

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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Variants	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	
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 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	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, 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
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	Approvals	
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	EMC	EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2 Japan: VCCI Class A USA: FCC Part 15 Subpart B Class A Canada: ICES-3(A)/NMB-3(A)
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	Safety	CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1
Audio		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
Audio streaming	Two-way, full duplex	Wireless	EN 62311, EN 300220-2, EN 301489-1, EN 301489-3, MIC, FCC Part 15 Subpart C, RSS-210
		Network	NIST SP500-267

Cybersecurity	ETSI EN 303 645		Audio: mic/line in, line out terminal block
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, 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		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
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall		Operating conditions 0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)
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) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity		Storage conditions -40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
General			Dimensions Height: 138 mm (5.4 in), ø 247 mm (9.7 in)
Casing	IP51-rated Repaintable plastic casing, polycarbonate (PC) dome		Weight 1.95 kg (4.3 lb)
Sustainability	PVC free, BFR/CFR free		Included accessories Installation Guide, Windows® decoder 1-user license, drill hole template, terminal block connectors, connector guard, bayonette screws
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)		Optional accessories AXIS TM5601 Conduit Back Box AXIS TM5801 Black Dome For more accessories, see axis.com
Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE DC input terminal block		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](https://www.openssl.org)), and cryptographic software written by Eric Young (ey@cryptsoft.com).