

# AXIS XPQ1785 Explosion-Protected PTZ Camera

Globally certified explosion-protected positioning camera

AXIS XPQ1785 is a robust, stainless steel (316L) PTZ camera globally certified for use in potentially combustible environments according to Class I/II/III Div 1 and Zone 1,21 (NEC, CEC, IECEx, ATEX, and more). The built-in smoke alert analytic monitors for signs of smoke or fire. The camera offers total situational awareness with 360° continuous pan and +/- 90° tilt, both at up to 200°/sec. Axis Zipstream provides exceptional savings on bandwidth and storage requirements without compromising image quality. Ease of installation is supported by a compact and low-weight design, with both RJ45 and SFP for fiber or coax and 100–240 V AC power input.

- > [Worldwide hazardous area certifications](#)
- > [Smoke alert analytics](#)
- > [Zipstream and Lightfinder](#)
- > [HDTV 1080p with 32x optical zoom](#)
- > [-60 °C to 60 °C \(-76 °F to 140 °F\)](#)



# AXIS XPQ1785 Explosion-Protected PTZ Camera

<b>Camera</b>		<b>Event actions</b>	Day-night mode, defog, guard tours, overlay text, preset positions, SNMP trap messages, status LED, WDR mode MQTT: publish Notification: email, HTTP, HTTPS and TCP Record video: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
<b>Image sensor</b>	1/2.8" progressive scan RGB CMOS	<b>Data streaming</b>	Event data
<b>Lens</b>	4.3–137 mm, F1.4–4.0 Horizontal field of view: 60°–2.3° Vertical field of view: 39°–1.3° Autofocus	<b>Built-in installation aids</b>	Pixel counter
<b>Minimum illumination</b>	Color: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4	<b>Analytics</b>	
<b>Shutter speed</b>	1/66500 s to 1 s	<b>Applications</b>	<b>Included</b> Smoke alert, AXIS Video Motion Detection, AXIS Fence Guard, AXIS Loitering Guard, AXIS Motion Guard, active tampering alarm, gatekeeper <b>Supported</b> AXIS Perimeter Defender, AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>
<b>Pan/Tilt/Zoom</b>	Pan: 360° endless, 0.6 – 200°/s Tilt: ±90°, 0.6 – 200°/s 32x optical zoom and 12x digital zoom, total 384x zoom 100 preset positions, preset accuracy ±0.05°, Guard Tour, Control queue	<b>General</b>	
<b>System on chip (SoC)</b>		<b>Casing</b>	IP66-, IP67- and IP68-rated, electropolished ASTM 316L (EN 1.4404) stainless steel casing for maximum corrosion protection Wiper included
<b>Model</b>	ARTPEC-6	<b>Power</b>	Max consumption: 150 W Power input: 100–240 V AC
<b>Memory</b>	1024 MB RAM, 512 MB Flash	<b>Connectors</b>	Two M25x1.5 cable entries 3-pole connector for power, 0.2 – 3.0 mm <sup>2</sup> (24 – 12 AWG) 2-pole connector for 48 V DC (max 14.4 W) AUX out, 0.2 – 3.0 mm <sup>2</sup> (24 – 12 AWG) RJ45 10BASE-T/100BASE-TX SFP cage for alternative network connection
<b>Video</b>		<b>Storage</b>	Pre-installed AXIS Surveillance microSDXC Card 128 GB Support for SD card encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG	<b>Operating conditions</b>	–60 °C to 60 °C (–76 °F to 140 °F) Start-up temperature: –40 °C Humidity 10–100% RH (condensing)
<b>Resolution</b>	1920x1080 HDTV 1080p to 160x90 Maximum pixel density with 32x optical zoom: 25 m (82 ft): 1912 px/m 50 m (164 ft): 956 px/m 250 m (820 ft): 191 px/m	<b>Storage conditions</b>	–40 °C to 65 °C (–40 °F to 149 °F) Humidity 0–98% RH (non-condensing)
<b>Frame rate</b>	With WDR: Up to 25/30 fps (50/60 Hz) in all resolutions Without WDR: Up to 50/60 fps (50/60 Hz) in all resolutions	<b>Approvals</b>	EMC EN/IEC 55032 Class A, EN/IEC 61000–3–2, EN/IEC 61000–3–3, EN/IEC 61000–6–1, EN/IEC 61000–6–2, EN/IEC 55035, FCC Part 15 Subpart B Class A, ICES–3(A)/NMB–3(A), RCM AS/NZS CISPR 32 Class A <b>Environment</b> IEC/EN 60529 IP66, IP67, IP68 IEC 60068–2–6, IEC 60068–2–27, IEC 60068–2–64 EN/IEC 62262 IK10 (IK08 front glass), UL 50E/CSA C22.2 No 94.2 Type 4X <b>Safety</b> EN/IEC 62368–1, UL 62368–1, CSA C22.2 No. 62368–1 <b>Explosion</b> IEC/EN 60079–0, IEC/EN 60079–1, IEC/EN 60079–31, UL 60079–0, UL 60079–1, UL 60079–31, CSA C22.2 No. 60079–0, CSA C22.2 No. 60079–1, CSA C22.2 No. 60079–31 CSA C22.2 No. 25, CSA C22.2 No. 30, CSA C22.2 No 213, UL 1203, UL121201
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264	<b>Certifications</b>	Type P21 ATEX: I M2 Ex db I Mb II 2 G Ex db IIC T5 Gb II 2 D Ex tb IIIC T100°C Db Certificate: ExVeritas 20ATEX0651X IECEx: Ex db I Mb Ex db IIC T5 Gb Ex tb IIIC T100°C Db Certificate: IECEx EXV 20.0017X cMETus: Class I Div 1 Groups B,C,D T5 Class II Div 1 Groups E,F,G T5
<b>Image settings</b>	Saturation, contrast, brightness, sharpness, Forensic WDR, defogging, white balance, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, text and image overlay, dynamic text and image overlay Rotation: 0°, 180° Scene profiles: forensic, vivid, traffic overview, backlit entrance		
<b>Network</b>			
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X <sup>a</sup> network access control, digest authentication, user access log, centralized certificate management, signed firmware, brute force delay protection		
<b>Supported 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, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		
<b>System integration</b>			
<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 S, and ONVIF <sup>®</sup> Profile T, specification at <a href="http://onvif.org">onvif.org</a>		
<b>Event conditions</b>	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: schedule Video: average bitrate degradation, day-night mode, live stream open, tampering		

	Class I Zone 1 AEx db IIC Gb Zone 21 AEx tb IIIC Certificate: MET E115198
	PESO, EAC Ex, KCs, UKCA, INMETRO pending
<b>Dimensions</b>	240 x 301 x 372 mm (9.45 x 11.85 x 14.63 in)
<b>Weight</b>	23 kg (50.7 lb)
<b>Included accessories</b>	Washer nozzle, M25 to ¾" NPT adapters Connector kit, installation kit
<b>Optional accessories</b>	AXIS TQ1301-E Pole Mount 50-150 mm (material: stainless steel, weight: 5.3 kg, dimensions: 190 x 234 x 250 mm, maximum load: 150 kg) AXIS TQ1001-E Wall Mount (material: stainless steel, weight: 3.8 kg, dimensions: 170 x 150 x 350 mm, maximum load: 150 kg) AXIS TQ1301-E Pole Mount need to be combined with AXIS TQ1001-E Wall Mount.

For more accessories, see [axis.com](http://axis.com)

<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>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>

- 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).*

Environmental responsibility:

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)