

# AXIS M3057-PLR Mk II Dome Camera

6 MP panoramic onboard camera

Specifically designed for onboard surveillance, this ruggedized panoramic camera complies with transportation industry standards including EN 50155 and EN 45545-2. Featuring a 6 MP sensor, it delivers a complete 180° or 360° overview. This compact mini dome also offers dewarped views such as panorama, quad, corner, and corridor views directly from the camera. Including Lightfinder, Forensic WDR, and OptimizedIR it ensures great image quality under any light conditions. Furthermore, it includes built-in cybersecurity features to safeguard your system. For instance, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > **Complete 180° and 360° overview**
- > **Optimized for transportation industry**
- > **Forensic WDR, Lightfinder, OptimizedIR**
- > **Factory-focused with digital roll**
- > **Built-in cybersecurity features**



# AXIS M3057-PLR Mk II Dome Camera

## 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:  $\pm 180^\circ$

## 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  
Video streaming indicator

### 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, 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

## Network

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, SSL/TLS<sup>1</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP/RTSPS, TCP, UDP, IGMP, RTCP, IGMPv1/v2/v3, DHCPv4/v6, ARP, 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](http://axis.com)

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T specification at [onvif.org](http://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

Call: state, state change

Device status: above operating temperature, above or below operating temperature, below operating temperature, casing open, IP address removed, network lost, new IP address, storage failure, system ready, within operating temperature

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

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

MQTT subscribe

PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready

Scheduled and recurring: scheduled event

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

MQTT subscribe

### Event actions

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

Day-night mode

Guard tour

I/O

IR illumination

MQTT publish

Overlay text

Preset positions

Recordings

WDR mode

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

Notification: email, HTTP, HTTPS, TCP, SNMP trap messages

### 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, corner, corridor and quad views

## Analytics

### Applications

Included

AXIS Video Motion Detection, active tampering alarm

Supported

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, AXIS People Counter, AXIS Occupancy Estimator, AXIS Queue Monitor

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

## Approvals

### EMC

ECE R10 rev.06 (E approval), EN 50498, EN 55035, EN 55032 Class A, EN 50121-4, EN 50121-3-2, 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

**Railway:** IEC 62236-4

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

## Safety

CAN/CSA C22.2 No. 62368-1 ed. 3,  
CAN/CSA-C22.2 No. 60950-22, EN 45545-2, IEC 62471  
risk group exempt, IEC/EN/UL 62368-1 ed. 3,  
UN ECE R118, IS 13252, NFPA 130

## Environment

EN 50155:2017 OT2/ST2 (2007: Class TX),  
IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14,  
IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-64,  
IEC 60721-3-5 Class 5M3 (vibration and shock),  
IEC/EN 61373 Category 1 Class B, IEC/EN 62262 IK10,  
IEC/EN 60529 IP66, IEC/EN 60529 IP67,  
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

## 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), AES-XTS-Plain64 256bit  
SD card encryption

**Hardware:** Axis Edge Vault cybersecurity platform  
Secure keystore: secure element (CC EAL 6+, FIPS 140-3  
Level 3)  
Axis device ID, signed video, secure boot

### Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>,  
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,  
HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</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

IP66/67-, 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 8.2 W, max 12.2 W

### Connectors

M12: female, rugged, D-coded with rotatable coupling  
nut

### 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](https://axis.com)

### Operating conditions

-40 °C to 55 °C (-40 °F to 131 °F)

Start-up temperature: -30 °C to 50 °C (-22 °F to  
122 °F)

Maximum temperature (intermittent): 70 °C (158 °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)

### Dimensions

Height: 66 mm (2.5 in)

ø 149 mm (5.8 in)

2. 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)).

**Weight**

760 g (1.68 lb)

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**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

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**Optional accessories**

AXIS M30 Skin Cover A Black

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

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**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](https://axis.com/vms).

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**Languages**

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

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**Warranty**

5-year warranty, see [axis.com/warranty](https://axis.com/warranty)