

ExCam XF Q1645 Explosion-Protected Network Camera

Zone-certified fixed camera with excellent light sensitivity

ExCam XF Q1645 Explosion-Protected Network Camera is an easy-to-install and easy-to-integrate fixed box camera. It delivers high-resolution video (2 MP) at full frame rate (up to 120 fps) for crystal-clear images. 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 low weight, PoE support for plug-and-play installation, ExCam XF Q1645 offers significant savings. The camera helps detecting unauthorized individuals and monitor employee safety in hazardous areas. 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 at 100/120 fps
- > Unparalleled light sensitivity with 1/2" sensor
- > Electronic image stabilization (EIS) and low weight







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Camera		Data streaming	Event data
Image sensor	1/2" progressive scan RGB CMOS	Built-in	Remote focus and zoom with supplied i-CS lens
Lens	IR corrected i-CS lens	installation aids	
	Varifocal 3.9–10.0 mm, F1.5 Horizontal field of view: 85°-42°	Analytics	
	Vertical field of view: 47°–23°	Applications	Included
Day and night	Automatically removable infrared-cut filter		AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm
Minimum	HDTV 1080p 25/30 fps:		Supported AVIC Projector Defenden
illumination	Color: 0.03 lux, B/W: 0.01 lux, SNR: 0.03 lux, at 50 IRE F1.5		AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling
	HDTV 1080p 25/30 fps (WDR off): Color: 0.02 lux, SNR: 0.02 lux, at 50 IRE F1.5		installation of third-party applications, seeaxis.com/acap
Shutter speed	1/100000 to 2 s	General	
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)	Casing	IP68-rated, SS 1.4404 (ASTM 316L) stainless steel casing for maximum corrosion protection.
System on chip	o (SoC)		Casing manufactured and certified by Samcon Prozessleittechni
Model	ARTPEC-6		GmbH, www.samcon.eu
Memory	1 GB RAM, 512 MB Flash	Sustainability	PVC free
Video		Power	Camera:
Video	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile		Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.5 W, max 9.1 W
compression	Motion JPEG		Heater: 24 V DC, max 40 W
Resolution	1920x1080 to 320x180		24 V DC is required for operating at temperatures below 0 °C (32 °F).
Frame rate	Up to 100/120 fps (50/60 Hz) in 1920x1080 (no WDR)	Connectors	EXTB-3 Junction Box ExCam:
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG		10 terminal clamp UT 2.5
	Axis Zipstream technology in H.264		2 conductor terminal USLKG 5
	Controllable frame rate and bandwidth	Storage	Pre-installed AXIS Surveillance microSDXC Card 128 GB Support for SD card encryption (AES-XTS-Plain64 256bit)
l	VBR/MBR H.264		Support for recording to network-attached storage (NAS)
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR – 120 dB, white balance, day/night threshold, exposure mode, exposure		For SD card and NAS recommendations see axis.com
	zones, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, text and image overlay, privacy masks, defogging, noise reduction, electronic image stabilization, barrel distortion correction, orientation aid,	Operating conditions	-60 °C to 60 °C (-76 °F to 140 °F) Humidity 10-100% RH (condensing)
		Storage	-40 °C to 65 °C (-40 °F to 149 °F)
		conditions	-40 C t0 65 C (-40 F t0 145 F)
	fine tuning of behavior at low light Scene profiles: forensic, live, traffic overview, backlit entrance	Approvals	EMC
Network	scene promest roteriste are dame overwent outline endance		EN 55032 Class A, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3
Security	Password protection, IP address filtering, HTTPS ^a encryption,		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
	IEEE 802.1X ^a network access control, digest authentication, user		Safety
	access log, centralized certificate management, brute force delay protection		IS 13252 Environment
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPSa, TLSa,		IEC/EN 60529 IP68, IEC/EN 62262 IK10
protocols	QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour),		Explosion DIN EN/IEC 60079-0, DIN EN/IEC 60079-1, DIN EN/IEC 60079-7
	UPnPTM, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6,		DIN EN/IEC 60079-31, TR CU 012/2011, GOST R IEC 60079-0,
	ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424,		GOST IEC 60079-1, GOST R IEC 60079-7, GOST R IEC 60079-31 Network
	UDP/TCP/TLS), Link-Local address (ZeroConf)		NIST SP500–267
System integra		Certifications	Camera:
Application Programming	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com		Model key: T08-VA2.3.K3.BOR2-LL.H-005.A-T ATEX: II 2 G Ex db IIC T5 Gb, Ex II 2 D Ex tb IIIC T95°C Db,
Interface	One-Click Cloud Connection		I M2 Ex db I Mb
	ONVIF Profile S and ONVIF Profile G, specifications at <i>onvif.org</i>		Certificate: TÜV 18 ATEX 8218X
Event triggers	Analytics, external input, edge storage events Detectors: live stream accessed, video motion detection, shock		IECEx: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, Ex d I Mb Certificate: IECEx TUR 18.0023X
	detection, snock		IA: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, Ex d I Mb
	Hardware: network, temperature		Certificate: MASC MS/18-3256X EAC Ex: 1Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, PB db I Mb
	Input Signal: manual trigger, virtual inputs MQTT subscribe		Series: T08, Model: T08-VA2.3.
	PTZ: error, moving, preset reached, ready		Certificate: RU C-DE.AB61.B.00381/19
	Storage: disruption, recording		EXTB-3 Junction Box ExCam: (to be removed if the camera is installed in mines)
	System: system ready		Model key: T12-3M20
	System: system ready Time: recurrence, use schedule		
Event actions			ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66,
Event actions	Time: recurrence, use schedule File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103
Event actions	Time: recurrence, use schedule File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip Notification: email, HTTP, HTTPS and TCP		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103 IECEx: Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66, -50°C < Tamb <
Event actions	Time: recurrence, use schedule File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip Notification: email, HTTP, HTTPS and TCP Overlay text, Send SNMP Trap Video recording to edge storage		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103
Event actions	Time: recurrence, use schedule File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip Notification: email, HTTP, HTTPS and TCP Overlay text, Send SNMP Trap Video recording to edge storage Pre- and post-alarm video buffering		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103 IECEx: Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: IECEx PTB 06.0026 EAC Ex: 1Ex e IIc T5 Gb X, Ex tb IIIC T95°C Db X
Event actions	Time: recurrence, use schedule File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip Notification: email, HTTP, HTTPS and TCP Overlay text, Send SNMP Trap Video recording to edge storage		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103 IECEx: Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66, -50°C < Tamb < +55°C Certificate: IECEx PTB 06.0026

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Dimensions	357 x 113 x 139 mm (14.06 x 4.45 x 5.5 in)
Weight	10.8 kg (23.8 lb)
Included accessories	Weathershield ExCam XF, Installation Guide, Windows decoder 1-user license, 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-port PoE PS 24, Ex Connection Rail 8-port PoE PS 24 For more accessories, see axis.com

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available on axis.com/vms
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

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

