

AXIS M5000-G PTZ Camera

Situational awareness camera with build-in PTZ and Z-Wave™

AXIS M5000-G PTZ Camera 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 offers wireless I/O connectivity with Z-Wave Plus[®] devices to communicate with up to six devices in a system setup for instance monitor temperatures in freezers or turn lights on/off. With AXIS M5000-G, you get the benefits of four cameras while installing just one camera.

- > [3x 5 MP sensors for situational awareness](#)
- > [Total overview, zoomed-in details](#)
- > [Covers indoor areas up to 400 m² \(4300 ft²\)](#)
- > [10x optical zoom with HDTV 1080p](#)
- > [Z-Wave for smart home devices](#)



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Models	AXIS M5000-G EU AXIS M5000-G JP AXIS M5000-G US	Audio encoding	24bit 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
Camera		Audio input/output	External microphone input or line input, line output, automatic gain control
Image sensor	PTZ camera: 1/2.8" progressive scan RGB CMOS Overview cameras: 1/2.8" progressive scan RGB CMOS	Network	
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°	Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a network access control, user access log, centralized certificate management
Day and night	PTZ camera: Automatically removable infrared-cut filter	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), Z-Wave Plus [™] v2
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	System integration	
Shutter speed	PTZ camera: 1/66500 s to 2 s Overview cameras: 1/50000 s to 2 s	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
Pan/Tilt/Zoom	PTZ camera: Pan: 360° with auto-pan, 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-pan, click-in-image	Onscreen controls	Focus recall area Video streaming indicator Privacy masks Day/night shift
System on chip (SoC)		Event conditions	Audio: audio clip playing Device status: above 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
Model	ARTPEC-7	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
Memory	2048 MB RAM, 512 MB Flash	Data streaming	Event data
Video		Built-in installation aids	Pixel counter
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	Analytics	
Resolution	PTZ camera: 1920x1080 to 320x180 Overview cameras: 2592x1944 to 320x180	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
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	Cybersecurity	
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	Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+ certified hardware protection of cryptographic operations and keys)
Image settings	Saturation, contrast, brightness, sharpness, WDR – forensic capture, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, compression, Z-Wave overlay, 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	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
Audio		Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM)
Audio streaming	Two-way, full duplex		

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 7.6 W, max 13.4 W 20–28 V DC, typical 6.6 W, max 12.1 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, VCCI Class A, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A) Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1

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

Radio

EN 62311, EN 300220-2, EN 301489-1, EN 301489-3, MIC,
FCC Part 15 Subpart C, RSS-210

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
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).*