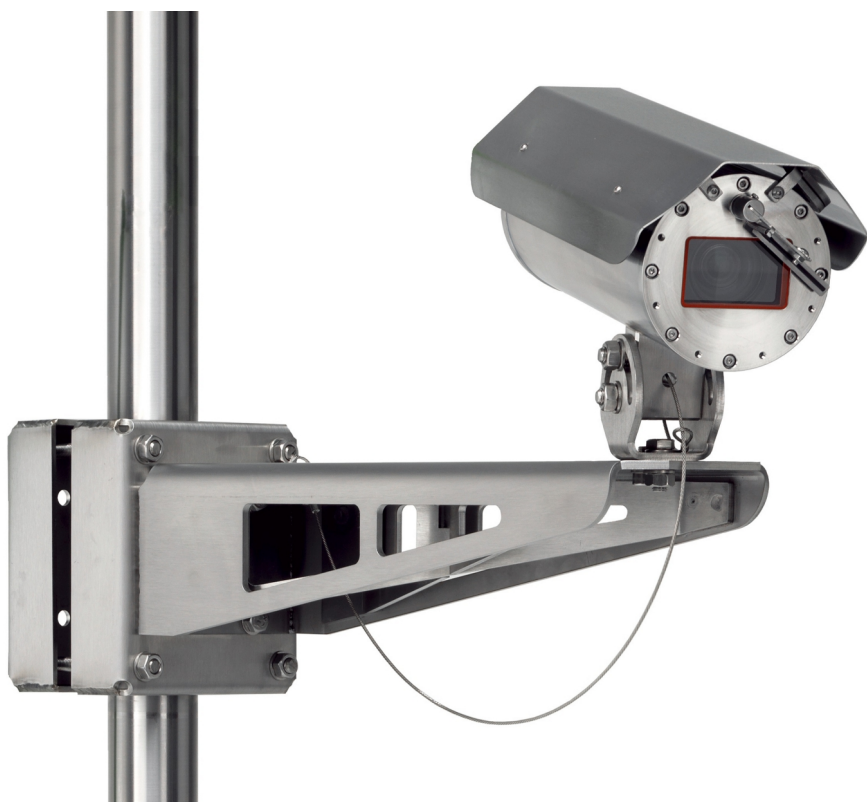


# ExCam XF Q1785 Explosion-Protected Network Camera

Zone-certified fixed camera with 32x zoom

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 \(EIS\)](#)



# ExCam XF Q1785 Explosion-Protected Network Camera

|                                   |   |  |
|-----------------------------------|---|--|
| <b>Camera</b>                     |   | AXIS Video Motion Detection, active tampering alarm, gatekeeper Supported<br>AXIS Perimeter Defender<br>Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a> |
| Image sensor                      | 1/2.8" progressive scan RGB CMOS  |  |
| Lens                              | Varifocal 4.3–137 mm, F1.4–4.0<br>Horizontal field of view: 60°–2.3°<br>Vertical field of view: 39°–1.3°<br>Autofocus   |  |
| Minimum illumination              | Color: 0.16 lux at 50 IRE F1.4<br>B/W: 0.03 lux at 50 IRE F1.4  |  |
| Shutter speed                     | 1/66500 s to 1 s  |  |
| <b>System on chip (SoC)</b>       |   |  |
| Model                             | ARTPEC-6  |  |
| Memory                            | 1024 MB RAM, 512 MB Flash   |  |
| <b>Video</b>                      |   |  |
| Video compression                 | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles<br>Motion JPEG  |  |
| Resolution                        | 1920x1080 HDTV 1080p (16:9) to 160x120 (4:3)<br>Maximum pixel density with 32x optical zoom:<br>25 m (82 ft): 1912 px/m<br>50 m (164 ft): 956 px/m<br>250 m (820 ft): 191 px/m  |  |
| Frame rate                        | With WDR: Up to 25/30 fps (50/60 Hz) in all resolutions<br>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<br>Axis Zipstream technology in H.264<br>Controllable frame rate and bandwidth<br>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<br>Rotation: auto, 0°, 90°, 180°, 270° including Corridor Format<br>Scene profiles: forensic, vivid, traffic overview, backlit entrance  |  |
| Pan/Tilt/Zoom                     | Digital ptz<br>Zoom: 32x Optical, 12x Digital, Total 384x<br>Preset positions   |  |
| <b>Network</b>                    |   |  |
| Security                          | 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, brute force delay protection   |  |
| Network protocols                 | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>a</sup> , 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, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)  |  |
| <b>System integration</b>         |   |  |
| Application Programming Interface | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a><br>One-click cloud connection<br>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>   |  |
| Event triggers                    | Analytics, supervised external input, edge storage events, virtual inputs through API, shock detection<br>MQTT subscribe  |  |
| Event actions                     | Pre- and post-alarm video buffering<br>File upload: FTP, SFTP, HTTP, HTTPS, network share and email<br>MQTT publish<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap  |  |
| Data streaming                    | Event data  |  |
| Built-in installation aids        | Remote zoom, pixel counter, leveling assistant, autorotation  |  |
| <b>Analytics</b>                  |   |  |
| Applications                      | Included<br>AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard   |  |
| <b>General</b>                    |   |  |
| Casing                            | IP68-rated, ASTM 316L (EN 1.4404) stainless steel casing for maximum corrosion protection<br>Wiper included<br>De-icing control <sup>b</sup><br>Casing manufactured and certified by Samcon Prozessleittechnik GmbH, <a href="http://samcon.eu">samcon.eu</a>   |  |
| Sustainability                    | PVC free  |  |
| Power                             | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3<br>Typical 7.7 W, max 12.95 W<br>24 V DC, max 40 W<br>24 V DC is required for operating at temperatures below 0 °C (32 °F) and for wiper functionality  |  |
| Connectors                        | EXTB-3 Junction Box ExCam:<br>10 terminal clamp UT 2.5<br>2 conductor terminal USLKG 5  |  |
| Storage                           | Pre-installed AXIS Surveillance microSDXC Card 128 GB<br>Support for SD card encryption (AES-XTS-Plain64 256bit)<br>Support for recording to network-attached storage (NAS)<br>For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>   |  |
| Operating conditions              | -60 °C to 60 °C (-76 °F to 140 °F)<br>Maximum temperature (intermittent): 75 °C (167 °F)<br>Humidity 10–100% RH (condensing)  |  |
| Storage conditions                | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5–95% RH (non-condensing)  |  |
| Approvals                         | EMC<br>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<br>Safety<br>IS 13252<br>Environment<br>IEC/EN 60529 IP68<br>Explosion<br>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<br>Network<br>NIST SP500-267  |  |
| Certifications                    | Camera:<br>Model key: T08-VA2.3.K3.B0R5-LLH-005.A-T<br>ATEX: II 2 G Ex db IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db<br>Certificate: TÜV 18 ATEX 8218X<br>IECEX: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db<br>Certificate: IECEX TUR 18.0023X<br>IA: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db<br>Certificate: MASC MS/18-3256X<br>EAC Ex: 1Ex db IIC T5 Gb, Ex tb IIIC T95°C Db<br>Series: T8, Model: T08-VA2.3.<br>Certificate: RU C-DE.AB61.B.00381/19<br>EXTB-3 Junction Box ExCam:<br>Model key: T12-3M20<br>ATEX: II 2 G Ex eb IIC T5 Gb, Ex II 2 D Ex tb IIIC T95°C Db IP66<br>Certificate: PTB 99 ATEX 3103<br>IECEX: Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66<br>Certificate: IECEX PTB 06.0026<br>EAC Ex: 1Ex e IIC T5 Gb X, Ex tb IIIC T95°C Db X<br>Certificate: RU C-DE.AA71.B.00120<br>PESO: Ex db IIC T6 Gb<br>Certificate: A/P/HQ/KA/104/5735 |  |
| 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   |  |

|                                  |   |                               |  |
|----------------------------------|---|-------------------------------|--|
| <b>Optional accessories</b>      | Wall Mount ExCam XF, Pole Mount ExCam XF<br>Non-armored cables ExCam, 10, 25, 95 m (33, 82, 312 ft),<br>Armored cables ExCam, 10, 25, 95 m (33, 82, 312 ft)<br>Ex Connection Rail 4 PoE PS 24, Ex Connection Rail 8 PoE PS 24<br>For more accessories, see <a href="http://axis.com">axis.com</a> | <b>Warranty</b>               | 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>  |
| <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>   |                               | 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><br>b. <i>Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).</i> |
| <b>Languages</b>                 | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese   | Environmental responsibility: | <a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a>   |