



AXIS M5000 PTZ Camera

Situational awareness camera with build-in PTZ

AXIS M5000 PTZ features three 5 MP sensors and one PTZ camera with 10x optical zoom for total situational awareness of indoor areas up to 400 m² (4300 ft²). With everything displayed on one monitor, you can move from overview to detailed views in a single click. It features autofocus capabilities and day/night functionality. This cost-effective camera offers the benefits of four cameras while installing just one camera. Furthermore, edge storage lets you record directly to an onboard memory card.

- > 3x 5 MP sensors for situational awareness
- > Total overview, zoomed-in details
- > Covers indoor areas up to 400 m^2 (4300 ft^2)
- > 10x optical zoom with HDTV 1080p
- > Autofocus





AXIS M5000 PTZ Camera

Camera

Image sensor

PTZ camera: 1/2.8" progressive scan RGB CMOS Overview cameras: 1/2.8" progressive scan RGB CMOS

Lens

PTZ camera:

Varifocal, 4.7–47 mm, F1.6–3.0 Horizontal field of view: 61.8°–6.7° Vertical field of view: 36.3°–3.8° Autofocus, auto-iris, P-Iris control **Overview cameras:** Focal length 2.39 mm, F2.0 Horizontal field of view: 360° Vertical field of view: 93°

Day and night

PTZ camera: Automatically removable infrared-cut filter

Minimum illumination

PTZ camera: Color: 0.09 lux at 30 IRE F1.6 B/W: 0.01 lux at 30 IRE F1.6 Color: 0.1 lux at 50 IRE F1.6 B/W: 0.01 lux at 50 IRE F1.6 Overview cameras: Color: 0.08 lux at 30 IRE F2.0 B/W: 0.03 lux at 30 IRE F2.0 Color: 0.4 lux at 50 IRE F2.0 B/W: 0.03 lux at 50 IRE F2.0

Shutter speed

PTZ camera: 1/66500 s to 2 s Overview cameras: 1/50000 s to 2 s

Pan/Tilt/Zoom

PTZ camera: Pan: 360° with autoflip, 1.8°–150°/s Tilt: 180°,1.8°–150°/s 10x optical zoom, 12x digital zoom, total 120x zoom 100 preset positions, limited guard tour, control queue, on-screen directional indicator, E-flip, click-in-image

System on chip (SoC)

Model ARTPEC-7

Memory

2048 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

PTZ camera: 1920x1080 to 320x180 Overview cameras: 2592x1944 to 320x180

Frame rate

PTZ camera: Up to 25/30 fps with power line frequency 50/60 Hz Overview cameras: Up to 12 fps with power line frequency 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 Streaming modes: unicast and multicast¹

Image settings

Saturation, contrast, brightness, sharpness, WDR – forensic capture, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, compression, text and image overlay, polygon privacy masks, image freeze on PTZ, local contrast, max shutter, max gain, noise/motion priority, aperture lock, exposure level

Scene profiles: indoor, forensic

Signal-to-noise ratio >55 dB

Audio streaming

Two-way, full duplex

Audio encoding

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

Audio input/output

External microphone input or line input, line output, automatic gain control

Network

Security

HTTPS² encryption, IEEE 802.1x (EAP-TLS) network access control, user access log, centralized certificate management, signed video, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified)

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, NTS, RTSP, RTCP, RTP, SRTP/ RTSPS, TCP, UDP, IGMPv1/v2/v3, 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[®] 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 <code>onvif.org</code>

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

Focus recall area Video streaming indicator Privacy masks Day/night shift

Event conditions

Audio: audio clip playing Device status: above operating temperature, above or below operating temperature, below operating temperature, 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: 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

Event actions

Audio clips: play, play while the rule is active, stop playing Guard tours: Run while the rule is active, start MQTT publish Notification: email, HTTP, HTTPS, TCP and SNMP trap Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Day-night mode, overlay text, preset positions, WDR mode

Data streaming

Event data

Built-in installation aids Pixel counter

Analytics

Applications

Included

AXIS Loitering Guard AXIS Video Motion Detection, audio detection, shock detection, advanced gatekeeper 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).

Approvals

EMC

EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2 USA: FCC Part 15 Subpart B Class A Canada: ICES-3(A)/NMB-3(A) Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Korea: KS C 9832 Class A, KS C 9835

Safety

CAN/CSA C22.2 No. 62368-1 , 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 IP51

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 Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot

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

IP51-rated Repaintable plastic casing, polycarbonate (PC) dome

Sustainability

PVC free, BFR/CFR free

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Typical 7.4 W, max 13.0 W 20–28 V DC, typical 6.5 W, max 11.9 W (PoE midspan and power supply not included)

Connectors

RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE DC input terminal block Audio: mic/line in, line out terminal block

Storage

Support for SD/SDHC/SDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *axis.com*

Operating conditions

0 °C to 40 °C (32 °F to 104 °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: 138 mm (5.4 in), ø 247 mm (9.7 in)

Weight

1.95 kg (4.3 lb)

Included accessories

Installation Guide, Windows[®] decoder 1-user license, drill hole template, terminal block connectors, connector guard, bayonette screws

Optional accessories

AXIS TM5601 Conduit Back Box AXIS TM5801 Black Dome For more accessories, see *axis.com*

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).

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

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