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 m^2 (4300 ft^2). 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

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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
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

Audio

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	HTTPS[a] encryption, IEEE 802.1x (EAP-TLS)[a] 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, HTTPS[a], HTTP/2, TLS[a], 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 *onvif.org*
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*

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication, password protection, 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)[a], IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
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)
Approvals	**EMC** EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), RCM AS/NZS CISPR 32 Class A, 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
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*
Video management software	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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
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).*