

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, HTTPS¹, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnPTM, SNMPv1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, 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
One-click cloud connection
ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at 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.

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), and cryptographic software written by Eric Young (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

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)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)

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

To read more about Axis cybersecurity support, go to 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

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), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Included accessories

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

Optional accessories

AXIS F7315 Cable White 15 m
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

Warranty

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