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)
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°
- **Auto Focus**
- **Minimum illumination**: Color: 0.16 lux at 50 IRE F1.4
  BW: 0.03 lux at 50 IRE F1.4
- **Shutter time**: 1/6600 s to 1 s

**Video**

- **Video compression**: H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
- **Resolution**: 1920x1080p HDTV 1080p (16:9) to 160x120 (4:3)
- **Maximum pixel density with 32x optical zoom**: 25 m (82 ft); 1912 px/m
  50 m (164 ft); 356 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/MHR 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, generic overview, backlit entrance

**Pan/Tilt/Zoom**

- **Digital ptz**: Zoom: 32 optical, 12x digital, Total 384x
  Preset positions

**Network**

- **Security**: Password protection, IP address filtering, HTTPS® encryption, IEEE 802.1X® network access control, digest authentication, user access log, centralized certificate management, brute force delay protection
- **Supported protocols**: IPv4, IPv6, US/5eV, HTTP, HTTPS®, SSL/TLS®, QoS Layer 3 DiffServ, FTP, SFTP, CIF/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, RTSP, TCP, UDP, IGMP, RTP, ICMP, DHCP, ARP, Socks, SSH, LLDP, MQTT

**System integration**

- **Application Programming Interface**: Open API for software integration, including VAPIDX® and AXIS Camera Application Platform; specifications at www.axis.com
  AXIS Video Hosting System (AVHS) with One-Click Connection
- **ONVIF® Profile B, 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 www.axis.com/ocap
- **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

**Casing**

- **Power**: IP68-rated, ASTM 316L [EN 1.4404] stainless steel casing for maximum corrosion protection
- **Wiper included**
- **De-icing control®**
  Casing manufactured and certified by Samcon Prozesstechnik GmbH, www.samcon.eu

**Sustainability**

- **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**: EXB-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**: Maximum temperature (intermittent): 75 °C (167 °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 61000-4-11
- **Environment**: IEC/EN 60529 IP68
  Network: NIST SP500–267

**Certifications**

- **Camera**: Model key: T08-VA2.3.K3.3.B05-LH-000A-T
  ATEX: II 2 G Ex ib IIC T5 Gb, II 2 D Ex tb IIC T95°C Db
  Certificate: TÜV TB ATEX 2178X
  IECEx: Ex db IIC T6 Gb, Ex tb IIC T95°C Db
  Certificate: IECEx 18.0023X
  IA: Ex d IIIC T6 Gb, Ex tb IIC T95°C Db
  Certificate: MAS9 318-3256X
  EAC: Ex 1Ex d IIIC T6 Gb, Ex tb IIC T95°C Db
  Certificate: RU C-DE.A61.B.000381/19
- **EXB-3 Junction Box ExCam**: Model key: T12-3M20X
  ATEX: II 2 G Ex ib IIC T5 Gb, Ex I1 2 D Ex tb IIIC T95°C Db IP66
  Certificate: FTB 99 ATEX 3103
  IECEx: Ex e IIC T6 Gb, Ex tb IIC T95°C Db IP66
  Certificate: IECEx PTB 06.E0026
  EAC: Ex 1Ex e IIC T6 Gb X, Ex tb IIC T95°C Db X
  Certificate: RU C-DE.AA7.B.00120
  PESO: Pending

**Dimensions**

- **Mounting**: 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, Weather shield ExCam XF, ASDP03-T Cable ExCam 5 m (16 ft), EXB-3 Junction Box ExCam, AXIS Surveillance microSDXC Card 128 GB

**Optional accessories**: WallMount 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](http://www.axis.com)

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a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit, [openssl.org](http://openssl.org), and cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).

b. Internal heaters to defrost ice build-up, activated by HTTP API (VAPIX).

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