

# AXIS P1275 Mk II Modular Varifocal Dome Camera

Complete, discreet varifocal dome delivers full HD resolution

Based on the modular concept, AXIS P1275 Mk II features a small main unit that connects via cable to a small dome sensor, so the two parts can be placed separately from each other. With a 2.8-6 mm varifocal lens, you can adjust the field of view 99°- 53° and choose between clear overviews or detailed close-ups. Ideal for a wide range of applications, it's easy to install in tight spaces. The dome 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.

- > **Small dome main unit**
- > **HDTV 1080p with 99°-55° field of view**
- > **Detachable cable up to 15 m**
- > **Support for advanced analytics**
- > **AXIS Object Analytics preinstalled**



# AXIS P1275 Mk II Modular Varifocal Dome Camera

## Camera

### Image sensor

Pixel size 2.8 µm

### Lens

Varifocal 2.8–6.0 mm, F2.0  
Horizontal field of view: 99°–53°  
Vertical field of view: 53°–30°  
Minimum focus distance: 0.1 m (0.33 ft)  
M12 mount, fixed iris, varifocal

### Minimum illumination

Color: 0.2 lux at 50 IRE, F2.0

### Shutter speed

1/16500 to 1/5 s

### Camera adjustment

Pan 360°, tilt 0 to 90°, rotation 360°

## 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.265<sup>(1)</sup> 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, HTTPS<sup>(2)</sup>, HTTP/2, TLS<sup>(2)</sup>, 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

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 (eay@cryptsoft.com).

## 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](https://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](https://onvif.org)

### Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, and video management software from Axis' partners available at [axis.com/vms](https://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 Shield<sup>(3)</sup>

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

### AXIS Object Analytics

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

Scenarios: line crossing, object in area, 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

3. Available for download

## 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 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)<sup>(4)</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS<sup>(4)</sup>, TLS v1.2/v1.3<sup>(4)</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

### Documentation

*AXIS OS Hardening Guide*

*Axis Vulnerability Management Policy*

*Axis Security Development Model*

AXIS OS Software Bill of Material (SBOM)

To download documents, go to [axis.com/support/cybersecurity/resources](https://axis.com/support/cybersecurity/resources)

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

## General

### Casing

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](https://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:** 112 g (0.25 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, mounting bracket

## Optional accessories

AXIS T8415 Wireless Installation Tool

AXIS Surveillance Cards

For more accessories, go to [axis.com/products/axis-p1275-mk-ii#accessories](https://axis.com/products/axis-p1275-mk-ii#accessories)

## System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator

Available at [axis.com](https://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](https://axis.com/warranty)

## Part numbers

Available at [axis.com/products/axis-p1275-mk-ii#part-numbers](https://axis.com/products/axis-p1275-mk-ii#part-numbers)

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

## 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](https://echa.europa.eu)

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### Materials

Renewable carbon-based plastic content: 13%

(recycled)

Screened for conflict minerals in accordance with OECD guidelines

To read more about sustainability at Axis, go to [axis.com/about-axis/sustainability](https://axis.com/about-axis/sustainability)

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### Environmental responsibility

[axis.com/environmental-responsibility](https://axis.com/environmental-responsibility)

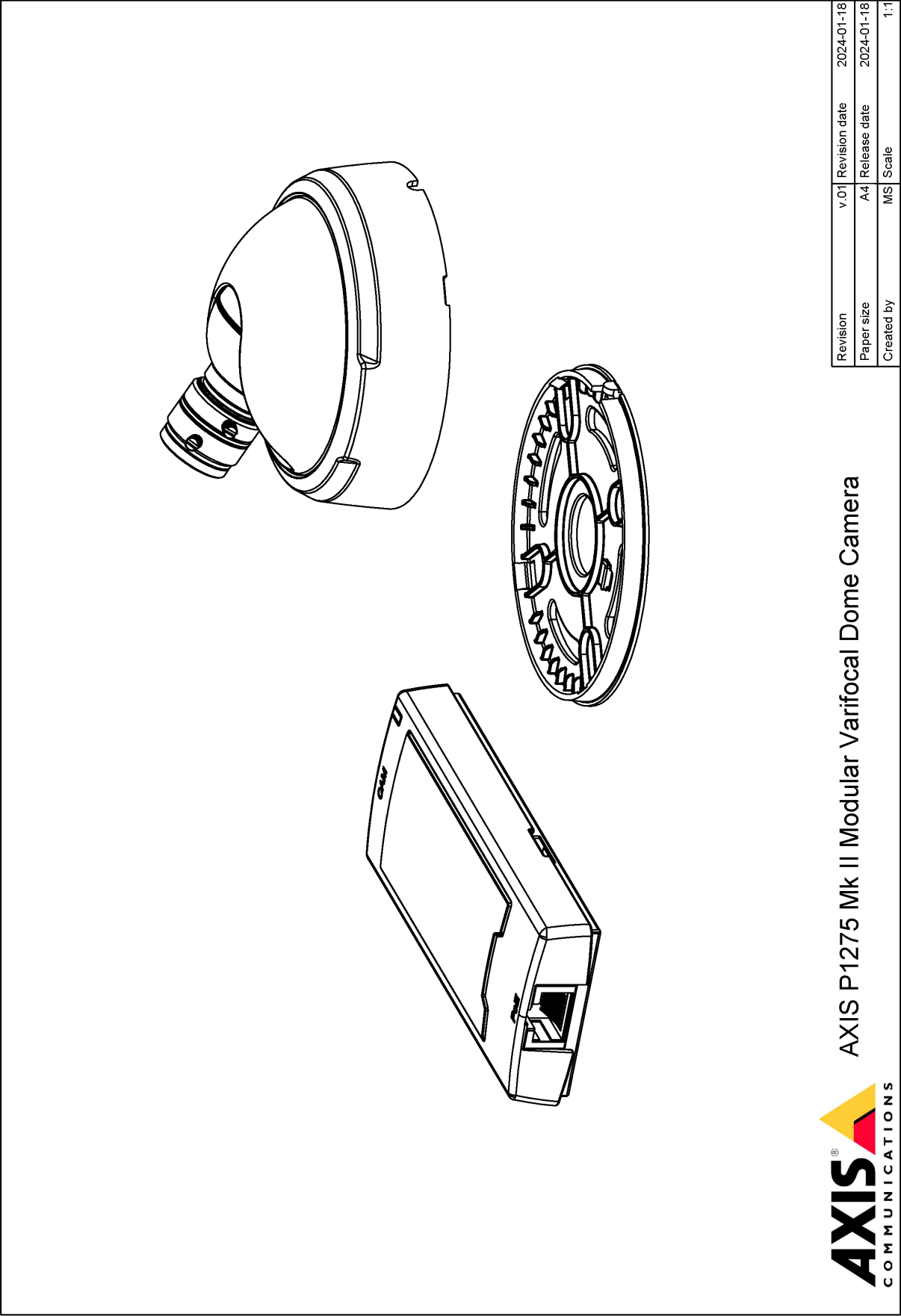
Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](https://unglobalcompact.org)

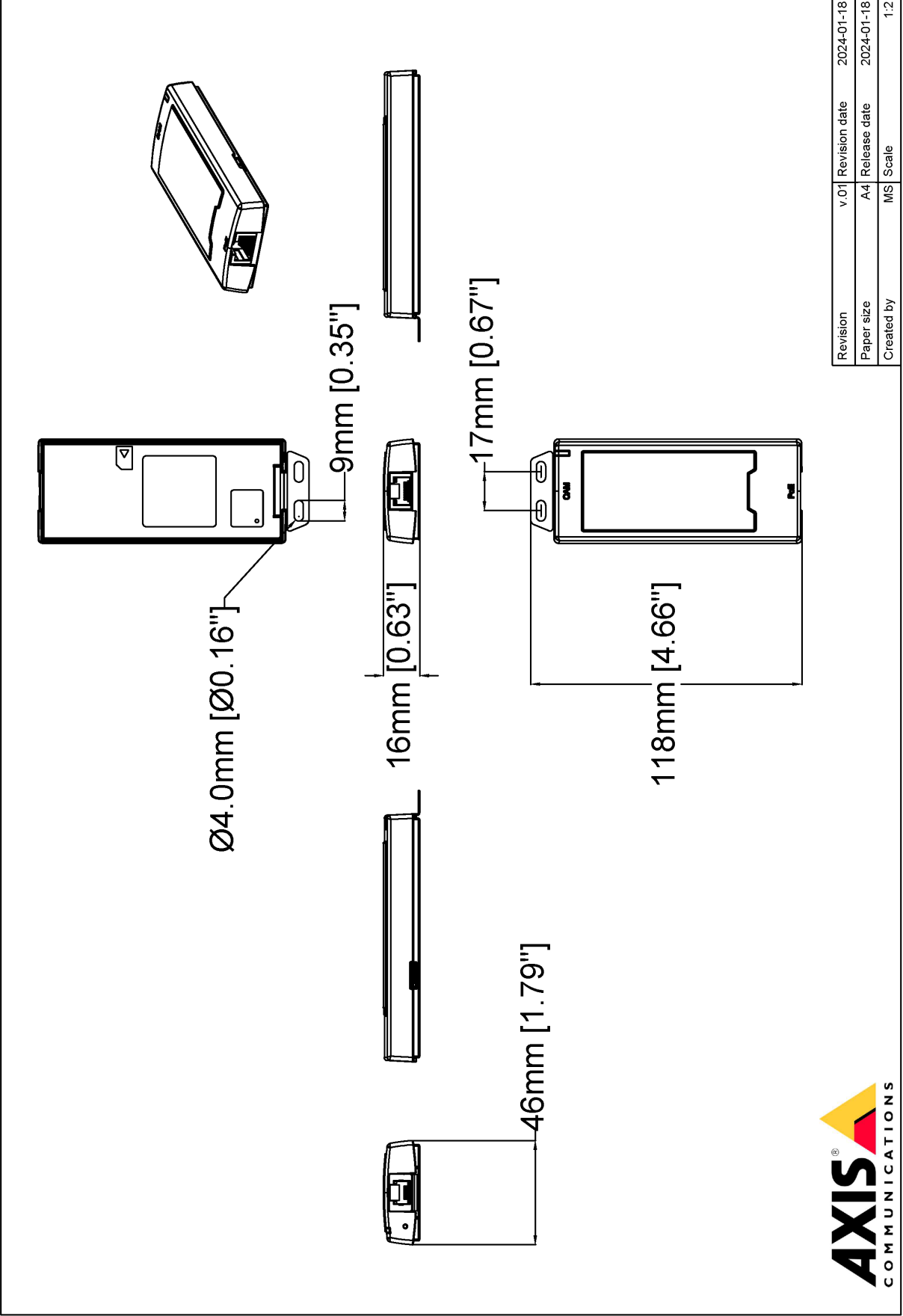
**Detect, Observe, Recognize, Identify (DORI)**

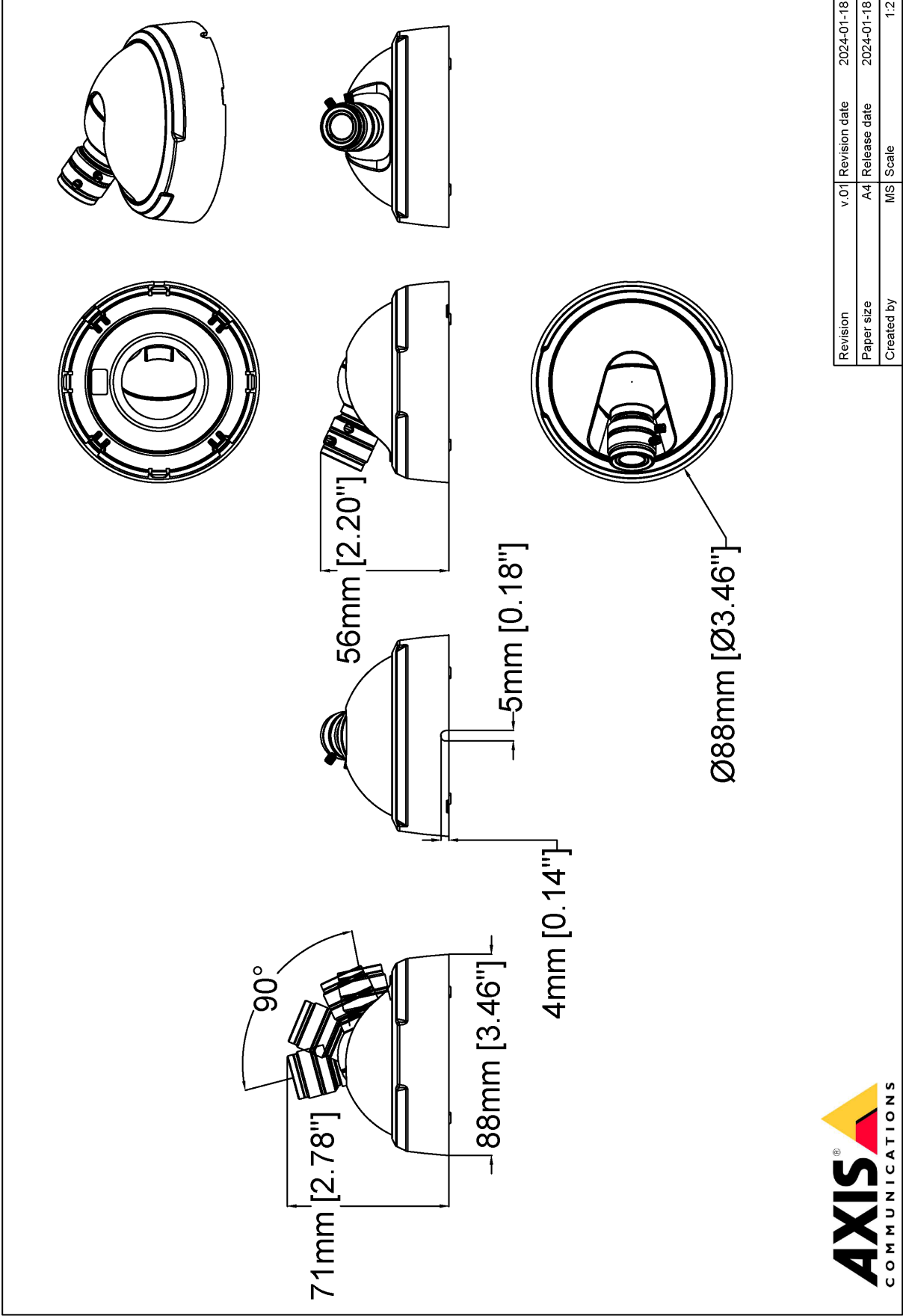
|           | DORI definition     | Distance (wide)   | Distance (tele)   |
|-----------|---------------------|-------------------|-------------------|
| Detect    | 25 px/m (8 px/ft)   | 43.7 m (143.3 ft) | 83.9 m (275.2 ft) |
| Observe   | 63 px/m (19 px/ft)  | 17.3 m (56.7 ft)  | 33.3 m (109.2 ft) |
| Recognize | 125 px/m (38 px/ft) | 8.7 m (28.5 ft)   | 16.8 m (55.1 ft)  |
| Identify  | 250 px/m (76 px/ft) | 4.4 m (14.4 ft)   | 8.4 m (27.6 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.

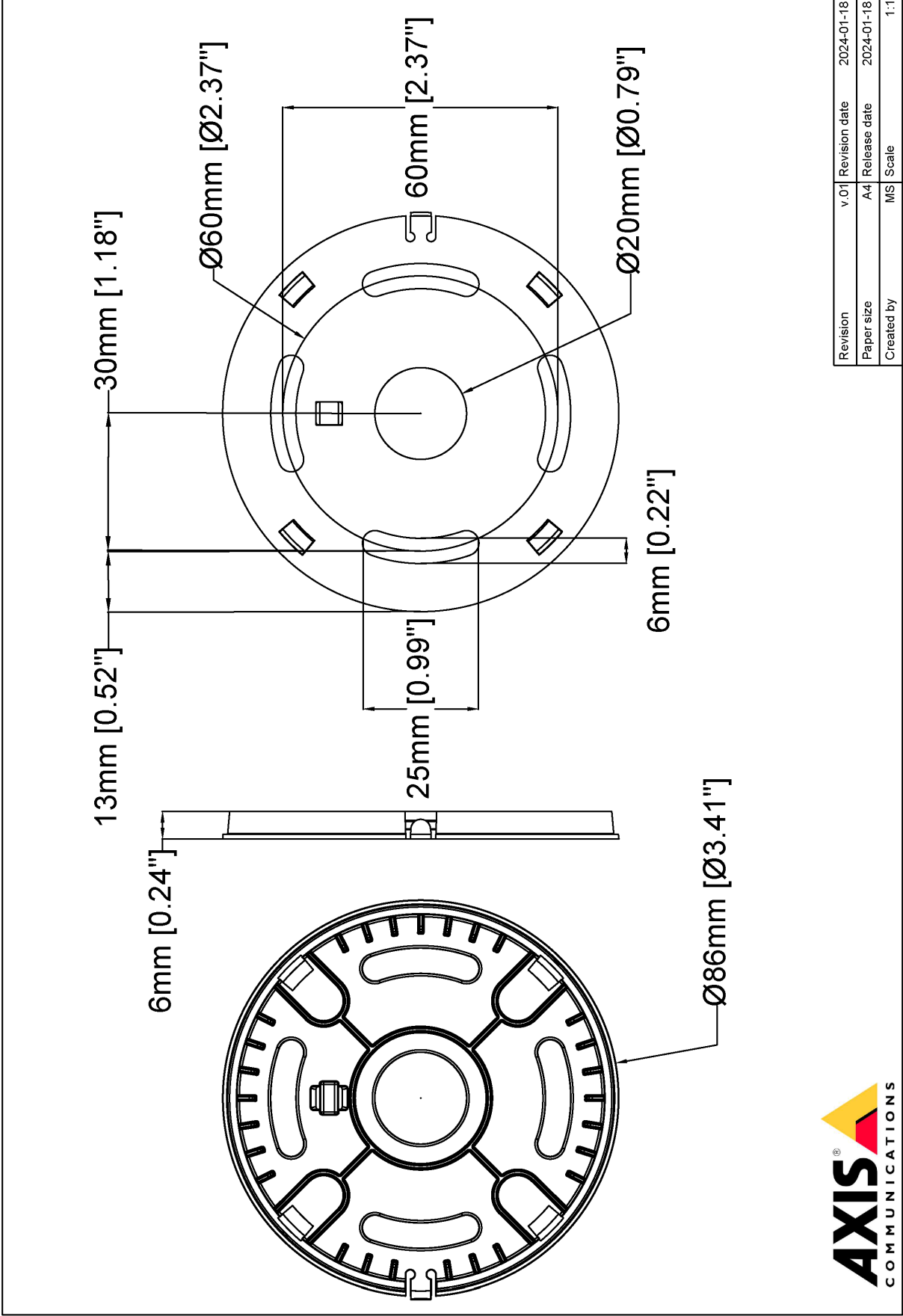
Dimension drawing







|            |      |               |            |
|------------|------|---------------|------------|
| Revision   | v.01 | Revision date | 2024-01-18 |
| Paper size | A4   | Release date  | 2024-01-18 |
| Created by | MS   | Scale         | 1:2        |



|            |      |               |            |
|------------|------|---------------|------------|
| 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](https://axis.com/solutions/edge-vault).

For more information, see [axis.com/glossary](https://axis.com/glossary)