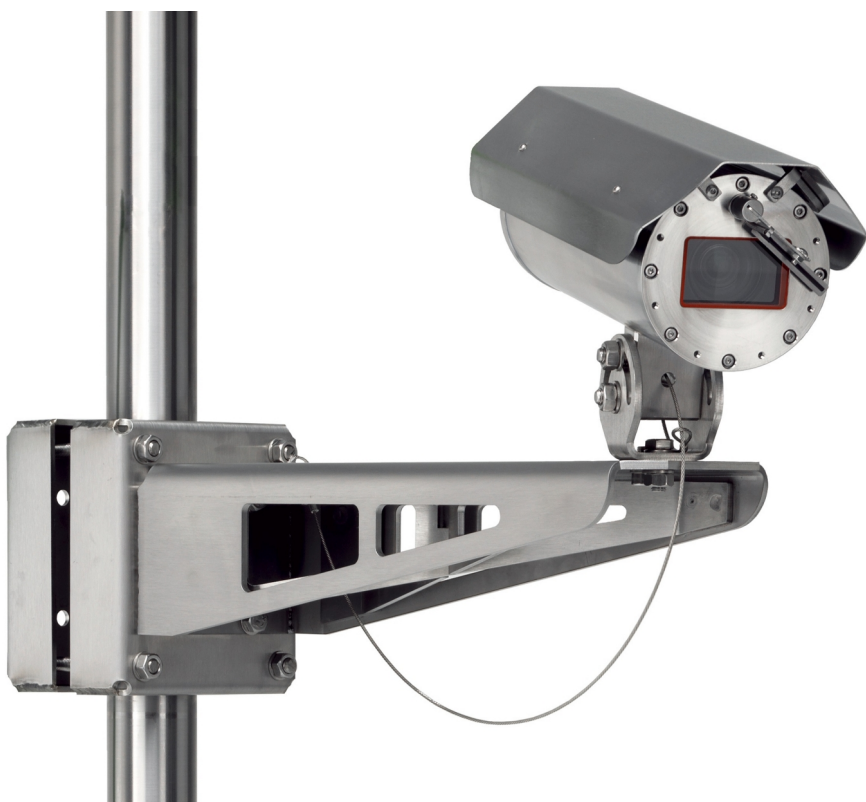# ExCam XF Q1785 Explosion-Protected Network Camera

First-class fixed box for hazardous areas

ExCam XF Q1785 Explosion-Protected Network Camera is an easy-to-install and easy-to-integrate camera. It delivers superb zoomed-in detail you expect from a top-of-the-line fixed box camera from Axis. The electronic image stabilization greatly improves video quality where the camera is subject to vibrations. The camera is adapted for explosion-prone applications with ATEX, IECEx, EAC Ex, and IA certifications. With PoE support for plug-and-play installation, ExCam XF Q1785 offers significant savings. Lightfinder and Forensic WDR technologies ensure perfect balance in scenes with strong variations in light, even in poor light. Suitable for onshore, offshore, marine, and heavy industrial environments.

> Certified for ATEX, IECEx, EAC Ex, and IA; Zones 1, 2, 21, and 22; Groups IIC and IIIC
> Cost-efficient installation with PoE
> HDTV 1080p with 32x optical zoom
> Lightfinder and WDR technologies
> Electronic image stabilization (EIS)

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HDTV NETWORK VIDEO

ExCam XF Q1785 Explosion-Protected Network Camera

Camera	
Image sensor	1/2.8" progressive scan RGB CMOS
Lens	Varifocal 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

Video	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	1920x1080 HDTV 1080p to 160x120 **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: Up to 120 dB depending on scene, 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
Pan/Tilt/Zoom	Digital ptz Zoom: 32x Optical, 12x Digital, Total 384x Preset positions

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, 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 *www.axis.com* AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF® Profile S and ONVIF® Profile G, 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 *www.axis.com/acap*
Event triggers	Analytics, supervised external input, 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	IP68-rated, ASTM 316L (EN 1.4404) stainless steel casing for maximum corrosion protection
	Wiper included Casing manufactured and certified by Samcon Prozessleittechnik GmbH, *www.samcon.eu*
Sustainability	PVC free
Memory	1024 MB RAM, 512 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 7.7 W, max 12.95 W 24 V DC, max 40 W 24 V DC is required for operating at temperatures below 0 °C (32 °F) and for wiper functionality
Connectors	EXTB-3 Junction Box ExCam: 10 terminal clamp UT 2.5 2 conductor terminal USLKG 5
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *www.axis.com*
Operating conditions	-60 °C to 60 °C (-76 °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 55032 Class A, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3, EN 62479, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11 **Environment** IEC/EN 60529 IP68 **Explosion** DIN EN/IEC 60079-0, DIN EN/IEC 60079-1, DIN EN/IEC 60079-7, DIN EN/IEC 60079-31, TR CU 012/2011, GOST R IEC 60079-0, GOST IEC 60079-1, GOST R IEC 60079-7, GOST R IEC 60079-31 **Network** NIST SP500-267
Certifications	**Camera:** **Model key:** T08-VA2.3.K3.BOR5-LL.H-005.A-T **ATEX:** II 2 G Ex db IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db **Certificate:** TÜV 18 ATEX 8218X **IECEx:** Ex db IIC T5 Gb, Ex tb IIIC T95°C Db **Certificate:** IECEx TUR 18.0023X **IA:** Ex db IIC T5 Gb, Ex tb IIIC T95°C Db **Certificate:** MASC MS/18-3256X **EAC Ex:** 1Ex db IIC T5 Gb, Ex tb IIIC T95°C Db **Certificate:** RU C-DE.АБ61.B.00381/19 **EXTB-3 Junction Box ExCam:** **Model key:** T12-3M20 **ATEX:** II 2 G Ex eb IIC T5 Gb, Ex II 2 D Ex tb IIIC T95°C Db IP66 **Certificate:** PTB 99 ATEX 3103 **IECEx:** Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66 **Certificate:** IECEx PTB 06.0026 **EAC Ex:** 1Ex e IIC T5 Gb X, Ex tb IIIC T95°C Db X **Certificate:** RU C-DE.AA71.B.00120 **CCOE:** Pending
Dimensions	396 x 135 x 171 mm (15 9/16 x 5 5/16 x 6 3/4 in)
Weight	11.1 kg (24.5 lb)
Included accessories	Installation Guide, Windows decoder 1-user license, Weathershield ExCam XF, ASKDP03-T Cable ExCam 5 m (16 ft), EXTB-3 Junction Box ExCam, AXIS Surveillance microSDXC Card 128 GB
Optional accessories	Wall Mount ExCam XF, Pole Mount ExCam XF Non-armored cables ExCam, 10, 25, 95 m (33, 82, 312 ft), Armored cables ExCam, 10, 25, 95 m (33, 82, 312 ft) Ex Connection Rail 4 PoE PS 24, Ex Connection Rail 8 PoE PS 24 For more accessories, see *www.axis.com*
Optional accessories	Wall mount Pole mount Pole top mount Composite cable tail Wooden crate For more accessories, see *axis.com*

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available on *www.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 *www.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:

axis.com/environmental-responsibility

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