

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		Traffic wizard, pixel counter, levelling assistant
	Varifocal 3.9–10.0 mm, F1.5	Analytics	
	Horizontal field of view: 85°-42° 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
illumination	Color: 0.03 lux, B/W: 0.01 lux, SNR: 0.03 lux, at 50 IRE F1.5		AXIS Perimeter Defender
	HDTV 1080p 25/30 fps (WDR off):		Support for AXIS Camera Application Platform enabling installation of third-party applications, seeaxis.com/acap
Chartten and a	Color: 0.02 lux, SNR: 0.02 lux, at 50 IRE F1.5	Approvals	
Shutter speed	1/100000 to 2 s	EMC	EN 55032 Class A, EN 61000-6-2, EN 61000-3-2, EN 61000-3-3
Pan/Tilt/Zoom	Digital PTZ, uploadable PTZ driver (Pelco D pre-installed)		EN 62479, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
System on chip			EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
Model	ARTPEC-6	Safety	IS 13252
Memory	1 GB RAM, 512 MB Flash	Environment	IEC/EN 60529 IP68, IEC/EN 62262 IK10
Video Video	LL 2C4 (MDEC 4 Part 10/A)/C) Main Pagaling and High Profile	Network	NIST SP500-267
compression	H.264 (MPEG-4 Part 10/AVC), Main, Baseline and High Profile Motion JPEG	Cybersecurity	ETSI EN 303 645
Resolution	1920x1080 to 320x180	Explosion	DIN EN/IEC 60079-0, DIN EN/IEC 60079-1, DIN EN/IEC 60079-7,
Frame rate	Up to 100/120 fps (50/60 Hz) in 1920x1080 (no WDR)		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
Video streaming	Multiple, individually configurable streams in H.264 and Motion	Certifications	Camera:
	JPEG		Model key: T08-VA2.3.K3.BOR2-LL.H-005.A-T
	Axis Zipstream technology in H.264 Controllable frame rate and bandwidth		ATEX: II 2 G Ex db IIC T5 Gb, Ex II 2 D Ex tb IIIC T95°C Db, I M2 Ex db I Mb
	VBR/MBR H.264		Certificate: TÜV 18 ATEX 8218X
Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR – 120		IECEx: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, Ex d I Mb Certificate: IECEx TUR 18.0023X
	dB, white balance, day/night threshold, exposure mode, exposure		IA: Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, Ex d I Mb
	zones, compression, orientation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, text and image		Certificate: MASC MS/18-3256X
	overlay, privacy masks, defogging, noise reduction, electronic		EAC Ex: 1Ex db IIC T5 Gb, Ex tb IIIC T95°C Db, PB db I Mb Series: T08, Model: T08-VA2.3.
	image stabilization, barrel distortion correction, orientation aid, fine tuning of behavior at low light		Certificate: RU C-DE.AB61.B.00381/19
	Scene profiles: forensic, live, traffic overview, backlit entrance		EXTB-3 Junction Box ExCam: (to be removed if the camera is installed in mines)
Network			Model key: T12-3M20
Security	Password protection, IP address filtering, HTTPS ^a encryption,		ATEX: II 2 G Ex eb IIC T5 Gb, II 2 D Ex tb IIIC T95°C Db IP66,
	IEEE 802.1X ^a network access control, digest authentication, user access log, centralized certificate management, brute force delay		-50°C < Tamb < +55°C Certificate: PTB 99 ATEX 3103
	protection		IECEx: Ex e IIC T5 Gb, Ex IIIC T95°C Db IP66, -50°C < Tamb <
Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPSa, TLSa,		+55°C Certificate: IECEx PTB 06.0026
protocols	QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour),		EAC Ex: 1Ex e IIc T5 Gb X, Ex tb IIIC T95°C Db X
	UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SFTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6,		Certificate: RU C-DE.AA71.B.00120 PESO: Ex db IIC T6 Gb
	ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424,		Certificate: A/P/HQ/KA/104/5735
	UDP/TCP/TLS), Link-Local address (ZeroConf)	Cybersecurity	
System integro		Edge security	Software: Signed firmware, brute force delay protection, digest
Application	Open API for software integration, including VAPIX® and	,	authentication and OAuth 2.0 RFC6749 OpenID Authorization
Programming Interface	AXIS Camera Application Platform; specifications at axis.com One-Click Cloud Connection		Code Flow for centralized ADFS account management, password protection
	ONVIF Profile S and ONVIF Profile G, specifications at onvif.org	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2),
Event triggers	Analytics, external input, edge storage events	Network security	IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS, TLS
	Detectors: live stream accessed, video motion detection, shock detection		v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI,
	Hardware: network, temperature		host-based firewall
	Input Signal: manual trigger, virtual inputs	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy
	MQTT subscribe PTZ: error, moving, preset reached, ready		Axis Security Development Model
	Storage: disruption, recording		AXIS OS Software Bill of Material (SBOM)
	System: system ready Time: recurrence, use schedule		To download documents, go to axis.com/support/cybersecu- rity/resources
Event actions	1		To read more about Axis cybersecurity support, go to
Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email, send video clip		axis.com/cybersecurity
	Notification: email, HTTP, HTTPS and TCP	General	
	Overlay text, Send SNMP Trap Video recording to edge storage	Casing	IP68-rated, SS 1.4404 (ASTM 316L) stainless steel casing for maximum corrosion protection.
			Casing manufactured and certified by Samcon Prozessleittechnik
	Pre- and post-alarm video buffering		casing manaractured and certified by Sameon Prozessienteemin
	Fre- and post-alarm video buffering External output activation, day/night vision mode, status LED, WDR mode, Defog mode, PTZ control		GmbH, www.samcon.eu

www.cxis.com T10123910/EN/M22.2/2401

Power	Camera: Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.5 W, max 9.1 W Heater: 24 V DC, max 40 W 24 V DC is required for operating at temperatures below 0 °C
Connectors	(32 °F). EXTB-3 Junction Box ExCam: 10 terminal clamp UT 2.5 2 conductor terminal USLKG 5
Storage	Pre-installed AXIS Surveillance microSDXC Card 128 GB Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see 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)
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, ASKDPO3-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

a. 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).

