

# 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<sup>2</sup> (4300 ft<sup>2</sup>). 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<sup>2</sup> (4300 ft<sup>2</sup>)**
- > **10x optical zoom with HDTV 1080p**
- > **Autofocus**



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<b>Camera</b>		<b>Network</b>	
<b>Image sensor</b>	PTZ camera: 1/2.8" progressive scan RGB CMOS Overview cameras: 1/2.8" progressive scan RGB CMOS	<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot, signed video, Axis Edge Vault, Axis device ID, secure keystore (CC EAL4 certified)
<b>Lens</b>	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°	<b>Network protocols</b>	IPv4, IPv6, USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)
<b>Day and night</b>	PTZ camera: Automatically removable infrared-cut filter	<b>System integration</b>	
<b>Minimum illumination</b>	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	<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> One-click cloud connection ONVIF <sup>®</sup> Profile G, ONVIF <sup>®</sup> Profile M, ONVIF <sup>®</sup> Profile S, and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>
<b>Shutter speed</b>	PTZ camera: 1/66500 s to 2 s Overview cameras: 1/50000 s to 2 s	<b>Onscreen controls</b>	Focus recall area Video streaming indicator Privacy masks Day/night shift
<b>Pan/Tilt/Zoom</b>	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	<b>Event conditions</b>	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
<b>System on chip (SoC)</b>		<b>Event actions</b>	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
<b>Model</b>	ARTPEC-7	<b>Data streaming</b>	Event data
<b>Memory</b>	2048 MB RAM, 512 MB Flash	<b>Built-in installation aids</b>	Pixel counter
<b>Video</b>		<b>Analytics</b>	
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	<b>Applications</b>	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 <a href="http://axis.com/acap">axis.com/acap</a>
<b>Resolution</b>	PTZ camera: 1920x1080 to 320x180 Overview cameras: 2592x1944 to 320x180	<b>General</b>	
<b>Frame rate</b>	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	<b>Casing</b>	IP51-rated Repaintable plastic casing, polycarbonate (PC) dome
<b>Video streaming</b>	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 Video streaming indicator	<b>Sustainability</b>	PVC free, BFR/CFR free
<b>Image settings</b>	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	<b>Power</b>	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)
<b>Audio</b>		<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE DC input terminal block Audio: mic/line in, line out terminal block
<b>Audio streaming</b>	Two-way, full duplex	<b>Storage</b>	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 <a href="http://axis.com">axis.com</a>
<b>Audio encoding</b>	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	<b>Operating conditions</b>	0 °C to 40 °C (32 °F to 104 °F) Humidity 10–85% RH (non-condensing)
<b>Audio input/output</b>	External microphone input or line input, line output, automatic gain control		

<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)	<b>Optional accessories</b>	AXIS TM5601 Conduit Back Box AXIS TM5801 Black Dome For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Approvals</b>	<b>EMC</b> 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 <b>Safety</b> CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, IS 13252 <b>Environment</b> 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 <b>Network</b> NIST SP500-267	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
<b>Dimensions</b>	Height: 138 mm (5.4 in), ø 247 mm (9.7 in)	<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
<b>Weight</b>	1.95 kg (4.3 lb)	<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
<b>Included accessories</b>	Installation Guide, Windows® decoder 1-user license, drill hole template, terminal block connectors, connector guard, bayonette screws	<p>a. <i>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).</i></p> <p>Environmental responsibility: <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a></p>	