XP40-Q1785 Explosion-Protected PTZ Camera

First-class positioning camera for hazardous areas

XP40-Q1785 offers HDTV 1080p image quality up to 60 fps. It's certified (NEC, CEC, IECEx, ATEX and EAC Ex) for use in potentially combustible environments. Enclosed in a stainless steel housing with IP66/IP67 ratings, this positioning camera can withstand extreme temperatures from -60 °C to 60 °C (-76 °F to 140 °F). Featuring 32x optical zoom it provides continuous 360° pan and 180° tilt movement. This high-performance PTZ camera offers long-distance connections using fiber optics or Ethernet cabling. Plus, thanks to direct mains power input it's simple to install and there's no need for an external power supply.

> **HDTV 1080p with 32x optical zoom**

> **360° continuous pan and 180° tilt movement**

> **Forensic WDR, Lightfinder and EIS**

> **Ease of installation with fiber optics or Ethernet**

> **NEC, CEC, IECEx, ATEX and EAC Ex**

XP40-Q1785 Explosion-Protected PTZ Camera

Models	XP40-Q1785 -40 C XP40-Q1785 -60 C XP40-Q1785 -40 C 230 V XP40-Q1785 -60 C 230 V XP40-Q1785 -40 C 230 V FO XP40-Q1785 -60 C 230 V FO XP40-Q1785 UL -50 C XP40-Q1785 UL -50 C 110 V XP40-Q1785 UL -50 C 110 V FO
Certification part code	All models supplied in 1410 series explosion-protected housing with 2420 series pan-tilt motor. **XP40-Q1785 -40 C models, XP40-Q1785 -60 C models:** 1410-25/2420-01 **XP40-Q1785 UL -50 C models:** OXALIS-UL1410-25/UL2420-01 All models supplied in 1410/2420-series explosion-protected housing manufactured and certified by Eaton MEDC Ltd., UK.

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 time	1/66500 s to 1 s
Pan/Tilt/Zoom	Pan: 360° endless, 0.1 – 45°/s Tilt: ±90°, 0.1 – 24°/s 32x optical zoom and 12x digital zoom, total 384x zoom 100 preset positions, preset accuracy +/-0.1°, Guard Tour, Driver selection, Control queue

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, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 90°, 180°, 270° including Corridor Format Scene profiles: forensic, vivid, traffic overview, backlit entrance

Network

Security	Password protection, IP address filtering, HTTPS[a] encryption, IEEE 802.1X[a] network access control, digest authentication, user access log, centralized certificate management, signed firmware, brute force delay protection
Supported protocols	IPv4, IPv6 USGv6, HTTP, HTTPS[a], SSL/TLS[a], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, LLDP

System integration

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com* AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at *onvif.org*
Analytics	Included 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*
Event conditions	Analytics, edge storage events, virtual inputs through API, shock detection
Event actions	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS, TCP and SNMP trap
Data streaming	Event data
Built-in installation aids	Remote zoom, pixel counter, leveling assistant, autorotation

General

Casing	IP66- and IP67-rated, electropolished ASTM 316L (EN 1.4404) stainless steel casing for maximum corrosion protection
Memory	1024 MB RAM, 512 MB Flash
Power	Max consumption: 130 W, depending on model Power input: 24 V AC, 110 V AC, or 230 V AC, depending on model
Connectors	**XP40-Q1785 models:** One M25 conduit entry **XP40-Q1785 UL models:** Two 3/4" NPT conduit entries **All models:** Terminal connector for power and connection to optional washer tank. RJ45 for Ethernet or fiber-optic SFP-connector (FO models)
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	**XP40-Q1785 -40 C models:** -40 °C to 60 °C (-40 °F to 140 °F) **XP40-Q1785 -60 C models:** -60 °C to 40 °C (-76 °F to 104 °F) **XP40-Q1785 UL models:** -50 °C to 60 °C (-58 °F to 140 °F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Approvals	**EMC** EN 61000-6-2, EN 61000-6-4,FCC Part 15 Subpart B Class A **Environment** IEC/EN 60529 IP66, IP67, DNVGL-CG-0336 **Explosion** IEC/EN 60079-0, IEC/EN/GOST 60079-1, IEC/EN/GOST 60079-28, IEC/EN/GOST 60079-31, GOST 31610.0, GB3836.1, GB3836.2, CAN/CSA-C22.2 No. 60079-0, CAN/CSA-C22.2 No. 60079-1, CAN/CSA-C22.2 No. 60079-28, CSA-C22.2 No. 60065-03, CAN/CSA C22.2 No. 25, CAN/CSA C22.2 No. 30-M, UL 1203
Certifications	**ATEX:** II 2 G Ex db (op pr) IIC T4 Gb -60°C to 70°C Gb II 2 D Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** ITS16ATEX101021X **IECEx:** Ex db (op pr) IIC T4 -60°C to 70°C Gb Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** IECEx ITS 15.0068X **cLC CSA:** Ex d IIC T4 -60°C ≤ Ta ≤ +70°C **Certificate:** 11396-1S-CSA **EAC:** Ex db (op pr) IIC T4 Gb -60°C to 70°C Ex tb IIIC T135°C Db IP66/67 **Certificate:** TCRUCGB.ГБ04.В00587 **UL:** Class I, Division 1, Groups B, C, D, T4 -50°C to 70°C Class II, Division 1, Groups E, F, G, IP67 Class 1 Zone 1 A Ex d IIB + Hydrogen T4, **Certificate:** 20170721-E477542 **Optional certifications** **INMETRO:** Ex db (op pr) IIC T4 Gb -60°C to 70°C Gb Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** UL-BR 17.0063X **PESO:** Ex db (op pr) IIC T4 Gb -60°C to 70°C Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** P400546/1

	CNEX: Ex db (op pr) IIC T4 Gb -60°C to 70°C Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** 17.1245X **IA:** Ex db (op pr) IIC T4 Gb -60°C to 70°C Ex tb (op pr) IIIC T135°C Db IP66/67 **Certificate:** S-XPL/17.0244X **KCC:** Ex d IIC T4 -60°C to 70°C Ex tD A21 T135°C IP66/67 **Certificate:** 17-GA4BO-0351X, 17-GA4BO-0352X, 17-GA4BO-0355X, 17-GA4BO-0356X
Dimensions	475 x 512 x 480 mm (18 3/4 x 20 1/4 x 18 7/8 in)
Weight	53 kg (117 lb)
Included accessories	Sunshield, installation guide, Windows decoder 1-user license, AXIS Surveillance microSDXC™ Card 128 GB
Optional accessories	Ex Power Supply ATEX/IECEx, Ex Power Supply UL Ex Washer Tank Pressurized ATEX/IECEx, Ex Cable ATEX/IECEx/EAC in various lengths, Ex Wall Mount XP40

	Not all accessories are available for all certifications. 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, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, 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).*

Environmental responsibility:

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