

# EXCAM XF P3807 Explosion-Protected Panoramic Camera

## Zone-certified panoramic multisensor camera

EXCAM XF P3807 delivers 180° panoramic overviews with excellent images and no blind spots. This 8-megapixel multisensor camera captures quality forensic images at up to 30 fps. With four sensors built into a single camera, and seamless stitching of all four images, this lightweight camera lets you monitor one, single smooth and cohesive video stream instead of watching multiple streams. It's certified for ATEX, IECEx, EAC Ex, PESO, INMETRO Zone 1/21 for use in explosion-prone applications. It's enclosed in a stainless steel (SS 316L) housing and includes Forensic WDR and Lightfinder for clear, sharp images even in challenging light.

- > [ATEX, IECEx, EAC Ex, PESO, INMETRO Zone 1/21 certified](#)
- > [Seamless 180° panoramic overviews](#)
- > [8 MP, 180° multisensor camera](#)
- > [Cost-efficient installation with PoE](#)
- > [Forensic WDR and Lightfinder](#)



# EXCAM XF P3807 Explosion-Protected Panoramic Camera

## Camera

### Image sensor

4 x 1/2.9" progressive scan RGB CMOS

### Lens

Fixed 3.2 mm, F2.0

Horizontal field of view: 180°

Vertical field of view: 90°

Minimum focus distance: 10 m (32.8 ft)

### Day and night

Automatic IR-cut filter

Hybrid IR filter

### Minimum illumination

Color: 0.17 lux, F2.0

B/W: 0.05 lux, F2.0

### Shutter speed

1/33500 to 1/10 s

### Camera adjustment

Pan  $\pm 180^\circ$

Tilt 0°, 35°, 45°, 55°

Roll  $\pm 5^\circ$

Default tilt angle: 45°

## System on chip (SoC)

### Model

ARTPEC-6

### Memory

1 GB RAM, 512 MB Flash

## Video

### Video compression

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

Motion JPEG

### Resolution

4320x1920 to 480x270

### Frame rate

8.3 MP (client dewarp): up to 25/30 fps (50/60 Hz) without WDR, up to 12.5/15 fps (50/60 Hz) with WDR  
7.5 MP (dewarped): up to 12.5/15 fps (50/60 Hz)

### Video streaming

8.3 MP (client dewarp): 1 individually configurable stream in H.264 and Motion JPEG

7.5 MP (dewarped): 2 individually configurable streams in H.264 and Motion JPEG

Axis Zipstream technology in H.264

Controllable frame rate and bandwidth

VBR/ABR/MBR H.264

### WDR

Forensic WDR: Up to 120 dB depending on scene

### Image settings

Saturation, contrast, brightness, sharpness, white balance, day/night threshold, local contrast, exposure mode, compression, dynamic text and image overlay, polygon privacy mask

### Image processing

Axis Zipstream, Forensic WDR, Lightfinder

## Network

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>®</sup>, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS)

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX<sup>®</sup>, AXIS Camera Application Platform (ACAP); specifications at [axis.com/developer-community](https://axis.com/developer-community).

One-Click Cloud Connection

ONVIF<sup>®</sup> Profile G, ONVIF<sup>®</sup> Profile M, ONVIF<sup>®</sup> Profile S and ONVIF<sup>®</sup> Profile T, specification at [onvif.org](https://onvif.org)

1. 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)).

## 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

Privacy masks  
Media clip

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## Event conditions

Device status: above operating temperature, above or below operating temperature, below operating temperature, within operating temperature, IP address removed, live stream active, new IP address, network lost, PTZ power failure, system ready  
Edge storage: recording ongoing, storage disruption, storage health issues detected  
I/O: manual trigger, virtual input  
MQTT: subscribe  
PTZ: PTZ malfunctioning, PTZ ready  
Scheduled and recurring: schedule  
Video: average bitrate degradation, day-night mode, tampering

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## Event actions

Day-night mode  
Illumination: use lights, use lights while the rule is active  
MQTT: publish  
Notifications: HTTP, HTTPS, TCP and email  
Overlay text  
PTZ: PTZ preset, start/stop guard tour  
Recordings: SD card and network share  
SNMP trap messages: send, send while the rule is active  
Status LED: flash, flash while the rule is active  
Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email

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## Built-in installation aids

Pixel counter, Leveling guide

## Analytics

### Applications

#### Included

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard  
AXIS Video Motion Detection, active tampering alarm, shock detection  
Support for AXIS Camera Application Platform enabling installation of third-party applications, see [axis.com/acap](https://axis.com/acap)

## Approvals

### Supply chain

TAA compliant

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### EMC

EN 55035, EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2  
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

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### Safety

IEC/EN 62368-1

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### Environment

IEC/EN 60529 IP66/IP67, IEC/EN 60529 IP68

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### Network

NIST SP500-267

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### Explosion

EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-31

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### Certifications

**Model key:** T08-VA4.1K.PS1-L.H-000.X-X  
**ATEX**

Ex II 2G Ex db IIC T6 Gb

Ex II 2D Ex tb IIIC T80°C Db

**Certificate number:** TÜV 18 ATEX 8218X

**IECEX**

Ex db IIC T6 Gb

Ex tb IIIC T80°C Db

**Certificate number:** IECEX TUR 18.0023X

**INMETRO**

Ex db IIC T6

Ex tb IIIC 80°C

**Certificate number:** TÜV 23.0363X

**EAC Ex**

Ex db IIC T6

Ex tb IIIC T80°C

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

**PESO**

Ex db IIC T6

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

**UKCA**

Ex db IIC T6

Ex tb IIIC T80°C

**Certificate number:** TÜV 22 UKEx 7137 X

## Cybersecurity

### Edge security

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

### Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, 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)

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

IP66, IP67 and IP68-rated

Stainless steel chassis SS 316L

Color: silver

### Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, typical 7 W, max 12.9 W

### Connectors

Network: M25x1.5 cable entry for 10BASE-T/100BASE-TX PoE via flipConnect

### Storage

Pre-installed AXIS Surveillance microSDXC Card 128 GB

Support for microSD/microSDHC/microSDXC card

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](https://axis.com)

### Operating conditions

-50 °C to 60 °C (-58 °F to 140 °F)

Start-up temperature: -30 °C

Humidity 10–100% RH (condensing)

### Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 10–100% RH (condensing)

### Dimensions

Height: 378 mm (14.9 in)

Dome ø 195 mm (7.7 in)

### Weight

16 kg (35.3 lb)

### Mounting height

Recommended: 4–15 m

### Box content

Camera, installation guide, Windows decoder 1-user license, AXIS Surveillance microSDXC Card 128 GB (preinstalled), owner authentication key

### Optional accessories

Wall mount, pole mount, cable gland, cable

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

### System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator

Available at [axis.com](https://axis.com)

### Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

### Warranty

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

### Part numbers

Available at [axis.com/products/excam-xf-p3807#part-numbers](https://axis.com/products/excam-xf-p3807#part-numbers)

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)).

## Sustainability

### Substance control

PVC 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 [axis.com/partner](https://www.axis.com/partner).

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### Materials

Screened for conflict minerals in accordance with OECD guidelines

To read more about sustainability at Axis, go to [axis.com/about-axis/sustainability](https://www.axis.com/about-axis/sustainability)

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### 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](https://www.unglobalcompact.org)