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: ± 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
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[1], HTTP/2, SSL/TLS[1], 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*
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

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*

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

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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).*

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 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
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)[2],
IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,
HTTPS/HSTS[2], TLS v1.2/v1.3[2], 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

IP66/67-, 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

OptimizedIR 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 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)

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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).*

Weight
760 g (1.68 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 M30 Skin Cover A Black
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, Dutch, Czech, Swedish,
Finnish, Turkish, Thai, Vietnamese

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

AXIS®
COMMUNICATIONS