

## 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**



# ExCam XF P1377 Explosion-Protected Camera

## 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, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, 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](http://axis.com)

One-Click Cloud Connection

ONVIF® Profile G, ONVIF® Profile S, and

ONVIF® Profile T, specification at [onvif.org](http://onvif.org)

1. 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 ([ey@cryptsoft.com](mailto: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](https://axis.com/vms).

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### Onscreen controls

Electronic image stabilization  
Day/night shift  
Defogging  
Wide dynamic range

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### Event conditions

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

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### 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

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### Data streaming

Event data

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### 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](https://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

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### Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

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### Documentation

*AXIS OS Hardening Guide*

*Axis Vulnerability Management Policy*

*Axis Security Development Model*

AXIS OS Software Bill of Material (SBOM)

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To download documents, go to [axis.com/support/cybersecurity/resources](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://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](https://www.samcon.eu)

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### 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).

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### Connectors

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

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### 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](https://axis.com)

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

**Environmental responsibility**

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)  
 Axis Communications is a signatory of the UN Global  
 Compact, read more at [unglobalcompact.org](http://unglobalcompact.org)