

## AXIS FA54 Main Unit

### High-performance multi-view surveillance with Forensic WDR

AXIS FA54 supports up to four AXIS FA Sensor Units, enabling cost-effective and highly discreet surveillance of four closely situated areas with one system. The main unit can stream full frame rate HDTV 1080p videos from four sensor units simultaneously using one IP address. Ideal for retail applications, AXIS FA54 also supports quad view streaming and has an HDMI™ port for connection to a surveillance or public view monitor. The unit uses Forensic WDR (wide dynamic range) that is tuned for motion. Axis Zipstream video compression technology reduces bandwidth and storage requirements.

- > Full frame rate HDTV 1080p streams from four sensor units
- > Forensic WDR
- > Quad view stream, Axis Zipstream and Corridor Format
- > HDMI output, two-way audio, I/Os, two microSD card slots, 12 V DC



# AXIS FA54 Main Unit

## Video

### Video compression

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

### Resolution

1920x1080 (1080p) to 480x270

### WDR

Forensic WDR

### Frame rate

In 1080p: up to 25/30 fps (50/60 Hz)

### Video streaming

Multiple, 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  
Quad view, max 1080p resolution  
HDMI

### HDMI output

Single camera source  
Picture-in-picture  
Quad view  
Playlist: single camera sources, still images  
1080p 30/25/24 fps (50/60 Hz)  
720p 50/60 fps (50/60 Hz)  
576p 50 fps (50/60 Hz)  
480p 60 fps (50/60 Hz)

### Image settings

Compression, color, brightness, sharpness, contrast, white balance, exposure value, exposure control, exposure zones, local contrast, rotation, Corridor Format, text and image overlay, privacy mask, mirroring of images,  
Picture-in-picture, rotation in quad view

## Audio

### Audio streaming

Two-way, full-duplex and half-duplex

### Audio encoding

AAC-LC 8/16/32/48 kHz, max 128 kbit/s  
G.711 PCM 8 kHz 64 kbit/s  
G.726 ADPCM 8 kHz 32 kbit/s or 24 kbit/s  
Opus 8/16/48 kHz, max 128 kbit/s  
Configurable bit rate

### Audio input/output

External microphone input or line input, line output

## Network

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS<sup>1</sup>, TLS<sup>1</sup>, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>TM</sup>, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, 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 M, ONVIF® Profile S, and ONVIF® Profile T, specification at [onvif.org](http://onvif.org)

### 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](http://axis.com/vms).

### Event triggers

Analytics, external inputs  
Edge storage events  
MQTT subscribe

### Event actions

File upload: email, FTP, HTTP, HTTPS, network share  
MQTT publish  
Notification: email, HTTP, HTTPS and TCP  
Pre- and post-alarm video buffering  
Video and audio recording to edge storage, play audio clip, external output activation

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)).

## Built-in installation aids

Pixel counter

## Data streaming

Event data

## Analytics

### Applications

#### Included

AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard

AXIS Video Motion Detection

Active tampering alarm, audio detection

#### Supported

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

### 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

### 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

Aluminum

Plastic

### Sustainability

PVC-free

## Memory

1024 MB RAM, 512 MB Flash

## Power

12 V DC, typical 14 W, max 30 W

## Connectors

RJ45 10BASE-T/100BASE-TX/1000BASE-T

RJ12 for sensor units

6-pin terminal block for four configurable inputs/outputs (12 V DC output), max load 50 mA

Two 3.5 mm mic/line in, 3.5 mm line out

DC connector for 12 V DC input

HDMI type A

## Storage

Support for microSD/microSDHC/microSDXC card  
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)

## Operating conditions

0 °C to 45 °C (32 °F to 113 °F)

Humidity 10-85% RH (non-condensing)

## Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5-95% RH (non-condensing)

## Approvals

### EMC

a55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, ICES-003 Class A, KCC KN32 Class A, KN35

### Safety

IEC/EN/UL 62368-1, IS 13252

### Environment

EN 50581, IEC 60529 IP3X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-78, IEC 60068-2-6, IEC 60068-2-27

### Network

NIST SP500-267

## Dimensions

202 x 102 x 31 mm (7 15/16 x 4 x 1 1/4 in)

## Weight

442 g (0.98 lb)

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)).

### Included accessories

Installation Guide, Windows® decoder 1-user license,  
power supply  
Rubber feet, mounting brackets

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### Optional accessories

AXIS F7315 Cable White 15 m  
For more accessories, see [axis.com](https://www.axis.com)

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### Languages

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

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### Warranty

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