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

Camera

Image sensor	1/2.8" progressive scan RGB CMOS
Lens	4.3–137 mm, F1.4–4.0 Horizontal field of view: 60°–2.3° Vertical field of view: 39°–1.3° Autofocus
Minimum illumination	Color: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4
Shutter speed	1/66500 s to 1 s
Pan/Tilt/Zoom	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

System on chip (SoC)

Model	ARTPEC-6
Memory	1024 MB RAM, 512 MB Flash

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG
Resolution	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
Frame rate	**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
Video streaming	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
Image settings	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

Network

Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, 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, RTCP, ICMP, 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/developer-community*. One-Click cloud connection ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org*
Video management systems	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at *axis.com/vms*.
Event conditions	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
Event actions	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
Data streaming	Event data
Built-in installation aids	Pixel counter

Analytics

Applications	**Included** Smoke alert, AXIS Video Motion Detection, AXIS Fence Guard, AXIS Loitering Guard, AXIS Motion Guard, active tampering alarm, gatekeeper **Supported** AXIS Perimeter Defender, AXIS Cross Line Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

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
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* AXIS OS Software Bill of Material (SBOM) 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	IP66-, IP67- and IP68-rated, electropolished ASTM 316L (EN 1.4404) stainless steel casing for maximum corrosion protection Wiper included
Power	Max consumption: 150 W Power input: 100–240 V AC
Connectors	Two M25x1.5 cable entries 3-pole connector for power, 0.2 - 3.0 mm² (24 - 12 AWG) 2-pole connector for 48 V DC (max 14.4 W) AUX out, 0.2 - 3.0 mm² (24 - 12 AWG) RJ45 10BASE-T/100BASE-TX SFP cage for alternative network connection
Storage	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 *axis.com*
Operating conditions	-60 °C to 60 °C (-76 °F to 140 °F) Start-up temperature: -40 °C Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 0-98% RH (non-condensing)
Approvals	**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 **Environment** 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 **Safety** EN/IEC 62368-1, UL 62368-1, CSA C22.2 No. 62368-1, IS 13252 **Explosion**

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

Certifications	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 Class I Zone 1 AEx db IIC Gb Zone 21 AEx tb IIIC **Certificate:** MET E115198 **INMETRO:** Ex db I Mb Ex db IIC T5 Gb Ex tb IIIC T100°C Db **Certificate:** CPEx 22.0478 X **IA:** Ex db I Mb Ex db IIC T5 Gb Ex tb IIIC T100°C Db **Certificate:** MASC MS/22-8127X **OSHA Taiwan:** Ex db I Mb Ex db IIC T5 Gb Ex tb IIIC T100°C Db **Certificate:** TD100043 **PESO:** Ex db IIC T5 Gb **Certificate:** 526087/4 **KCs:** Ex db IIC T5 Gb Ex tb IIIC T100°C Db **Certificate:** 23-KA4BO-0066X and 23-KA4BO-0067X EAC Ex, UKCA pending
Dimensions	240 x 301 x 372 mm (9.45 x 11.85 x 14.63 in)
Weight	23 kg (50.7 lb)
Included accessories	Washer nozzle, M25 to ¾" NPT adapters Connector kit, installation kit
Optional accessories	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*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see *axis.com/warranty*

Sustainability

Environmental responsibility	*axis.com/environmental-responsibility* Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

AXIS
COMMUNICATIONS