AXIS M4308-PLE Panoramic Camera
12 MP outdoor-ready dome with audio capture

AXIS M4308-PLE is a discreet, outdoor-ready mini dome designed to blend seamlessly into any environment. With a 12 MP sensor and stereographic lens, it offers outstanding images and complete 360° panoramic overview. Thanks to Sharpdome 360, this panoramic camera delivers greater sharpness at the edges of the image. AXIS Object Analytics is included and a deep learning processing unit (DLP) enables unique opportunities to take advantage of analytics based on deep learning on the edge. It includes Axis Lightfinder and Axis Forensic WDR for true colors and great details in challenging light or near darkness. Plus, Axis OptimizedIR for surveillance in pitch darkness. Four built-in microphones and voice enhancer offers audio capture with great noise suppression.

> 12 MP sensor with 360° overview
> Stereographic lens and Sharpdome 360
> Lightfinder, Forensic WDR, OptimizedIR
> Support for analytics with deep learning
> 4 microphones with voice enhancer
**Camera**

**Image sensor**
1/1.7" progressive scan RGB CMOS

**Lens**
1.3 mm, F2.4
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: 0.19 lux at 50 IRE, F2.4
BWV: 0.04 lux at 50 IRE, F2.4
0 lux with IR illumination on

**Shutter speed**
1/22000 s to 1 s

**Camera angle adjustment**
Digital roll: ± 180°

**System on chip (SoC)**

**Model**
ARTPEC-7

**Memory**
2 GB RAM, 1 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
Motion JPEG

**Resolution**
Overview: 2880x2880 to 160x160
Panorama: 3840x2160 to 192x192
Double Panorama: 3584x2688 to 512x288
Quad view: 3584x2688 to 512x288
View area 1-4: 2048x1536 to 256x144
Corner right/left: 3200x1200 to 192x72
Double corner: 2560x1920 to 256x144

**Frame rate**
360° overview only, up to 2880x2880 without WDR: 25/30 fps @ 50/60 Hz
360° overview and dewarped views up to max resolution with WDR: up to 12.5/15 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
Controlable frame rate and bandwidth
VBR/ABR/MBR H.264/H.265

**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, corridor, corner and views, preset positions, guard tours

**Audio**

**Audio streaming**
One-way, simplex, mono or stereo. Voice enhancement

**Audio encoding**
LPCH 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**
4 built-in microphones (can be disabled), network speaker pairing

**Network**

**Security**
Password protection, IP address filtering, HTTPS encryption, IEEE 802.1x (EAP-TLS) network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, Axis Edge Vault with Axis device ID

**Supported protocols**
IPv6, USBv6, ICMPv4/ICMPv6, HTTP, HTTP5, HTTP2, SSL/TLS5, QoS Layer 3 DiffServ, FTP, SFTP, CIF5/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, SIP, LDGP, 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

**Support**
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 switch
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
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

**Data streaming**
Event data

**Built-in installation aids**
Pixel counter, digital roll, repositioning of quad views, digital PTZ of view areas, digital PT of panorama, corridor, corner and quad views

**Analytics**

**AXIS Object Analytics**
Object classes: humans, vehicles (types: cars, buses, trucks, bikes)
Trigger conditions: line crossing, object in area
Up to 10 scenarios
Metadata visualized with color-coded bounding boxes
Polygon include/exclude areas
Perspective configuration
ONVIF Motion Alarm event

**Applications**
Included
AXIS Object Analytics, AXIS Video Motion Detection, active tampering alarm, audio detection
Supported
AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard
Support for additional applications if the device is used with compatible accessories. For more information, contact your Axis partner.
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/escap

**General**

**Casing**
IP66-, NEMA 4X- and IK10-rated (IR window IK09)
Polycarbonate hard coated dome
Sharpdome 360
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 802.3at Type 2 Class 4
Typical 7.9 W, max 15.5 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**
OptimizedIR with with power-efficient, long-life 850 nm IR LEDs
Range of reach 15 m (#9 fl) 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 | Temperature: -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 | Temperature: -40 °C to 65 °C (-40 °F to 149 °F)  
|                       |Humidity 5–95% RH (non-condensing) |
| Dimensions | Height: 69 mm (2.7 in)  
|                       | ø 149 mm (5.8 in) |

**Weight** 850 g (1.9 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 T94T020 Pendant kit with weathershield  
AXIS Surveillance Cards  
AXIS TM380B-E Skin Cover Black  
AXIS Mounts & Cabinets  
AXIS TM3204 Recessed Mount  
AXIS TM3206 Plenum Recessed Mount  
For more accessories, see axis.com

**Video management software** AXIS Device Manager, AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms

**Languages** English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese

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

a. 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).

Environmental responsibility: axis.com/environmental-responsibility