3808-E Skin Cover Black AXIS Mounts & Cabinets AXIS T6101 Audio and I/O Interface AXIS T6112 Audio and I/O Interface For more accessories, see axis.com
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 .
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, 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

- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).
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AXIS M3088-V Dome Camera

Fixed 8 MP mini dome with deep learning

This cost-efficient mini dome features Wide Dynamic Range (WDR) to ensure clarity even when there's both dark and light areas in the scene. A deep learning processing unit enables intelligent analytics based on deep learning on the edge. Plus, AXIS Object Analytics including time in area feature lets you track whenever an object stays in a defined area longer than a user-defined time, for example, to detect loitering. This compact, easy-to-install, vandal-resistant camera comes factory focused so there's no manual focusing required. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > Great image quality in 8 MP
- > Compact, discreet design
- > WDR for challenging light
- > Support for analytics with deep learning
- > Built-in cybersecurity features



AXIS M3088-V Dome Camera

Camera

Image sensor

1/2.8" progressive scan RGB CMOS

Lens

2.9 mm, F2.0
Horizontal field of view: 109°
Vertical field of view: 56°
Fixed iris, IR corrected

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.25 lux at 50 IRE F2.0
B/W: 0.05 lux at 50 IRE F2.0

Shutter speed

1/71500 s to 1/5 s

Camera adjustment

Pan $\pm 175^\circ$, tilt $\pm 80^\circ$, rotation $\pm 175^\circ$
Can be directed in any direction and see the wall/ceiling

System on chip (SoC)

Model

CV25

Memory

2048 MB RAM, 512 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution

16:9: 3840x2160 (8 MP) to 640x360
4:3: 2592x1944 to 320x240

Frame rate

12/15 fps with power line frequency 50/60 Hz in H.264 and H.265¹

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

WDR

WDR: Up to 120 dB depending on scene

Multi-view streaming

Up to 2 individually cropped out view areas in full frame rate

Image settings

Saturation, contrast, brightness, sharpness, white balance, day/night threshold, exposure mode, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic text and image overlay, privacy masks

Image processing

Axis Zipstream, WDR

Pan/Tilt/Zoom

Digital PTZ

Audio

Features

Automatic gain control
10-band graphic equalizer for audio input
Voice enhancer through portcast technology
Speaker pairing

Streaming

Two-way (full duplex)

Input

Input through portcast technology

Output

Output through speaker pairing or portcast technology

1. Reduced frame rate in Motion JPEG

Encoding

AAC-LC 8/16/32/44.1/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz
Configurable bitrate

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, DHCPv4/v6, 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

Privacy masks
Media clip

Edge-to-edge

Speaker pairing

Event conditions

Application

Audio: audio detection

Device status: above/below/within operating temperature, IP address blocked, IP address removed, new IP address, network lost, system ready, live stream active

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: manual trigger, virtual input, digital input via accessories using portcast technology

MQTT: subscribe

Scheduled and recurring: schedule

Video: average bitrate degradation, tampering

Event actions

Day-night mode

LEDs: flash status LED, flash status LED while the rule is active

MQTT: publish

Notification: HTTP, HTTPS, TCP and email

Overlay text

Recordings

SNMP traps

Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email

WDR mode

External output activation via accessories using portcast technology

Built-in installation aids

Pixel counter, level grid

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield³, AXIS Video Motion Detection, active tampering alarm, audio detection

Supported

AXIS People Counter

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

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).

3. Available for download

AXIS Object Analytics

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

Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area, motion in area, motion line crossing

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes, 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: vehicle color, upper/lower clothing color, confidence, position

Audio data: audio level

Approvals

Product markings

CE, FCC, ICES, RCM, VCCI, BIS

Supply chain

TAA compliant

EMC

EN 55032 Class A, EN 55035, 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

Safety

IEC/EN/UL 62368-1, 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 IP42, IEC/EN 62262 IK08

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication, password protection

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)⁴, IEEE 802.1AR, HTTPS/HSTS⁴, TLS v1.2/v1.3⁴, 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

IP42 water- and dust-resistant (to comply with IP42, follow Installation Guide), IK08 impact-resistant, polycarbonate/ABS casing
Encapsulated electronics
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 (PoE) IEEE 802.3af/802.3at Type 1 Class 2
Typical 3.6 W, max 4.2 W

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX PoE
Audio: Audio and I/O connectivity via portcast technology

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 (ey@cryptsoft.com).

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: 0 °C to 40 °C (32 °F to 104 °F)
Humidity: 10–85% RH (non-condensing)

Storage conditions

Temperature: -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.

Weight

150 g (0.33 lb)

Box content

Camera, installation guide

Optional accessories

AXIS TM3812 Tamper Cover
AXIS T61 Audio and I/O Interface Series
Black casing
Smoked dome
AXIS Surveillance microSDXC™ Card
For more accessories, go to axis.com/products/axis-m3088-v#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-m3088-v#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: 57% (recycled)
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

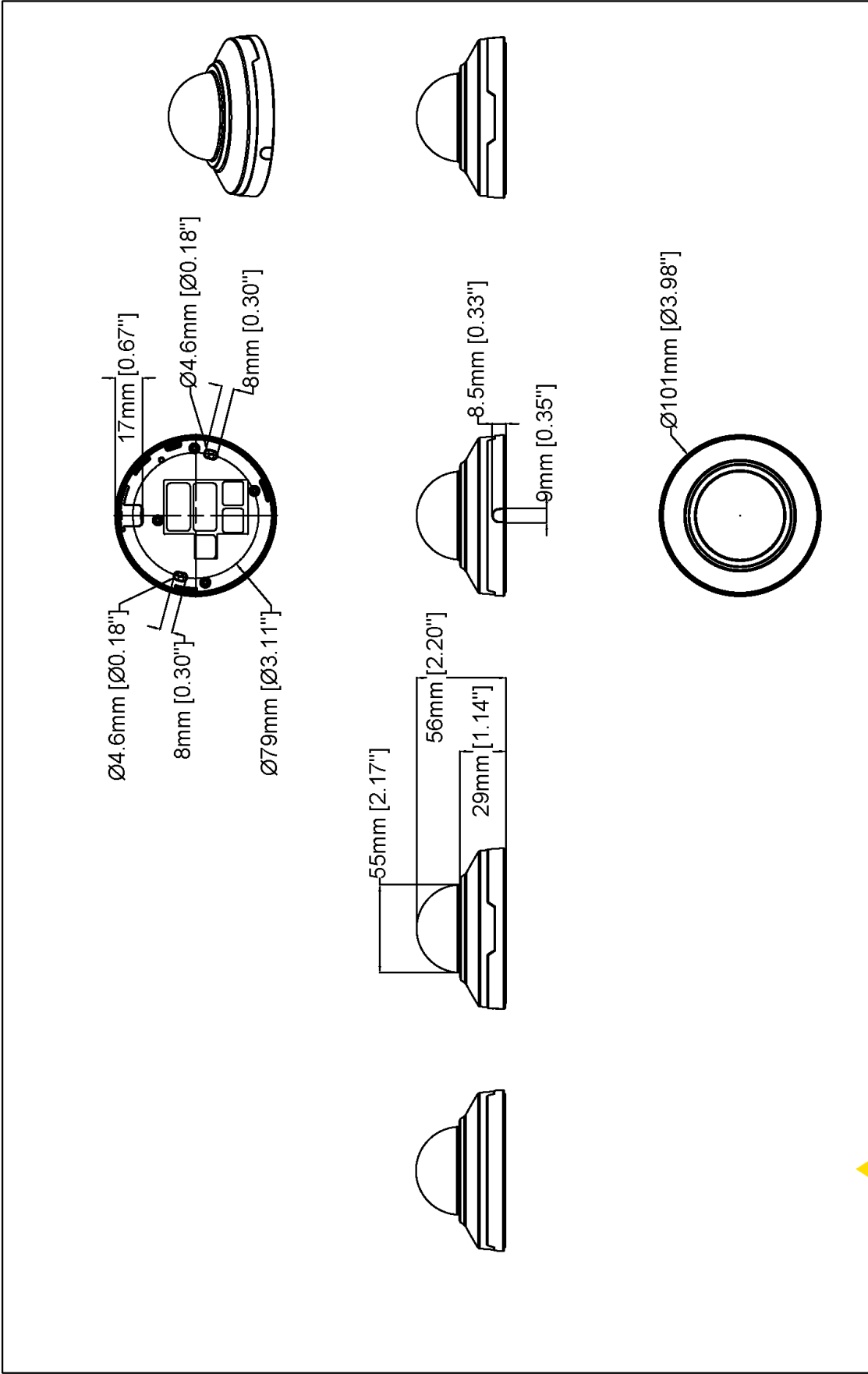
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance
Detect	25 px/m (8 px/ft)	82.9 m (271.9 ft)
Observe	63 px/m (19 px/ft)	32.9 m (107.9 ft)
Recognize	125 px/m (38 px/ft)	16.6 m (54.4 ft)
Identify	250 px/m (76 px/ft)	8.3 m (27.2 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



Revision	v.01	Revision date	2021-12-17
Paper size	A4	Release date	2021-12-17
Created by	MF	Scale	1:3

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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

AXIS M3125-LVE Dome Camera

AI-powered 2 MP turret style camera

This AI-powered camera offers flexible installation both indoors and outdoors. With a turret-style design, it suppresses light reflections and delivers great 2 MP image quality and usability. And OptimizedIR allows for surveillance in complete darkness. It comes preinstalled with AXIS Object Analytics to detect, classify, track and count objects like humans and vehicles. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operations. This weatherproof camera is IP66-rated and has an operating temperature range from -30 °C to 50 °C (-22 °F to 122 °F).

- > **Great image quality in 2 MP**
- > **WDR, Lightfinder, and OptimizedIR**
- > **Available in black or white**
- > **AI-based video analytics**
- > **Built-in cybersecurity with Axis Edge Vault**



AXIS M3125-LVE Dome Camera

Variants

Black
White

Camera

Image sensor

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

Lens

2.9 mm, F2.0
Horizontal field of view: 110°
Vertical field of view: 60°
Minimum focus distance: 0.5 m (1.6 ft)
M12 mount, fixed iris
Fixed iris, Fixed focus, IR corrected

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.15 lux at 50 IRE, F1.2
B/W: 0.03 lux at 50 IRE, F1.2
0 lux with IR illumination on

Shutter speed

1/25000 s to 2 s

Camera adjustment

Pan $\pm 180^\circ$, tilt 0 to 60° , rotation $\pm 95^\circ$

System on chip (SoC)

Model

CV25

Memory

1024 MB RAM, 512 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution

1920x1080 to 160x90

Frame rate

Up to 50/60 fps (50/60 Hz) with H.264 and H.265¹ 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

Signal-to-noise ratio

>55 dB

WDR

Up to 110 dB depending on scene

Multi-view streaming

2 individually cropped out view areas

Image settings

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

WDR, Lightfinder, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ

Audio

Audio features

Voice enhancer through portcast technology
Speaker pairing

Audio streaming

Two-way (full duplex)

Audio input

Input through portcast technology

1. Reduced frame rate in Motion JPEG

Audio output

Output through speaker pairing or portcast technology

Audio encoding

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

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, 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

Day/night shift
Wide dynamic range
IR illumination
Privacy masks
Media clip
Heater

Edge-to-edge

Speaker pairing

Event conditions

Device status: above/below/within operating temperature, IP address blocked, IP address removed, live stream active, network lost, new IP address, system ready

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: manual trigger, virtual input is active

MQTT: stateless

Scheduled and recurring: schedule

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

Event actions

Day-night mode: use day-night mode while the rule is active

Illumination: use lights, use lights while the rule is active

LEDs: flash status LED, flash status LED while the rule is active

MQTT: send MQTT publish message

Notification: HTTP, HTTPS, TCP and email

Overlay text: use, use while the rule is active

Recordings: record video, record video while the rule is active

Security: erase configuration

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: set, set while the rule is active

Built-in installation aids

Pixel counter, level grid

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield³, AXIS Video Motion Detection, active tampering alarm

Supported

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

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 (eyay@cryptsoft.com).

3. Available for download

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, motion in area, motion line crossing

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes

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

Approvals

Product markings

CSA, UL/cUL, BIS, CE, KC, EAC, VCCI, RCM, BSMI

Supply chain

TAA compliant

EMC

EN 55024, EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES(A)/NMB(A)

Japan: VCCI Class A

Korea: KC KN35, KC KN32 Class A, KS C 9835, KS C 9832 Class A

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt, UL 60950-22, 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, IEC/EN 62262 IK08, NEMA 250 Type 4X

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

Cybersecurity

Edge security

Software: Signed firmware, 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

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+, FIPS 140-3 Level 3), 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)⁴, IEEE 802.1AE (MACsec PSK/EAP-TLS),

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-, NEMA 4X- and IK08-rated

Polycarbonate hard-coated window

Plastic casing

Color: white NCS S 1002-B, black NCS S 9000-N

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 (PoE) IEEE 802.3af/802.3at Type 1 Class 3

Typical 3.7 W, max 10.5 W

Features: power meter

Connectors

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

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs

Range of reach 20 m (65 ft) or more depending on the scene

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 (ey@cryptsoft.com).

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

Storage conditions

Temperature: -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): 0.008 m² (0.03 ft²)

Weight

390 g (0.9 lb)

Box content

Camera, installation guide, connector guard, cable gaskets, owner authentication key

Optional accessories

AXIS TM3212 Recessed Mount, AXIS TM3213 Recessed Mount, AXIS TM3824-E Weathershield, AXIS T94B01P Conduit Back Box, AXIS T94B02D Pendant Kit
AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
For more accessories, go to axis.com/products/axis-m3125-lve#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-m3125-lve#part-numbers

Sustainability

Substance control

PVC free
RoHS in accordance with EU RoHS Directive 2011/65/EU/ and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

Renewable carbon-based plastic content: 49% (recycled: 6%, bio-based: 43%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

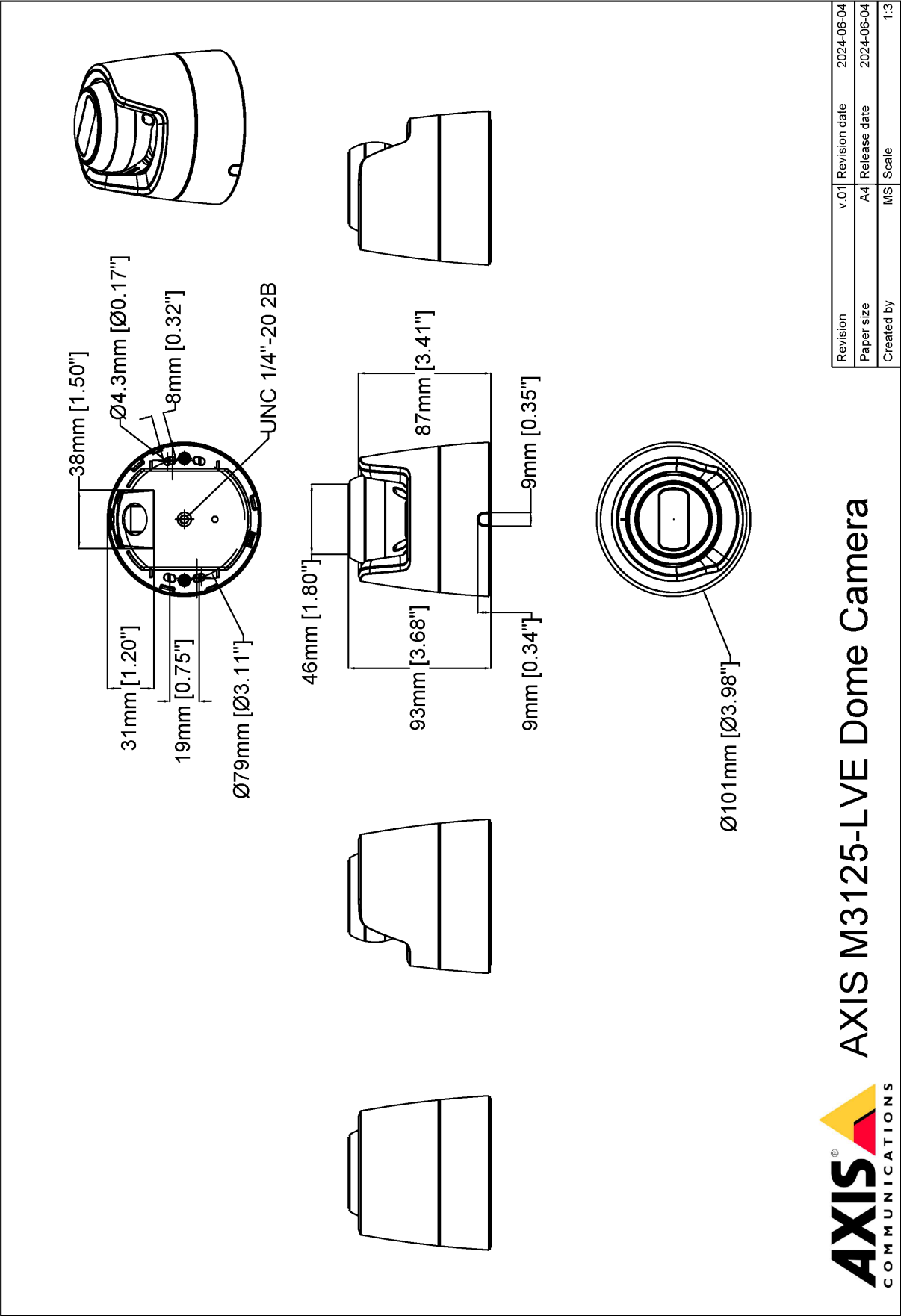
Environmental responsibility

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
Detect	25 px/m (8 px/ft)	40 m (131 ft)
Observe	63 px/m (19 px/ft)	15.9 m (52.2 ft)
Recognize	125 px/m (38 px/ft)	8 m (26 ft)
Identify	250 px/m (76 px/ft)	4 m (13 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.



Revision	v.01	Revision date	2024-06-04
Paper size	A4	Release date	2024-06-04
Created by	MS	Scale	1:3

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.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

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.

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.

AXIS M3126-LVE Dome Camera

AI-powered 4 MP turret style camera

This AI-powered camera offers flexible installation both indoors and outdoors. With a turret-style design, it suppresses light reflections and delivers great 4 MP image quality and usability. And OptimizedIR allows for surveillance in complete darkness. It comes preinstalled with AXIS Object Analytics to detect, classify, track and count objects like humans and vehicles. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage and operations. This weatherproof camera is IP66-rated and has an operating temperature range from -30 °C to 50 °C (-22 °F to 122 °F).

- > **Great image quality in 4 MP**
- > **WDR, Lightfinder, and OptimizedIR**
- > **Available in black or white**
- > **AI-based video analytics**
- > **Built-in cybersecurity with Axis Edge Vault**



AXIS M3126-LVE Dome Camera

Variants

Black
White

Camera

Image sensor

1/2.7" progressive scan RGB CMOS
Pixel size 2 µm

Lens

2.4 mm, F2.1
Horizontal field of view: 130°
Vertical field of view: 73°
Minimum focus distance: 0.5 m (1.6 ft)
M12 mount, fixed iris
Fixed iris, Fixed focus, IR corrected

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.19 lux at 50 IRE, F1.2
B/W: 0.04 lux at 50 IRE, F1.2
0 lux with IR illumination on

Shutter speed

1/38500 s to 2 s

Camera adjustment

Pan $\pm 180^\circ$, tilt 0 to 60° , rotation $\pm 95^\circ$

System on chip (SoC)

Model

CV25

Memory

1024 MB RAM, 512 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles
H.265 (MPEG-H Part 2/HEVC) Main Profile
Motion JPEG

Resolution

2688x1512 to 160x90

Frame rate

Up to 25/30 fps (25/30 Hz) with H.264 and H.265¹ 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

Signal-to-noise ratio

>55 dB

WDR

Up to 120 dB depending on scene

Multi-view streaming

2 individually cropped out view areas

Image settings

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

WDR, Lightfinder, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ

Audio

Audio features

Voice enhancer through portcast technology
Speaker pairing

Audio streaming

Two-way (full duplex)

Audio input

Input through portcast technology

1. Reduced frame rate in Motion JPEG

Audio output

Output through speaker pairing or portcast technology

Audio encoding

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

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, 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

Day/night shift
Wide dynamic range
IR illumination
Privacy masks
Media clip
Heater

Edge-to-edge

Speaker pairing

Event conditions

Device status: above/below/within operating temperature, IP address blocked, IP address removed, live stream active, network lost, new IP address, system ready

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: manual trigger, virtual input is active

MQTT: stateless

Scheduled and recurring: schedule

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

Event actions

Day-night mode: use day-night mode while the rule is active

Illumination: use lights, use lights while the rule is active

LEDs: flash status LED, flash status LED while the rule is active

MQTT: send MQTT publish message

Notification: HTTP, HTTPS, TCP and email

Overlay text: use, use while the rule is active

Recordings: record video, record video while the rule is active

Security: erase configuration

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: set, set while the rule is active

Built-in installation aids

Pixel counter, level grid

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Live Privacy Shield³, AXIS Video Motion Detection, active tampering alarm

Supported

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

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).

3. Available for download

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, motion in area, motion line crossing

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes

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

Approvals

Product markings

CSA, UL/cUL, BIS, CE, KC, EAC, VCCI, RCM, BSMI

Supply chain

TAA compliant

EMC

EN 55024, EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES(A)/NMB(A)

Japan: VCCI Class A

Korea: KC KN35, KC KN32 Class A, KS C 9835, KS C 9832 Class A

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt, UL 60950-22, 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, IEC/EN 62262 IK08, NEMA 250 Type 4X

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

Cybersecurity

Edge security

Software: Signed firmware, 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

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+, FIPS 140-3 Level 3), 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)⁴, IEEE 802.1AE (MACsec PSK/EAP-TLS),

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-, NEMA 4X- and IK08-rated

Polycarbonate hard-coated window

Plastic casing

Color: white NCS S 1002-B, black NCS S 9000-N

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 (PoE) IEEE 802.3af/802.3at Type 1 Class 3

Typical 4.0 W, max 10.5 W

Features: power meter

Connectors

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

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs

Range of reach 20 m (65 ft) or more depending on the scene

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 (ey@cryptsoft.com).

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

Storage conditions

Temperature: -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): 0.008 m² (0.03 ft²)

Weight

390 g (0.9 lb)

Box content

Camera, installation guide, connector guard, cable gaskets, owner authentication key

Optional accessories

AXIS TM3212 Recessed Mount, AXIS TM3213 Recessed Mount, AXIS TM3824-E Weathershield, AXIS T94B01P Conduit Back Box, AXIS T94B02D Pendant Kit
AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
For more accessories, go to axis.com/products/axis-m3126-lve#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-m3126-lve#part-numbers

Sustainability

Substance control

PVC free
RoHS in accordance with EU RoHS Directive 2011/65/EU/ and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

Renewable carbon-based plastic content: 49%
(recycled: 6%, bio-based: 43%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

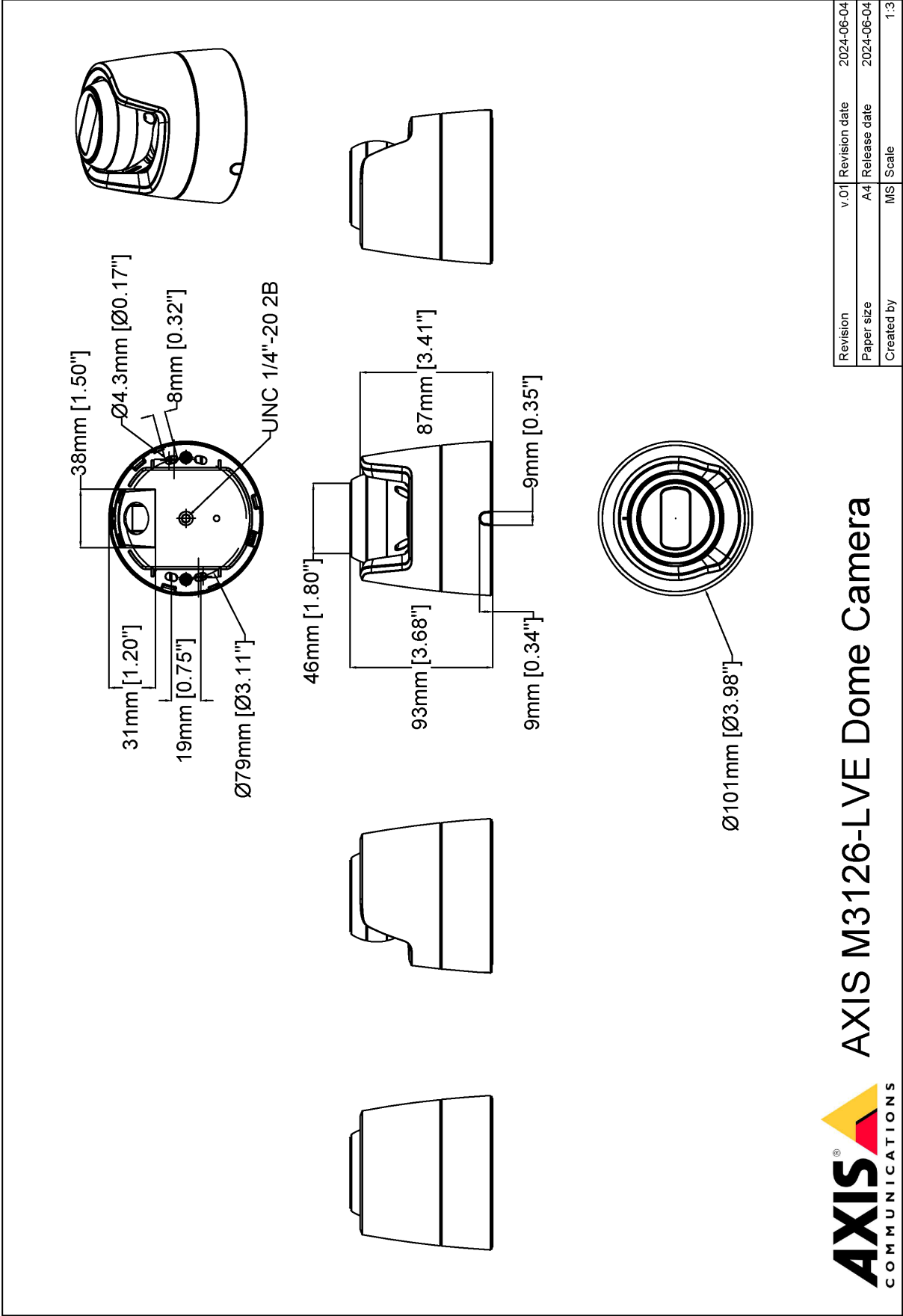
Environmental responsibility

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
Detect	25 px/m (8 px/ft)	47.4 m (155.5 ft)
Observe	63 px/m (19 px/ft)	18.8 m (61.7 ft)
Recognize	125 px/m (38 px/ft)	9.5 m (31.2 ft)
Identify	250 px/m (76 px/ft)	4.7 m (15.4 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.



Revision	v.01	Revision date	2024-06-04
Paper size	A4	Release date	2024-06-04
Created by	MS	Scale	1:3

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.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

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.

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.

AXIS M3215-LVE Dome Camera

Affordable surveillance in 2 MP with deep learning

This cost-effective fixed focal dome offers Lightfinder, Forensic WDR, and OptimizedIR, and ensures excellent image quality under any light conditions. Built on ARTPEC-8, it includes a deep learning processing unit enabling powerful analytics based on deep learning on the edge. Plus, it delivers valuable metadata facilitating fast, easy, and efficient forensic search capabilities. And AXIS Object Analytics offers detection and classification of humans, vehicles, and types of vehicles—all tailored to your specific needs. Featuring audio and I/O connectivity, you can integrate for instance a microphone to extend the value of your system. Furthermore, built-in cybersecurity features safeguard your system.

- > **Excellent image quality in 2 MP**
- > **Lightfinder, Forensic WDR, OptimizedIR**
- > **Analytics with deep learning**
- > **Audio and I/O connectivity**
- > **Built-in cybersecurity features**



AXIS M3215-LVE Dome Camera

Camera

Image sensor

1/2.9" progressive scan RGB CMOS

Lens

3.1 mm, F2.0
Horizontal field of view: 101°
Vertical field of view: 55°
Minimum focus distance: 1.0 m (3.3 ft)
Fixed iris, IR corrected

Day and night

Automatic IR-cut filter
Hybrid IR filter

Minimum illumination

With WDR and Lightfinder:
Color: 0.14 lux at 50 IRE, F2.0
B/W: 0 lux at 50 IRE, F2.0
0 lux with IR illumination on

Shutter speed

1/37000 s to 2 s

Camera adjustment

Pan $\pm 190^\circ$, tilt -10 to $+80^\circ$, rotation $\pm 190^\circ$

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

16:9: 1920x1080 to 160x90

Frame rate

Up to 30/25 fps (60/50 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

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, local contrast, tone mapping, exposure mode, exposure zones, defogging, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, mirroring, dynamic text and image overlay, polygon privacy mask

Pan/Tilt/Zoom

Digital PTZ

Audio

Audio streaming

Two-way audio via edge-to-edge technology

Audio encoding

AAC 8/16/32/44.1/48 kHz, G.711 8 kHz, G.726 8 kHz, Opus 8/16/48 kHz, LPCM 48 kHz
Configurable bit rate

Audio input/output

External microphone input or line input, ring power, digital audio input, automatic gain control
Network speaker pairing

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, PTP, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SOCKS, SSH, SIP, 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; specifications at axis.com

One-click cloud connection

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

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/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

Day/night shift

Defogging

Wide dynamic range

Video streaming indicator

IR illumination

Enable-disable all privacy masks

Play media clip

Edge-to-edge

Siren and light pairing

Event conditions

Analytics, external input, supervised external input, virtual inputs through API

Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay

I/O: digital input, manual trigger, virtual input

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, casing open

Call: state, state change

Video: average bitrate degradation, day-night mode, live stream open, tampering

Audio: audio detection, audio clip playing, audio clip currently playing

Edge storage: recording ongoing, storage disruption, storage health issues detected

Scheduled and recurring: schedule

MQTT: stateless

Event actions

Overlay text, day/night mode, flash status LED, use lights, set defog mode, set WDR mode

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

MQTT: publish

Notification: HTTP, HTTPS, TCP and email

Audio clips: play, stop

Record video: SD card and network share

Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email

Pre- and post-alarm video or image buffering for recording or upload

Calls: answer call, end SIP call, make SIP call

SNMP traps: send, send while the rule is active

Data streaming

Event data

Built-in installation aids

Pixel counter, straighten image, level grid

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 (eay@cryptsoft.com).

Analytics

Applications

Included

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

Supported

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)

Scenarios: line crossing, object in area, crossline counting, occupancy in area, time 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

Approvals

EMC

EN 55032 Class A, 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: KC KN35KC, KN32 Class A

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 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 60068-2-78, IEC/EN 60529 IP66, 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 Client Credential Flow/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 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)², IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS², TLS v1.2/v1.3², 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-, NEMA 4X- and IK10-rated

Polycarbonate hard-coated dome

Plastic casing, sunshield (PC/ASA)

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. 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).

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon) and for wall or ceiling mount
1/2" (M20) or 3/4" (M25) conduit side entry, with conduit adapter

Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Typical 4.8 W, max 10.4 W

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm (0.098 in) terminal block for 1 supervised digital input and 1 digital output (12 V DC output, max. load 25 mA)
Audio: 3.5 mm mic/line in

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs
Range of reach 30 m (98 ft) or more depending on the scene

Storage

Support for microSD/microSDHC/microSDXC card and encryption
Recording to network-attached storage (NAS)
For SD card and NAS recommendations see axis.com

Operating conditions

-40 °C to 50 °C (-40 °F to 122 °F)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Start-up temperature: -30 °C to 50 °C (-22 °F to 122 °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

Without weathershield:
Height: 102 mm (4.0 in)
Ø 149 mm (5.9 in)

Weight

With weathershield:
783 g (1.73 lb)

Included accessories

Installation guide, Windows® decoder 1-user license, drill hole template, RESISTORX® TR20 bit, terminal block connector, cable gaskets, connector guard, weathershield

Optional accessories

AXIS TP3823-E Weathershield Black
AXIS TP3821-E Casing Black
AXIS TM3815-E Dome Smoked
AXIS Surveillance Cards
For more accessories, see 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

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: 12% (bio-based)
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

AXIS M4216-LV Dome Camera

Varifocal 4 MP dome with IR and deep learning

Featuring Lightfinder, WDR, and OptimizedIR, this compact and discreet dome delivers great image quality—day and night, even in low light. A deep learning processing unit (DLPU) lets you take advantage of intelligent analytics based on deep learning on the edge. Designed to blend into any environment, it can be repainted and offers a range of accessories for discreet monitoring. Plus, it features an HDMI port and the flexibility to add audio and I/O connectivity using AXIS T61 Series. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > **Great image quality in 4 MP**
- > **Varifocal lens with remote zoom and focus**
- > **Lightfinder, WDR, and OptimizedIR**
- > **Analytics with deep learning**
- > **HDMI output for public viewing monitors**



AXIS M4216-LV Dome Camera

Camera

Image sensor

1/2.7" progressive scan RGB CMOS¹

Lens

Varifocal, 3–6 mm, F1.9 – 2.7
Horizontal field of view: 100°–45°
Vertical field of view: 72°–34°
Remote focus and zoom, fixed iris

Day and night

Automatic IR-cut filter

Minimum illumination

With Lightfinder:
Color: 0.18 lux at 50 IRE F2.0
B/W: 0.03 lux at 50 IRE F2.0, 0 lux when IR illumination is on

Shutter speed

1/37500 s to 1/5 s

Camera adjustment

Pan $\pm 180^\circ$, tilt -40 to +65°, rotation $\pm 105^\circ$
Can be directed in any direction and see the wall/ceiling

System on chip (SoC)

Model

CV25

Memory

1024 MB RAM, 512 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles
H.265 (MPEG-H Part 2/HEVC) Main and High Profiles
Motion JPEG

Resolution

2304x1728 to 320x240

Frame rate

Up to 25/30 fps with power line frequency 50/60 Hz in H.264 and H.265²

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/MBR H.264/H.265
Low latency mode
HDMI

Multi-view streaming

Up to 2 individually cropped out view areas in full frame rate

HDMI output

HDMI 1080p (16:9) @25/30 Hz refresh rate
HDMI 720p (16:9) @50/60 Hz refresh rate

Image settings

Compression, color, brightness, sharpness, contrast, white balance, exposure control, motion-adaptive exposure, WDR: up to 110 dB depending on scene, text and image overlay, mirroring of images, privacy mask
Rotation: 0°, 90°, 180°, 270°, including Corridor Format

Pan/Tilt/Zoom

Digital PTZ

Audio

Input/output

Audio features through portcast technology: two-way audio connectivity, voice enhancer

1. The native resolution of the image sensor is 5 MP

2. Reduced frame rate in Motion JPEG

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS³, TLS³, 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, DHCP, ARP, SSH, HDMI, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)

System integration

Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com

One-click cloud connection

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

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/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.

Event conditions

Device status: above operating temperature, above or below operating temperature, below operating temperature, IP address removed, network lost, new IP address, system ready, within operating temperature
Edge storage: recording ongoing, storage disruption
I/O: manual trigger, virtual input, digital input via AXIS T61 Audio and I/O Interfaces with portcast technology
MQTT subscribe
Scheduled and recurring: scheduled event
Video: live stream open

Event actions

MQTT publish
Notification: email, HTTP, HTTPS, TCP and SNMP trap
Overlay text, zoom preset, day/night mode
Pre- and post-alarm video or image buffering for recording or upload
Record video: SD card and network share
Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
External output activation via AXIS T61 Audio and I/O Interfaces with portcast technology

Built-in installation aids

Remote zoom, remote focus

Analytics

Applications

Included

AXIS Live Privacy Shield⁴, AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS Face Detector, active tampering alarm

Supported

AXIS People Counter

AXIS Queue 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)

Scenarios: line crossing, object in area, crossline counting, occupancy in area, time in area

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes

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

Approvals

EMC

EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2

Australia/New Zealand: CISPR 24, CISPR 35, RCM AS/NZS CISPR 32 Class A

Canada: ICES-3(A)/NMB-3(A)

Japan: VCCI Class A

Korea: KC KN32 Class A, KC KN35

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IS 13252

IEC 62471

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 (ey@cryptsoft.com).

4. 16:9 capture mode required

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-6, IEC/EN 60529 IP42, IEC/EN 62262 IK08

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

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, 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)⁵, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS⁵, TLS v1.2/v1.3⁵, 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

IP42 water- and dust-resistant, IK08 impact-resistant, polycarbonate and aluminum casing with hard-coated dome

Encapsulated electronics

Color: white NCS S 1002-B

For repainting instructions of casing and impact on warranty, contact your Axis partner.

Sustainability

PVC free, BFR/CFR free, 43% recycled plastics

Power

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

Typical 5 W, max 9.7 W

Connectors

RJ45 10BASE-T/100BASE-TX PoE

HDMI type D

Audio: Audio and I/O connectivity via portcast technology

IR illumination

Optimized IR with power-efficient, long-life 855 nm IR LEDs

Range of reach 20 m (65.6 ft) or more depending on the scene

Storage

Support for microSD/microSDHC/microSDXC card

Support for SD card encryption

Support for recording to network-attached storage (NAS)

For SD card and NAS recommendations see axis.com

Operating conditions

0 °C to 45 °C (32 °F to 113 °F)

Humidity 10–85% RH (non-condensing)

Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Dimensions

Height: 71 mm (2.8 in)

ø 121 mm (4.76 in)

Weight

375 g (0.83 lb)

Included accessories

Installation guide, Windows® decoder 1-user license

5. 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).

Optional accessories

AXIS TM3207 Recessed Mount
AXIS T94C01L Recessed Mount
AXIS T94C01U Universal Mount
AXIS T94C01M J-Box/Gang Box Plate
AXIS M42 Casing A Black 4P
AXIS M42 Smoked Dome A 4P
AXIS T91A33 Lighting Track Mount
AXIS T91A23 Tile Grid Ceiling Mount
AXIS TM3101 Pendant Wall Mount
AXIS Surveillance Cards
For more accessories, see *axis.com*

Languages

English, German, French, Spanish, Italian, Russian,
Japanese, Korean, Portuguese, Simplified Chinese,
Traditional Chinese, Dutch, Czech, Swedish, Finnish,
Turkish, Thai, Vietnamese

Warranty

5-year warranty, see *axis.com/warranty*

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.

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.

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

AXIS P1265 Mk II Modular Pinhole Camera

Complete, extremely discreet pinhole camera delivers full HD resolution

Based on the modular concept, AXIS P1265 Mk II features a tiny, pinhole-sized sensor unit that connects via cable to the main unit, so the two parts can be placed separately from each other. This pinhole sensor unit offers extremely discreet installation. Ideal for a wide range of indoor applications, it's easy to install in tight spaces, for instance, ATMs and ticketing machines. The sensor can be mounted up to 15 m from the main unit and a detachable cable ensures flexible installation and upgrade. Additionally, a deep learning processing unit enables the use of advanced analytics.

- > **Tiny, pinhole-sized sensor unit**
- > **HDTV 1080p with 91° field of view**
- > **Detachable cable up to 15 m**
- > **Support for advanced analytics**
- > **AXIS Object Analytics preinstalled**



AXIS P1265 Mk II Modular Pinhole Camera

Camera

Image sensor

Pixel size 2.8 µm

Lens

3.7 mm, F2.5

Horizontal field of view: 91°

Vertical field of view: 45°

Minimum focus distance: 0.2 m (0.66 ft)

M12 mount, fixed iris, pinhole

Minimum illumination

Color: 0.2 lux at 50 IRE, F2.0

Shutter speed

1/16500 to 1/5 s

System on chip (SoC)

Model

CV25

Memory

1024 MB RAM, 512 MB Flash

Compute capabilities

Deep learning processing unit (DLPU)

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Main and High Profiles

H.265 (MPEG-H Part 2/HEVC) Main Profile

Motion JPEG

Resolution

16:9: 1920x1080 to 640x360

16:10: 1024x640 to 640x400

4:3: 1024x768 to 480x360

Frame rate

Up to 25/30 fps (50/60 Hz) with H.264 and H.265¹ in all resolutions

Video streaming

Multiple, individually configurable streams Axis

Zipstream technology in H.264 and H.265

Axis Zipstream technology in H.264 and H.265

Controllable frame rate and bandwidth

VBR/ABR/MBR H.264/H.265

Signal-to-noise ratio

>55 dB

Multi-view streaming

2 individually cropped out view areas

Image settings

Saturation, contrast, brightness, sharpness, white

balance, , exposure mode, compression, rotation: 0°,

90°, 180°, 270° including corridor format, mirroring,

dynamic text and image overlay, polygon privacy mask

Image processing

Axis Zipstream

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), 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

1. Reduced frame rate in Motion JPEG

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 (ey@cryptsoft.com).

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

Privacy masks
Media clip

Event conditions

Application
Device status: IP address blocked, IP address removed, new IP address, network lost, system ready, live stream active
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: manual trigger, virtual input
MQTT: subscribe
Scheduled and recurring: schedule
Video: average bitrate degradation, tampering, video source connected

Event actions

LED: flash status LED
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

Built-in installation aids

Pixel counter, level grid

Analytics

Applications

Included
AXIS Object Analytics, AXIS Scenemetadata, AXIS Video Motion Detection, AXIS Live Privacy Shield³
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, motion in area, motion line crossing

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes

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

Approvals

Product markings

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

EMC

CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, 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

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3

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 IP3X

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

3. Available for download

Cybersecurity

Edge security

Software: Signed firmware, 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

Hardware: Axis Edge Vault cybersecurity platform
Secure keystore: secure element (CC EAL 6+), system-on-chip security (TEE)
Axis device ID, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

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

IP3X-rated

Main unit: Steel, plastic

Sensor unit: Plastic, aluminum

Color: white NCS S 1002-B

Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 2

Typical 3.4 W, max 4.1 W

Connectors

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

Sensor unit: RJ12

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: -20 °C to 45 °C (-4 °F to 113 °F)

Maximum temperature (intermittent): 60 °C (140 °F)

Humidity: 10–85% RH (non-condensing)

Storage conditions

Temperature: -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.

Weight

Main unit: 75 g (0.17 lb)

Sensor unit: 12.2 g (0.03 lb)

Sensor unit cable: 128 g (0.28 lb)

Box content

Installation guide, owner authentication key

Main unit, sensor unit, 8 m (26 ft) black cable, 1 locking nut

Optional accessories

AXIS T8415 Wireless Installation Tool

AXIS Surveillance Cards

For more accessories, go to axis.com/products/axis-p1265-mk-ii#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-p1265-mk-ii#part-numbers

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 (ey@cryptsoft.com).

Sustainability

Substance control

PVC free

RoHS in accordance with EU RoHS Directive 2011/65/

EU and 2015/863, and standard EN IEC 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP

UUID, see echa.europa.eu

Materials

Renewable carbon-based plastic content: 71%

(recycled)

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

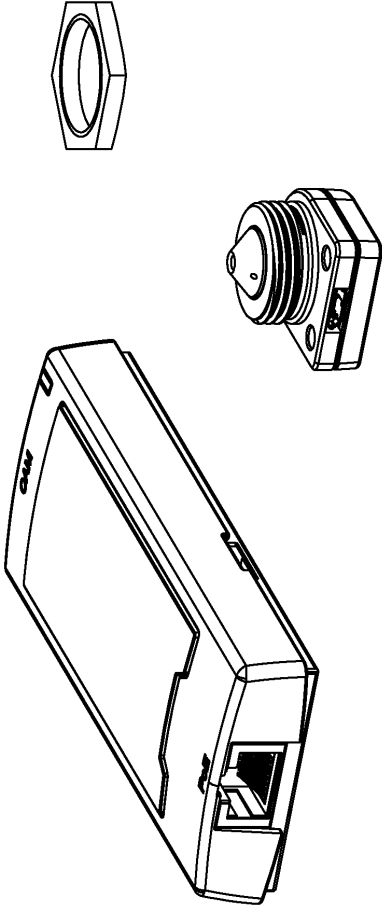
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance
Detect	25 px/m (8 px/ft)	50.6 m (166 ft)
Observe	63 px/m (19 px/ft)	20.1 m (66 ft)
Recognize	125 px/m (38 px/ft)	10.1 m (33.1 ft)
Identify	250 px/m (76 px/ft)	5.1 m (16.7 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

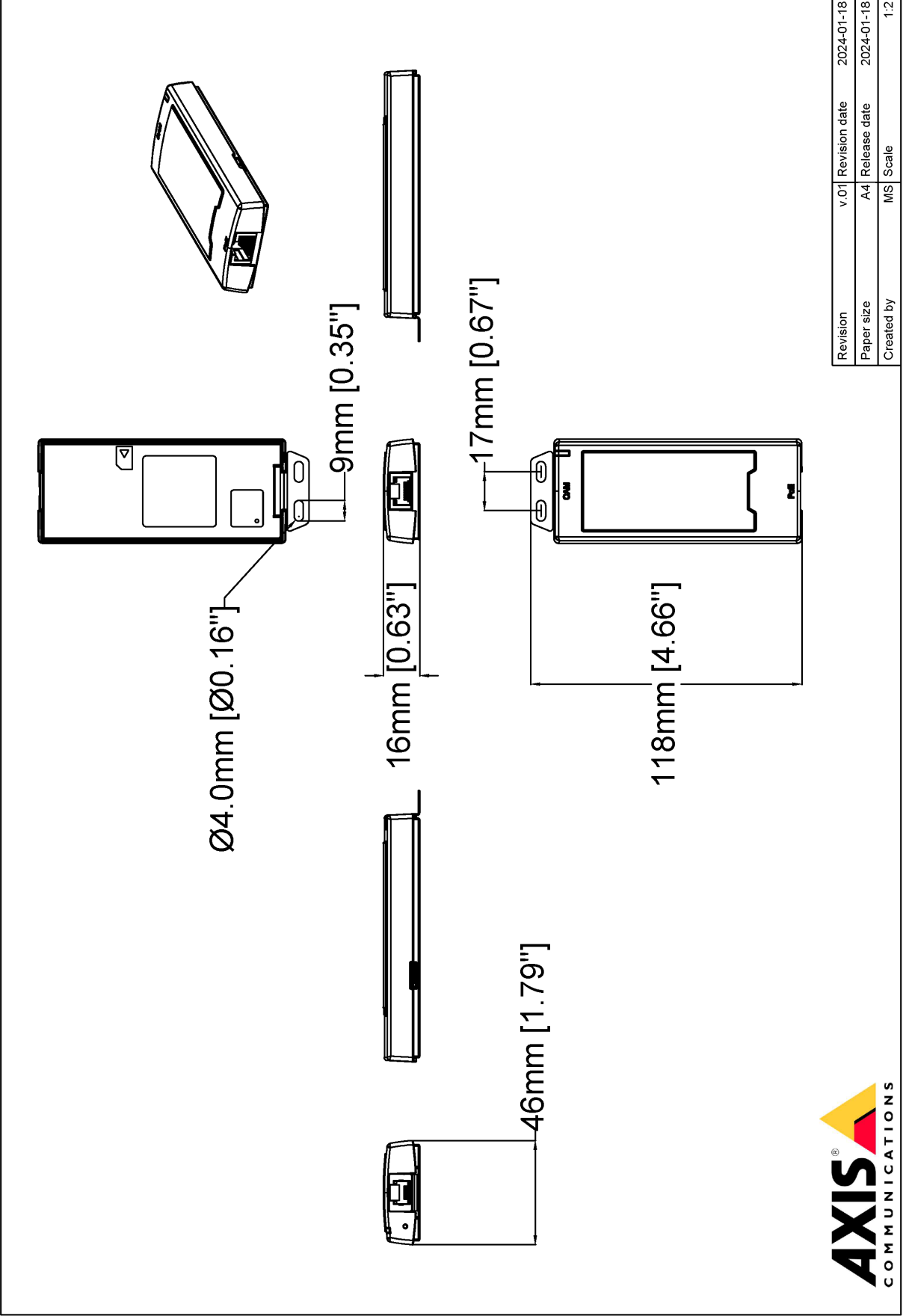


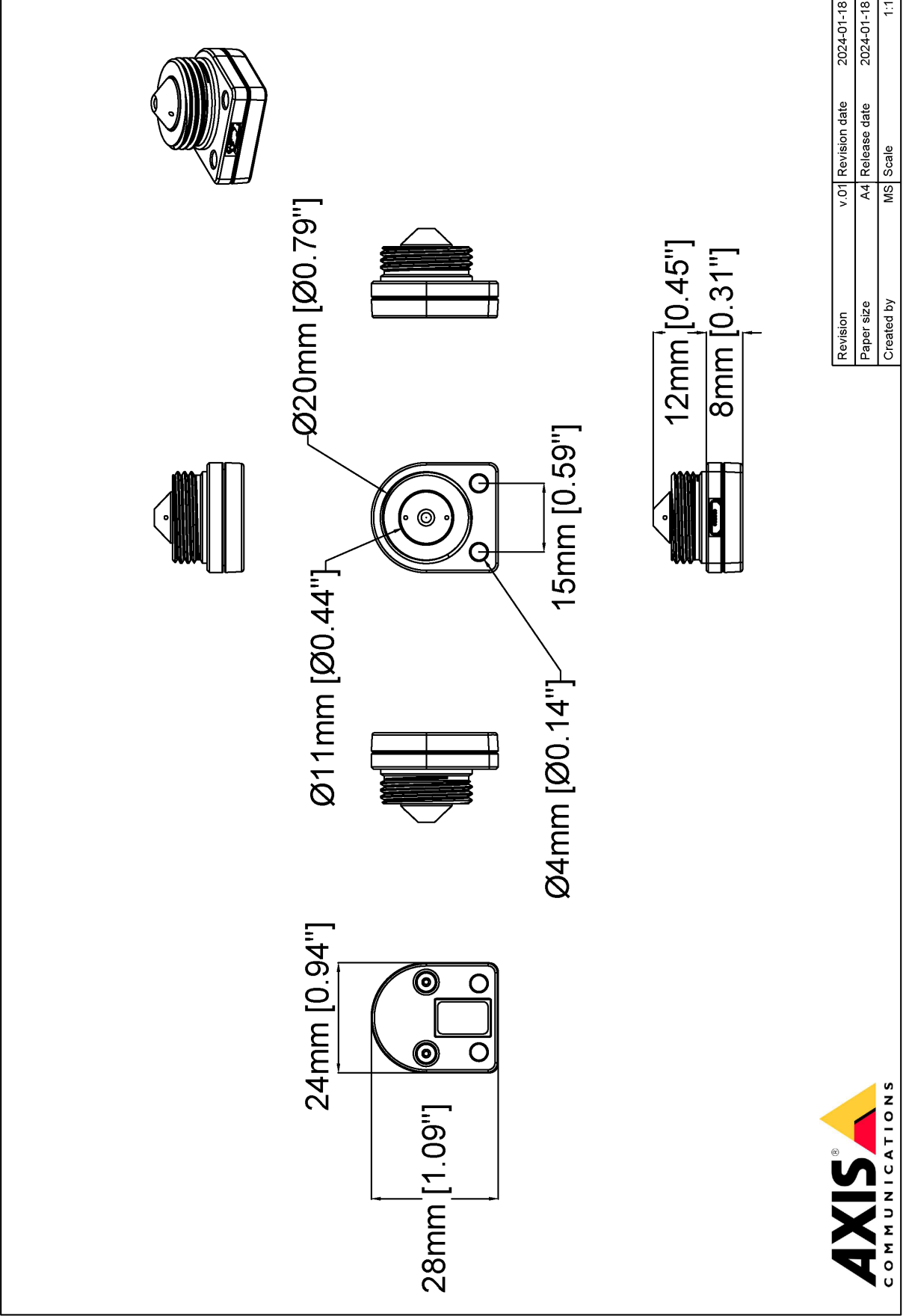


AXIS P1265 Mk II Modular Pinhole Camera

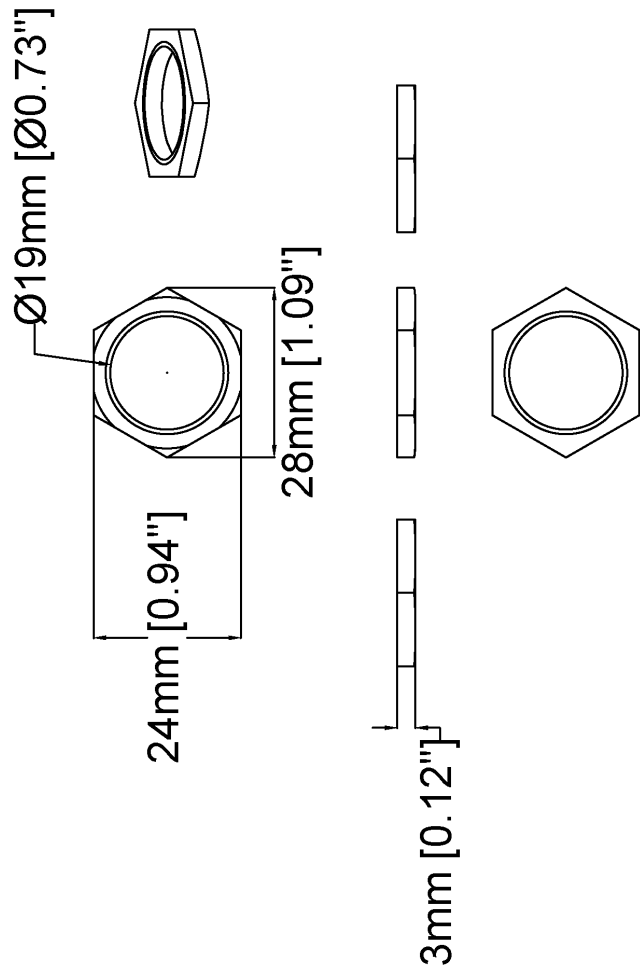
Revision	v.01	Revision date	2024-01-18
Paper size	A4	Release date	2024-01-18
Created by	MS	Scale	1:1

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Created by	MS	Scale	1:1



Revision	v.01	Revision date	2024-01-18
Paper size	A4	Release date	2024-01-18
Created by	MS	Scale	1:1

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 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.

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.

For more information, see axis.com/glossary

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**



AXIS P1487-LE Bullet Camera

Camera

Image sensor

1/2.8" progressive scan RGB CMOS
Pixel size 2.0 µm

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 (ey@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, ISO 21207 (Method B), 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

Optimized IR 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 (ey@cryptosoft.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

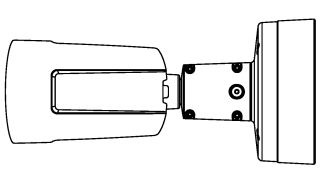
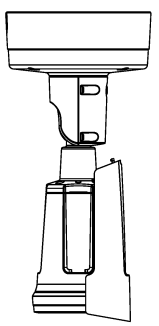
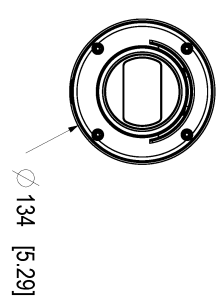
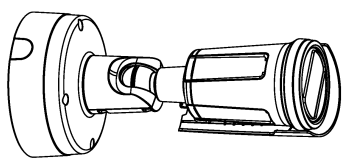
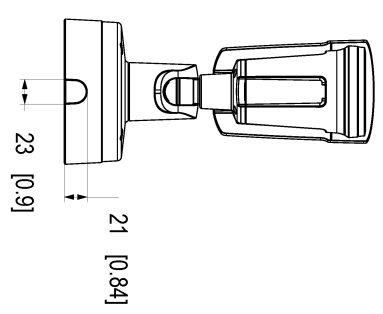
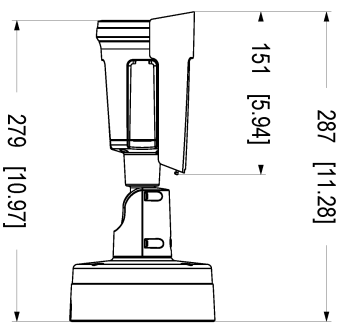
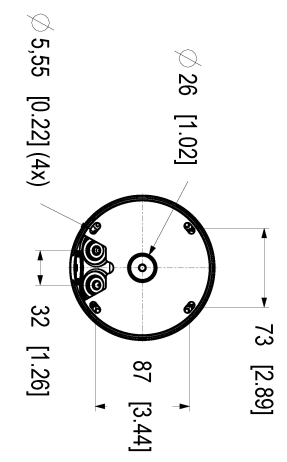
Screened for conflict minerals in accordance with OECD guidelines

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

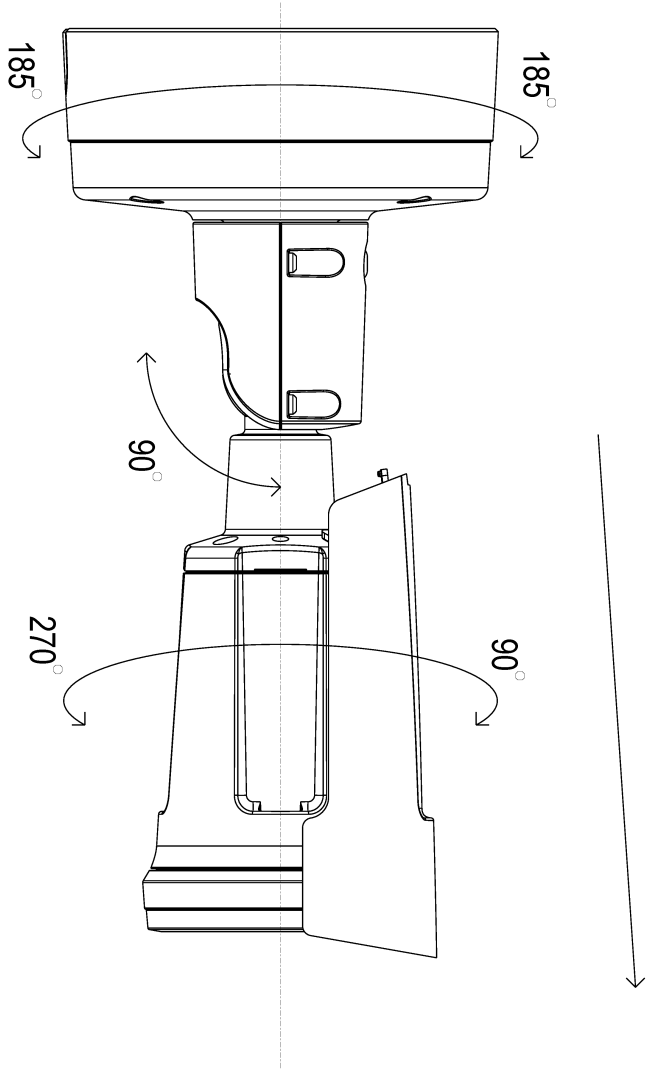
Environmental responsibility

axis.com/environmental-responsibility

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



Weather Shield sliding direction: 15.5 mm [6.10]



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.

AXIS P3278-LV Dome Camera

Indoor 8 MP AI-powered dome

This AI-powered camera delivers excellent image quality in 8 MP under any light conditions. Built on ARTPEC-9, it offers accelerated performance to run impressive analytics applications on the edge. It comes with AXIS Object Analytics to detect, classify, track, and count humans. In addition, AXIS Live Privacy Shield makes it easy to remotely monitor activities while protecting privacy. This robust, IK10- and NEMA 4X-rated camera is both vandal- and impact-resistant. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and protects sensitive information from unauthorized access.

- > **Excellent image quality in 8 MP**
- > **Next-generation AI-powered analytics**
- > **Lightfinder 2.0 and Forensic WDR**
- > **Audio and I/O connectivity**
- > **Built-in cybersecurity with Axis Edge Vault**



AXIS P3278-LV Dome Camera

Camera

Image sensor

1/1.8" progressive scan RGB CMOS
Pixel size 2.0 µm

Lens

Varifocal, 4.4–14.6 mm, F1.65–3.65
Horizontal field of view: 103°–29°
Vertical field of view: 56°–17°
Minimum focus distance: 1 m (3.28 ft)
IR corrected, remote zoom and focus, P-Iris control

Day and night

Automatic IR-cut filter

Minimum illumination

Color: 0.11 lux at 50 IRE, F1.65
B/W: 0.03 lux at 50 IRE, F1.65
0 lux with IR illumination on

Shutter speed

1/66500 s to 2 s

Camera adjustment

Pan ±190°, tilt -45 to +80°, rotation ±95°

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: 3840x2160
16:10: 2560x1600
4:3: 2592x1944

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 AV1, H.264 and H.265
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, local contrast, tone mapping, exposure mode, exposure zones, defog, barrel distortion correction, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, dynamic text and image overlay, overlay widget, privacy masks, target aperture

Image processing

Axis Zipstream, Forensic WDR, Lightfinder 2.0, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ, preset positions
Guard tour, control queue

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
10-band graphic equalizer for audio input
Speaker pairing

Streaming

Configurable duplex:
One-way (simplex, half duplex)
Two-way (half duplex, full duplex) through edge-to-edge technology or portcast

Input

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

Output

Output through speaker pairing or portcast technology

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
Configurable bitrate

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, specifications 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
Defog
Wide dynamic range
Video streaming indicator
IR illumination
Privacy masks
Media clip
Heater

Edge-to-edge

Speaker pairing
Siren and light pairing

Event conditions

Application
Audio: audio detection
Device status: above/below/within operating temperature, casing open, IP address blocked/removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready
Digital audio: digital signal contains Axis metadata, digital signal has invalid sample 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: stateless
Scheduled and recurring: schedule
Video: average bitrate degradation, day-night mode, tampering

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).

Event actions

Day-night mode
Defog: Set Defog mode, set Defog mode while the rule is active
I/O: toggle I/O once, toggle I/O while the rule is active
Illumination: use lights, use lights while the rule is active
LEDs: flash status LED, flash status LED while the rule is active
MQTT: publish
Notification: HTTP, HTTPS, TCP and email
Overlay text
Recordings: SD card and network share
Security: erase configuration
SNMP traps: send, send while the rule is active
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, level grid

Analytics

Applications

Included

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

Supported

AXIS Perimeter Defender, AXIS License Plate Verifier
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

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

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

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES(A)/NMB(A)

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, IEC/EN 62471 risk group exempt

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC/EN 60529 IP54, IEC/EN 62262 IK10

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 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)

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)

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

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

IP54-, and IK10-rated

Polycarbonate hard-coated dome

Plastic casing

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.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, and 4" octagon)

Power

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

Max 12.9 W, typical (heater off, IR off) 5.5 W

Features: power meter

Environmental sensors

Environmental sensors through portcast technology accessories. For more information, see *Optional accessories*.

I/O functionality

I/O: Terminal block for one configurable supervised input/digital output (12 V DC output, max load 25 mA)
I/O connectivity through portcast technology accessories. For more information, see *Optional accessories*.

Connectors

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

I/O: 4-pin 2.5 mm terminal block for 1 alarm input and 1 output

Audio: 3.5 mm mic/line in

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs

Range of reach 40 m (130 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: 0 °C to 50 °C (32 °F to 122 °F)

Humidity: 10–85% RH (non-condensing)

Storage conditions

Temperature: -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.

Weight

810 g (1.8 lb)

Box content

Camera, installation guide, terminal block connector, connector guard, cable gasket, owner authentication key

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).

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-p3278-lv#part-numbers

Optional accessories

Portcast

AXIS T61 MkII Audio and I/O Interface Series
AXIS D6210 Air Quality Sensor

Installation

AXIS T8415 Wireless Installation Tool

Mounting

AXIS TP3205 Recessed mount, AXIS T94K01D Pendant Kit

Storage

AXIS Surveillance Cards

For more accessories, go to axis.com/products/axis-p3278-lv#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 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

Renewable carbon-based plastic content: 41% (bio-based: 39%, carbon capture based: 2%)
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

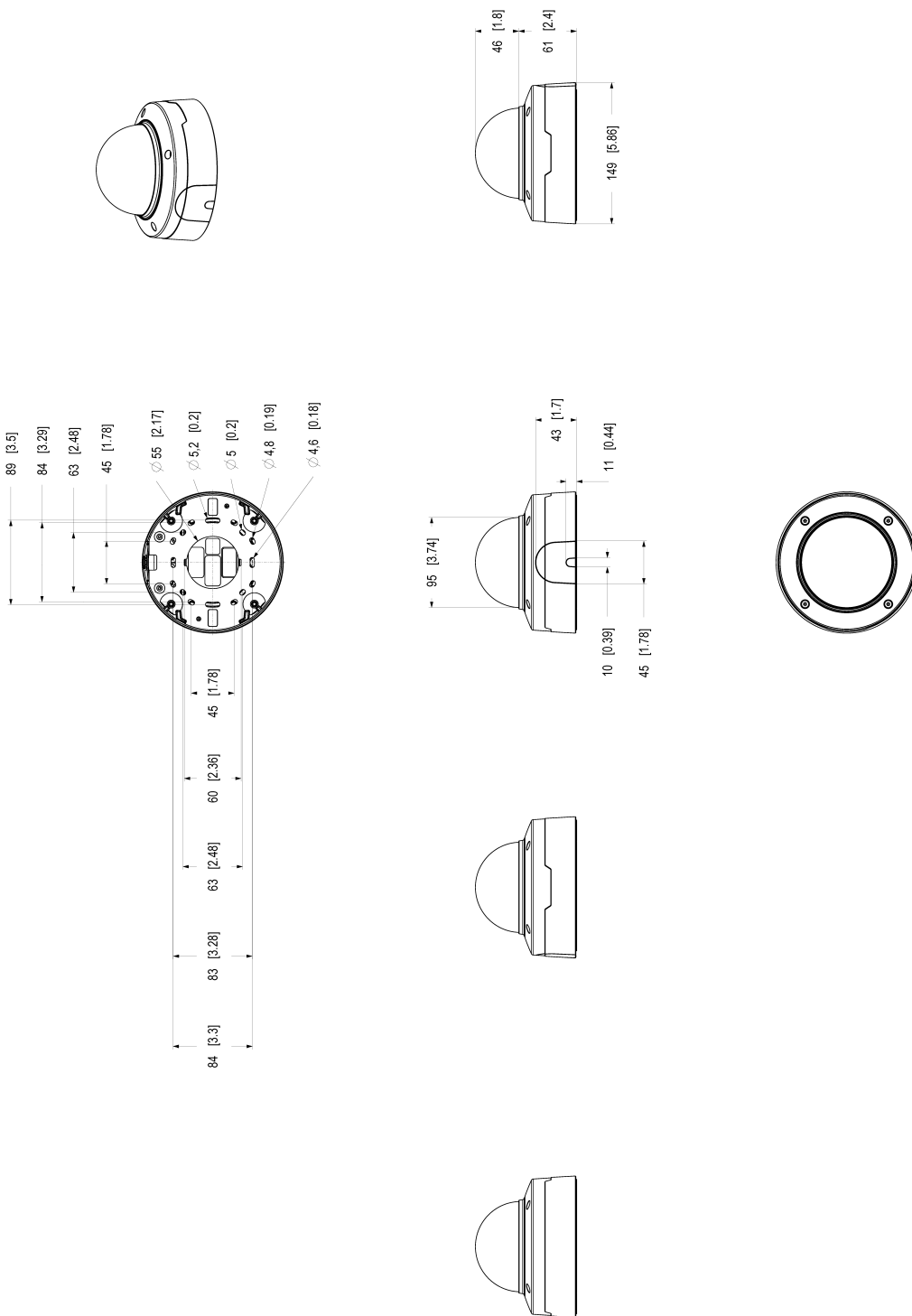
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	88 m (289 ft)	292 m (958 ft)
Observe	63 px/m (19 px/ft)	35 m (115 ft)	116 m (380 ft)
Recognize	125 px/m (38 px/ft)	18 m (59 ft)	58 m (190 ft)
Identify	250 px/m (76 px/ft)	9 m (30 ft)	29 m (95 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



Highlighted capabilities

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 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.

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.

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.

AXIS P3818-PVE Panoramic Camera

Seamless, 180° coverage with no blind spots

AXIS P3818-PVE delivers a 180° panoramic overview of extensive areas with ultra-high resolution images and incredible details up to 30 fps. With 13 MP resolution and seamless stitching of all three images, it offers 180° horizontal and 90° vertical coverage with no blind spots. Including a variety of mounting options, it's also possible to mount two cameras back-to-back for a complete 360° overview, using AXIS T94V01C Dual Camera Mount. Featuring edge-to-edge technology, it's easy to add support for audio enabling you to listen in to transactions or incidents. Additionally, built-in cybersecurity features prevent unauthorized access and safeguard your system.

- > 13 MP multisensor camera with one IP address
- > 180° horizontal, 90° vertical coverage
- > Seamlessly stitched images
- > Support for audio input
- > Built-in cybersecurity features



AXIS P3818-PVE Panoramic Camera

Camera

Image sensor

3 x 5 MP 1/2.8" progressive scan RGB CMOS

Lens

Fixed 3.2 mm, F2.0
Horizontal field of view: 180°
Vertical field of view: 90°

Day and night

Automatically removable infrared-cut filter

Minimum illumination

With Forensic WDR and Lightfinder:
Color: 0.16 lux, F2.0
B/W: 0.05 lux, F2.0

Shutter speed

1/91000 to 1/25 s
With WDR: 1/50000 to 1/25 s

Camera adjustment

Pan +/- 180°
Tilt 0° to 50°
Roll +/- 5°

System on chip (SoC)

Model

ARTPEC-7 (x2)

Memory

2048 MB RAM (x2), 512 MB Flash

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

5120x2560 (13.1 MP) to 256x128

Frame rate

13.1 MP @ 25/30 fps (50/60 Hz) WDR

Video streaming

13.1 MP: 1 configurable stream in H.264, H.265 and Motion JPEG in full frame rate
Controllable frame rate and bandwidth
VBR/ABR/MBR H.264/H.265
Low latency mode

Image settings

Saturation, contrast, brightness, sharpness, Forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, compression, dynamic text and image overlay, orientation aid, exposure control, noise reduction, fine tuning of behavior at low light, polygon privacy masks

Audio

Audio streaming

Two-way audio via edge-to-edge technology

Audio input/output

External microphone input, line input, digital audio input, automatic gain control, network speaker pairing

Audio 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, 44.1 kHz ACC-LC, LPCM
Configurable bit rate

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS¹, TLS¹, 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, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

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 (eay@cryptsoft.com).

System integration

Application Programming Interface

Open API for software integration

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

Event conditions

Analytics, external input, supervised external input, edge storage events, virtual inputs through API

Audio: audio detection

Digital audio: digital signal contains Axis metadata, digital signal as invalid sample rate, digital signal missing, digital signal ok

Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature, casing open, ring power overcurrent protection

Edge storage: recording ongoing, storage disruption, storage health issues detected

I/O: digital input, manual trigger, virtual input

MQTT subscribe

Scheduled and recurring: scheduled event

Video: live stream open, average bitrate degradation, day-night mode, tampering

Event actions

Day/night mode, overlay text, video recording to edge storage, pre- and post-alarm video buffering, send SNMP trap, play audio clipm I/O events, status LED events

File upload: FTP, SFTP, HTTP, HTTPS network share, email MQTT publish

Notification: email, HTTP, HTTPS TCP

Data streaming

Event data

Built-in installation aids

Pixel counter, leveling guide

Analytics

Applications

Included

AXIS Fence Guard, AXIS Motion Guard, AXIS Loitering Guard

AXIS Video Motion Detection, active tampering alarm, audio detection

Supported

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

Approvals

EMC

EAC, CISPR 24, CISPR 35, EN 55024, EN 55035, EN 55032 Class A, EN 50121-4, 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: KC KN35, KC KN32 Class A

USA: FCC Part 15 Subpart B Class A

Railway: IEC 62236-4

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3, CAN/CSA C22.2 No. 60950-22, IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, 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), MIL-STD-810H (Method 501.7), 502.7, 505.7, 506.6, 507.6, 509.7, 512.6

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 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 TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), Axis device ID, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS², TLS v1.2/v1.3², 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- and NEMA 4X-rated, IK10-rated impact-resistant casing with polycarbonate hard coated clear dome, aluminum base and dehumidifying membrane
Color: white NCS S 1002-B
Casing open detection
For repainting instructions and impact on warranty, contact your distributor partner.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, 4" square, and 4" octagon) and for wall or ceiling mount
3/4" (M25) conduit side entries

Sustainability

PVC free, 20% recycled plastic

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
Typical 11 W, max 18 W

Connectors

Shielded RJ45 1000BASE-T
Terminal block for two configurable supervised inputs/digital outputs (12 V DC output, max load 50 mA), 3.5 mm analog/digital mic/line in

Storage

Support for microSD/microSDHC/microSDXC card
Support for SD card encryption (AES-XTS-Plain64 256bit)
Support for recording to network-attached storage (NAS)

Operating conditions

-40 °C to 50 °C (-40 °F to 122 °F)
Humidity 10–100% RH (condensing)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Start-up temperature: -40 °C

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5–95% RH (non-condensing)

Dimensions

Height: 170 mm (6.6 in)
Width in diameter: 195 mm (7.6 in)
With weathershield:
Height 221 mm (8.7 in)
Width 206 mm (8.1 in)

Weight

2.2 kg (4.9 lb)

Mounting height

Recommended: 4–15 m

Included accessories

Installation guide, Windows® decoder 1-user license, weathershield, RESITORX® T20 bit, connector guard

Optional accessories

AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
AXIS TQ3102 Pendant Kit
AXIS TQ3101-E Pendant Kit
AXIS TQ3201-E Recessed Mount³
AXIS T94V01C Dual Camera Mount
For more accessories, see axis.com

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 (ey@cryptsoft.com).

3. The camera's tampering alarm doesn't work when mounted in AXIS TQ3201-E Recessed Mount

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

AXIS Q1805-LE Bullet Camera

First-class 2 MP surveillance with 32x zoom

AXIS Q1805-LE delivers HDTV 1080p at 90 fps and 32x optical zoom for all the details. This easy-to-install camera features IDC network connectors as well as a spacious back box for secure cable management. With PoE-out, it can power other devices such as a strobe siren or audio speaker. A deep learning processing unit makes it possible to take advantage of intelligent tailor-made applications based on deep learning on the edge. And, with AXIS Object Analytics it's possible to detect and classify moving objects. Furthermore, Axis Edge Vault safeguards your device and offers secure key storage with FIPS 140-2 level 2 certification.

- > Outstanding image quality in 1080p
- > PoE-out to power an additional device
- > Analytics with deep learning
- > Electronic image stabilization
- > Axis Edge Vault safeguards device



AXIS Q1805-LE Bullet Camera

Camera

Image sensor

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

Lens

Varifocal, 4.3–137 mm, F1.4–4.0
Horizontal field of view: 60°–2.3°
Vertical field of view: 39°–1.3°
Minimum focus distance: 1.2 m (3.9 ft)
Remote zoom and focus, P-Iris control
Thread for 62 mm filters, max filter thickness: 5 mm

Day and night

Automatically removable IR-cut filter in day mode and IR-pass filter 720 nm in night mode

Minimum illumination

Color: 0.06 lux at 50 IRE, F1.4
B/W: 0.01 lux at 50 IRE, F1.4
0 lux with IR illumination on

Shutter speed

1080p @ 25/30 fps (WDR): 1/37000 s to 2 s
1080p @ 50/60 fps: 1/71500 s to 2 s
1080p @ 90 fps: 1/111000 s to 2 s

Camera adjustment

Pan ±180°, tilt 0 to -90°, roll -90 to 270°

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

4:3: 1400x1050 to 160x120
16:9 1920x1080 to 320x180

Frame rate

With WDR: up to 25/30 fps (50/60 Hz) in all resolutions
Without WDR: up to 90 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

Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, 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, polygon privacy mask
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, OptimizedIR

Pan/Tilt/Zoom

Digital PTZ, optical zoom, preset positions
Limited guard tour, control queue, on-screen directional indicator
Tour recording (max 10, max duration 16 minutes each), guard tour (max 100), adjustable zoom speed

Audio

Features

Automatic gain control
Speaker pairing
Spectrum visualizer²

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
Microphone pairing

Output

Output via 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, HTTPS³, HTTP/2, TLS³, 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, DHCPv4/v6, SSH, NTCIP, 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

Image stabilization
Day/night shift
Defogging
Video streaming indicator

Event conditions

Device status: above/below/within operating temperature, IP address blocked, IP address removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready, within operating temperature
Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal missing, digital signal okay
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: digital input is active, manual trigger, virtual input
MQTT: stateless
Scheduled and recurring: schedule
Video: average bitrate degradation, day-night mode, tampering

2. Feature available with ACAP

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 (eyay@cryptsoft.com).

Event actions

Day-night mode
Defog
I/O: toggle I/O once, toggle I/O while the rule is active
Illumination: use lights, use lights while the rule is active
Images: send images through FTP, HTTP, SFTP
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
Video clips: send video clips through FTP, HTTP, HTTP, SFTP
WDR mode

Built-in installation aids

Pixel counter, remote zoom and focus, level grid, leveling assistant

Analytics

Applications

Included
AXIS Object Analytics, AXIS Scene Metadata, AXIS Image Health Analytics
AXIS Live Privacy Shield, AXIS Video Motion Detection, active tampering alarm, audio detection, orientation aid
Supported
AXIS License Plate Verifier, AXIS Perimeter Defender, 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^{BETA}, occupancy in area^{BETA}
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

Approvals

Product markings

UL/cUL, BIS, 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 1, 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 body, IK08 glass, 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, 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)⁴, 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-, and NEMA 4X-rated

IK10 impact-resistant aluminum enclosure with integrated dehumidifying membrane, IK08 impact-resistant glass front window, weathershield with black anti-glare coating

Color: white NCS S 1002-B, black NCS S 9000-N

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 (PoE) IEEE 802.3af/802.3at Type 1 Class 3, typical 12.6 W, max 12.95 W (no IR, no heaters)

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4, typical 12.6 W, max 25.5 W

Power over Ethernet (PoE) IEEE 802.3bt Type 3 Class 6, typical 12.6 W, max 51 W

Midspan 60 W, IEEE 802.3bt Type 3 Class 6 required for PoE out IEEE 802.3at Type 2 Class 4 (30 W) to a second device

10–28 V DC, typical 11 W, max 29 W

20–24 V AC, typical 11 VA, max 28 VA

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE, RJ45 1000BASE-T PoE output to power an external PoE device

I/O: 4-pin 2.5 mm terminal block for two configurable supervised inputs / digital outputs (12 V DC output, max. load 50 mA)

Audio: 3.5 mm mic/line in

Power: DC input

IR illumination

Optimized IR with power-efficient, long-life 850 nm IR LEDs

Range of reach 100 m (328 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 TS 2 (2.2.7): 74 °C (165 °F)

Humidity: 10–100% RH (condensing)

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

Storage conditions

Temperature: -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): 0.0478 m² (0.51 ft²)

Weight

3200g (7.05 lb)

Box content

Camera, installation guide, terminal block connector, RJ45 cable, connector guard, cable gaskets, owner authentication key

Optional accessories

AXIS T8415 Wireless Installation Tool

AXIS Surveillance Cards

For more accessories, go to axis.com/products/axis-q1805-le#accessories

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).

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-q1805-le#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: 65% (bio-based)
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

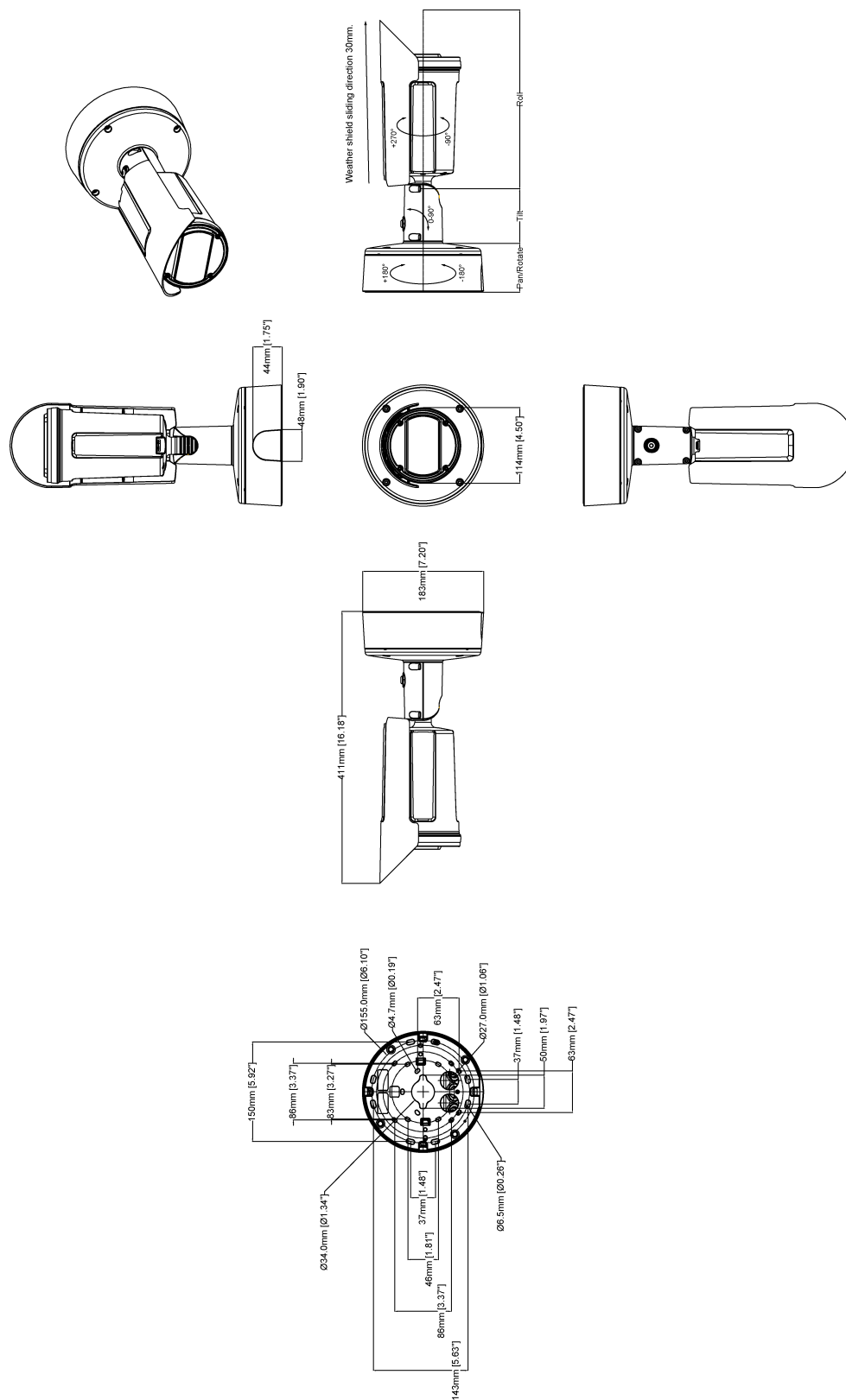
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Detect, Observe, Recognize, Identify (DORI)

	DORI definition	Distance (wide)	Distance (tele)
Detect	25 px/m (8 px/ft)	60.5 m (198.4 ft)	1884.2 m (6180.2 ft)
Observe	63 px/m (19 px/ft)	24.0 m (78.7 ft)	747.7 m (2452.5 ft)
Recognize	125 px/m (38 px/ft)	12.1 m (39.7 ft)	376.8 m (1235.9 ft)
Identify	250 px/m (76 px/ft)	6.0 m (19.7 ft)	188.4 m (617.9 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



Revision	v 01	Revision date	2023-05-22
Paper size	A4	Release date	2023-05-22
Created by	MF	Scale	1:8

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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.

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.

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.

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

AXIS T91A23

Flexible mount for drop-ceiling tile grids

AXIS T91A23 Tile Grid Ceiling Mount is a unique accessory designed for mounting Axis cameras and stands on a variety of drop-ceiling tile grid systems. With no need for drilling and minimum alteration to the ceiling, the mount helps to save time and money during installation. Whenever needed, the camera can be quickly repositioned along the grid rails to cover a new field of view. AXIS T91A23 is compatible with AXIS Safety Wire for a secure ceiling installation. The mount is ideal for retail, banking, commercial and education environments.

- > **Quick and instant grip to the tile grid**
- > **No drilling or damages to ceiling tiles**
- > **Easily reposition the camera when needed**
- > **Compatible with wide range of drop-ceiling systems**



AXIS T91A23

Models	AXIS T91A23 Tile Grid Ceiling Mount		AXIS M10 Series, AXIS M11 Series, AXIS Companion Cube L, AXIS Companion Cube LW
General			AXIS T91B21 Stand Black/White, required for: AXIS P13 Series, AXIS Q16 Series
Mounting	Compatible tile grids (T-bar rails): 15 mm (0.6 in), 24 mm (0.9 in), 35 mm (1.4 in) Compatible ceiling tiles: Square edge, Regular edge (max depth of 10 mm (0.4 in))		
Supported products	Directly compatible with: AXIS M2025-LE, AXIS M2026-LE Mk II, AXIS M3024-LVE, AXIS M3025-VE, AXIS M3026-VE, AXIS M3027-PVE, AXIS M3037-PVE, AXIS M3044-V, AXIS M3044-WV, AXIS M3045-V, AXIS M3045-WV, AXIS M3046-V, AXIS M3047-P, AXIS M3048-P, AXIS M3057-PLVE, AXIS M3058-PLVE, AXIS M3104, AXIS M3104-L, AXIS M3104-LVE, AXIS M3105, AXIS M3105-L, AXIS M3105-LVE, AXIS M3106-L Mk II, AXIS M3106-LVE Mk II, AXIS M4216-V, AXIS M4216-LV, AXIS M5054, AXIS M5055, AXIS M5065, AXIS P3224-LV Mk II, AXIS P3224-V Mk II, AXIS P3225-LV Mk II, AXIS P3225-LVE Mk II, AXIS P3225-V Mk II, AXIS P3225-VE Mk II, AXIS P3227-LV, AXIS P3227-LVE, AXIS P3228-LV, AXIS P3228-LVE, AXIS P3367-V, AXIS P3374-LV, AXIS P3375-LV, AXIS P3375-V, AXIS Companion Dome V, AXIS Companion Dome WV, AXIS Companion 360, AXIS Companion Eye L, AXIS Companion Eye LVE, AXIS Companion Eye Mini L, AXIS Companion Bullet Mini LE AXIS T91A10 Mounting Kit, required for: AXIS M1045-LW, AXIS M1065-L, AXIS M1065-LW, AXIS F8205/F8215 with AXIS F1005-E, AXIS F8205/F8215 with AXIS F1015, AXIS F8205/F8215 with AXIS P1280-E, AXIS T8331, AXIS T8331-E AXIS T91A11 Stand White, required for:		
	Maximum load	2000 g (4.4 lb)	
	Environment	Indoor	
	Casing	Plastic Color: white NCS S 1002-B	
	Sustainability	PVC free	
	Operating conditions	-10 °C to 40 °C (14 °F to 104 °F) Humidity 10–85% RH (non-condensing)	
	Storage conditions	-40 °C to 70 °C (-40 °F to 158 °F)	
	Approvals	Safety IEC/EN 62368-1 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27	
	Dimensions	Height: 23.5 mm (0.9 in) ø 111.5 mm (4.4 in)	
	Weight	76 g (0.17 lb)	
	Included accessories	Installation guide, mounting screws, UNC mounting screw, locking screws	
	Warranty	3-year warranty, see axis.com/warranty	

Environmental responsibility:

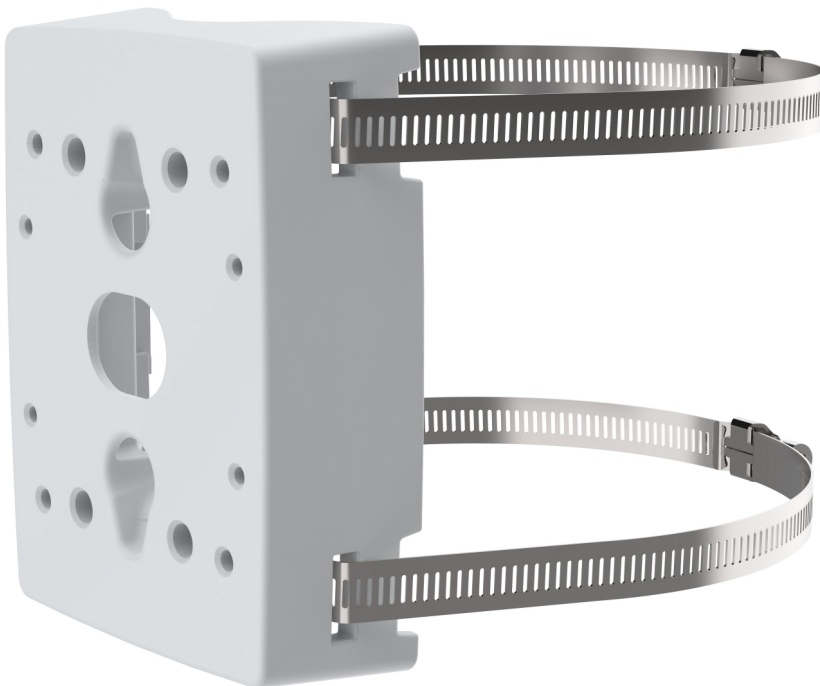
axis.com/environmental-responsibility

AXIS T91B47

Pole mount for different pole diameters

AXIS T91B47 Pole Mount is designed for both indoor and outdoor use. It is available in two versions with different lengths of marine-grade (SS316L) stainless steel straps. One version for poles with diameter between 50–150 mm (2–6 in), and one for poles with diameter between 100–410 mm (4–16 in) in diameter. Additionally, it can be used for attaching cameras to beams. When AXIS T91B47 is used for Axis fixed dome or fixed bullet cameras, no additional accessories such as pendant kits are required, ensuring a cost-efficient solution.

- > Suitable for a wide range of pole diameters
- > Safe and easy to install
- > IK10-rated vandal resistance
- > NEMA 4X-rated corrosion protection
- > Axis stainless steel (SS316L) straps included



AXIS T91B47

Models	AXIS T91B47 Pole Mount 50–150 mm AXIS T91B47 Pole Mount 100–410 mm	Sustainability	PVC free
General		Environment	Indoor Outdoor
Supported products	Compatible Axis network cameras: Outdoor fixed box cameras: AXIS M11/P13/Q16 Series Fixed bullet cameras: AXIS P14/Q17 Series Fixed dome cameras: AXIS M30/P32/P33/Q35/Q36 Series Thermal cameras: AXIS Q19/Q29 Series Compatible Axis accessories: AXIS T91E61 Wall Mount AXIS T94Q01A Wall Mount AXIS P33 Mounting Bracket AXIS T92E Housing Series AXIS T93F Housing Series AXIS T93G05 Protective Housing	Approvals	Safety IEC/EN/UL 60950-1, IEC/EN/UL 60950-22 Environment EN 50581, NEMA 250 Type 4X ^a Impact IEC 62262 IK10
Pole diameter	AXIS T91B47 Pole Mount 50–150 mm: 50–150 mm (2–6 in) AXIS T91B47 Pole Mount 100–410 mm: 100–410 mm (4–16 in)	Dimensions	111 x 42 x 147 mm (4 3/8 x 1 5/8 x 5 13/16 in)
Maximum load	15 kg (33 lb)	Weight	0.3 kg (0.7 lb) without steel straps
Cable routing	Back: Cable hole Side: U-shaped cable hole (26 mm/1 in)	Included accessories	Installation Guide Cable ties, Screws Stainless steel straps
Casing	NEMA 4X- and IK10-rated powder-coated aluminum mount Color: white NCS S 1002-B	Warranty	Axis 3-year warranty, see www.axis.com/warranty

a. Corrosion protected only

Environmental responsibility:

axis.com/environmental-responsibility

AXIS T94S01P

Outdoor protection for cabling and devices connected to Axis cameras

AXIS T94S01P Conduit Back Box is an outdoor-ready, impact resistant (IK10+) back box designed to be mounted behind a wide range of Axis network cameras. It has an ingress-protected (IP66/IP67) compartment for secure storage of connectivity devices. Examples include storing an IP-over-COAX adapter to re-use legacy cabling or a network cable coupler to bridge between rigid and flexible network cables. AXIS T94S01P enables both camera and connectivity device to be safely mounted at the same point, without need for extra cabinet installation (even directly onto junction boxes). The finished installation is both aesthetically pleasing and able to withstand challenging outdoor conditions.

- > **IP66/IP67 storage compartment for connectivity devices**
- > **Impact resistant (IK10+) against vandalism attempts**
- > **3/4 " / M25 conduit interface from both side and back**
- > **Compatible with a wide range of Axis network cameras**



AXIS T94S01P

General	
Supported products	AXIS P32 Network Camera Series AXIS P33 Network Camera Series AXIS Q35 Network Camera Series AXIS Q36 Network Camera Series
Environment	Indoor/outdoor
Mounting	Double Gang Box, Single Gang Box, 4" Octagon Junction Box, 4" Square Junction Box
Casing	Material: powder-coated aluminum casing, stainless steel screws (TX20) Color: white NCS S 1002-B
Cable routing	Back: 3 cable holes Sides: 3/4" conduit entrances Underside: 4x gaskets C M20 5–9.5 mm Top cover: 3x gaskets C M20 5–9.5 mm
Maximum load	2.3 kg (5 lb)
Dimensions	Height: 53.5 mm (2 1/8 in) ø 157 mm (6 3/16 in)
Weight	750 g (1.65 lb)
Sustainability	PVC free
Approvals	Safety IEC/EN/UL 62368–1, IEC/EN/UL 60950–22 Environment IEC 60068–2–6, IEC 60068–2–27, IEC/EN 60529 IP66/IP67, NEMA 250 Type 4X Impact IEC/EN 62262 IK10+
Included accessories	Installation Guide, 3x Gasket C M20 Cable 3–5 mm, 4x stainless steel screws (TX20) and washers
Optional accessories	AXIS T91A47 Pole Mount, AXIS T94R01B Corner Bracket, AXIS ACI Conduit Adapter 3/4" U-Shape 30 mm, AXIS ACI Conduit Adapter 3/4" NPS, Network cable coupler indoor, Network cable coupler indoor slim
Warranty	3-year warranty, see axis.com/warranty

Environmental responsibility:

axis.com/environmental-responsibility

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Registration End Date: 12-31-2027



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RCDD
Since 07-15-2000

A handwritten signature in black ink, appearing to read 'William Foy', written over a horizontal line.

William "Bill" Foy, RCDD, DCDC, ESS, NTS, OSP, WD
BICSI Board President

A handwritten signature in black ink, appearing to read 'John H. Daniels', written over a horizontal line.

John H. Daniels, CNM, LFACHE, FHIMSS, CPHIMS
BICSI Chief Executive Officer

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RTPM

Since 08-01-2012

A handwritten signature in black ink, appearing to read 'William Foy', written over a horizontal line.

William "Bill" Foy, RCDD, DCDC, ESS, NTS, OSP, WD
BICSI Board President

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John H. Daniels, CNM, LFACHE, FHIMSS, CPHIMS
BICSI Chief Executive Officer

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Designation Number: 116051

Registration Start Date: 06-29-2002

Registration End Date: 12-31-2028



BICSI
NTS

Since 06-29-2002



William "Bill" Foy, RCDD, DCDC, ESS, NTS, OSP, WD
BICSI Board President



John H. Daniels, CNM, LFACHE, FHIMSS, CPHIMS
BICSI Chief Executive Officer

State of Mississippi

BOARD OF CONTRACTORS

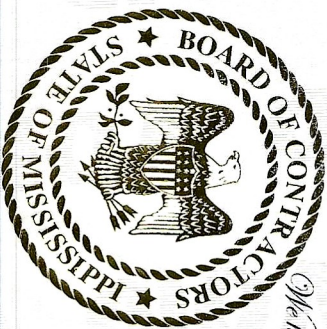
ACTIVE

SOUTHERN COMPUTER SYSTEMS, INC.
D/B/A CYBER TECHNOLOGY SECURITY
226 MAIN STREET EAST
SENATORIA, MS 38668

is duly registered and entitled to perform

- 1) ALARMS SYSTEMS/ACCESS SYSTEMS/SECURITY 2) CABLE INSTALLATION
3) CABLE SYSTEMS 4) COMMUNICATION CABLING
5) COMMUNICATION SYSTEMS AND LOW VOLTAGE ELECTRICAL 6) ELECTRONIC
AND COMPUTER INSTALLATION
7) FIBER OPTICS 8) INSTALL. OF CONST. SPEC./FURN./EQUIP.

We have herewith set our hand and caused the Seal of the Mississippi Board of Contractors to be affixed this 1 day of Mar., 2026



CERTIFICATE OF RESPONSIBILITY

No. 11151-SC

Expires Mar. 1, 2027

Joel A. Canfield

CHAIRMAN OF THE BOARD