

ExCam XF P1377 Explosion-Protected Camera

Zone-certified fixed camera with excellent image quality

Certified (ATEX, IECEx, EAC Ex, IA, INMETRO and PESO) for use in potentially combustible environments, this lightweight camera offers high quality, high resolution images of people and objects. Featuring Axis Lightfinder and Axis Forensic WDR, it delivers true colors and great details in challenging light or near darkness. It includes electronic image stabilization for stable images despite vibration. And, intelligent i-CS lens technology facilitates fast and easy installation with remote zoom. Built-in cybersecurity features such as signed firmware and secure boot ensure the integrity and authenticity of the firmware. Furthermore, Axis Zipstream with support for H.264/H.265 significantly lowers bandwidth and storage requirements.

- > 30 fps in 5 MP or up to 180 fps in HDTV 720p
- > Lightfinder and Forensic WDR
- > Zipstream supporting H.264 and H.265
- > Signed firmware and secure boot
- > ATEX, IECEx, EAC Ex, IA, INMETRO and PESO



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Camera

Image sensor

1/2.7" progressive scan RGB CMOS

Lens

IR-corrected i-CS lens

Varifocal 3.9–10 mm, F1.5

4:3 aspect ratio:

Horizontal field of view: 75°–31°

Vertical field of view: 55°–23°

16:9 aspect ratio:

Horizontal field of view: 75°–31°

Vertical field of view: 41°–17°

Remote zoom, remote focus

Day and night

Automatically removable infrared-cut filter

Minimum illumination

5 MP 25/30 fps with Forensic WDR and Lightfinder:

Color: 0.15 lux, at 50 IRE F1.5

B/W: 0.03 lux, at 50 IRE F1.5

Shutter speed

WDR: 1/33500 s to 1/5 s

No WDR: 1/5000 s to 1/5 s

System on chip (SoC)

Model

ARTPEC-7

Memory

1 GB RAM, 512 MB Flash

Video

Video compression

H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles

H.265 (MPEG-H Part 2/HEVC)

Motion JPEG

Resolution

2592x1944 (5 MP) to 160x90

2688x1512 (4 MP) to 160x90

1280x720 (HDTV 720p) to 160x90

Frame rate

Capture mode 5 MP: 25/30 fps (50/60 Hz)

Capture mode 4 MP: 25/30 fps (50/60 Hz)

Capture mode HDTV 720p: 180 fps

Video streaming

Multiple, individually configurable streams in H.264, H.265 and Motion JPEG

Axis Zipstream technology in H.264 and H.265

Controllable frame rate and bandwidth

VBR/ABR/MBR H.264/H.265

Video streaming indicator

Multi-view streaming

Up to 8 individually cropped out view areas

Image settings

Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, exposure mode, exposure zones, local contrast, tone mapping, compression, rotation: auto, 0°, 90°, 180°, 270° including Corridor Format, mirroring of images, dynamic text and image overlay, privacy masks, defogging, electronic image stabilization, barrel distortion correction, scene profiles: forensic, vivid, traffic overview

Pan/Tilt/Zoom

Digital PTZ

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform, specifications at axis.com

One-Click Cloud Connection

ONVIF® Profile G, ONVIF® Profile S, and

ONVIF® Profile T, specification at onvif.org

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.

Onscreen controls

Electronic image stabilization
Day/night shift
Defogging
Wide dynamic range

Event conditions

Analytics, shock detection, edge storage events, supervised external input, audio level, time scheduled, MQTT subscribe

Event actions

Record video: SD card and network share
Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email
Pre- and post-alarm video or image buffering for recording or upload
Notification: email, HTTP, HTTPS, TCP and SNMP trap
PTZ: PTZ preset, start/stop guard tour
Overlay text, external output activation, play audio clip, WDR mode, day/night mode
MQTT publish

Data streaming

Event data

Built-in installation aids

Focus assistant, pixel counter, remote back focus, autorotation

Analytics

Applications

Included

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard

AXIS Video Motion Detection, active tampering alarm, gatekeeper

Supported

AXIS Live Privacy Shield, AXIS Perimeter Defender
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption

Hardware: Secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS², TLS v1.2/v1.3², Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

Documentation

AXIS OS Hardening Guide

Axis Vulnerability Management Policy

Axis Security Development Model

AXIS OS Software Bill of Material (SBOM)

AXIS OS Software Bill of Material (SBOM)

To download documents, go to axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Casing

IP68-rated, EN 1.4404 (ASTM 316L) stainless steel casing for maximum corrosion protection
Casing manufactured and certified by Samcon Prozessleittechnik GmbH, www.samcon.eu

Power

Camera: Power over Ethernet (PoE)

IEEE 802.3af/802.3at Type 1 Class 3, max 10.7 W, typical 5.4 W

Heater: 24 V DC, max 40 W

24 V DC is required for operating at temperatures below 0 °C (32 °F).

Connectors

5 m (16 ft) pigtail cable for network (Cat 6, RJ45 connector) and power

Storage

Pre-installed AXIS Surveillance microSDXC Card 128 GB
Support for SD card encryption (AES-XTS-Plain64 256bit)

Recording to network-attached storage (NAS)

For SD card and NAS recommendations see axis.com

2. 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).

Operating conditions

-60 °C to 60 °C (-76 °F to 140 °F)

Maximum temperature according to NEMA TS 2 (2.2.7):
74 °C (165 °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 55035, EN 55032 Class A, EN 61000-3-2,
EN 61000-3-3, EN 61000-6-1, EN 61000-6-2

Environment

IEC/EN 60529 IP68

Network

NIST SP500-267

Explosion

EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-31,
TR CU 012/2011, GOST R IEC 60079-0,
GOST IEC 60079-1, GOST R IEC 60079-31

Certifications

Model key: T08-VA2.3.K3.BOR2-LL.H-005.N-P

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 T 95 °C Db

Series: T8, Model: T08-VA2.3.

Certificate: RU C-DE.HA65.B.01652/22

INMETRO: Ex db IIC T5 Gb, Ex tb IIIC T95 °C Db

Certificate: TÜV 23.0363X

PESO: Ex db IIC T5 Gb

Certificate: A/P/HQ/KA/104/5735

UKCA: II 2 G Ex db IIC T5 Gb, II 2 D Ex tb IIIC T95 °C Db

Certificate: TÜV 22 UKEX 7137 X

Dimensions

ø 113 mm (4.4 in)

Height: 160.5 mm (6.3 in)

Length: 334 mm (13.1 in)

Weight

7.8 kg (17.2 lb)

Included accessories

Installation Guide, Windows® decoder 1-user license,
SKDP03-T Cable ExCam 5 meter,
AXIS Surveillance microSDXC Card 128 GB

Optional accessories

Wall Mount ExCam XF, Pole Mount ExCam XF,

EXTB-3 Junction Box ExCam,

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,

Weathershield ExCam XF

For more accessories, see [axis.com](https://www.axis.com)

Languages

English, German, French, Spanish, Italian, Russian,
Simplified Chinese, Japanese, Korean, Portuguese,
Traditional Chinese, Dutch, Czech, Swedish, Finnish,
Turkish, Thai, Vietnamese, Polish

Warranty

5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)

Sustainability

Substance control

PVC free

Free of hazardous brominated and chlorinated flame
retardants (BFR/CFR free)

RoHS in accordance with EU RoHS Directive 2011/65/
EU/ and EN 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP
UUID, see echa.europa.eu

Environmental responsibility

[axis.com/environmental-responsibility](https://www.axis.com/environmental-responsibility)

Axis Communications is a signatory of the UN Global
Compact, read more at unglobalcompact.org