

AXIS F9114 Main Unit

4-channel main unit with audio and I/O

AXIS F9114 is designed for use with up to four sensor units in discreet video surveillance applications. And it requires just one video management software (VMS) license. Ideal for emergency vehicles and buses, it features ignition control with controlled shutdown. AXIS Sensor Metrics Dashboard ACAP comes pre-installed in this main unit. The ACAP gathers information from the connected sensor devices and stores the data directly on the main unit SD-card. The built-in accelerometer alerts you if the vehicle deviates from normal movement. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > 1080p at 30 fps on all 4-channels
- > Rugged design and connectors
- > Multiple sensor and cable options
- > Accelerometer, GPS, modbus support
- > Built-in cybersecurity with Axis Edge Vault



AXIS F9114 Main Unit

System on chip (SoC)

Model

ARTPEC-7

Memory

2x 1024 MB 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) Main Profile
Motion JPEG

Resolution

Up to 3840x2160 8Mp¹

Up to 2592x1944 5Mp¹

Up to 1920x1080 HDTV 2Mp¹

Frame rate

Up to 30/25 fps (60/50 Hz) in 1080p and up to 60/50 fps (60/50 Hz) in 720p²

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

Low latency mode

Video streaming indicator

Image settings

Contrast, brightness, sharpness, Forensic WDR, fixed orientation aid, white balance, tone mapping, exposure control, exposure zones, compression, rotation: 0°, 90°, 180°, 270°, mirroring, polygon privacy mask, control queue

Audio

Audio streaming

Two-way, full duplex

Audio encoding

24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz

Configurable bit rate

Audio input/output

2x external microphone input or line input, 1x line output, ring power, digital audio input

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS³, HTTP/2, TLS³, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP[®], SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, RTCP, DHCP, SSH, SIP, 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 and ONVIF[®] Profile S, specification at onvif.org

Event conditions

Device status, digital audio, edge storage, I/O, PTZ, scheduled event, video

MQTT subscribe

Event actions

Play audio clip, toggle I/O, send images, MQTT publish, send notifications, overlay text, recordings, SNMP trap messages, status LED, video clips

Data streaming

Event data

1. Resolution varies depending on the sensor unit used.

2. For main units and sensor units capture mode specifications, see capture mode table.

3. 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).

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata

AXIS Video Motion Detection, audio detection

AXIS Sensor Metrics Dashboard:

GPS over serial: Protocol: NMEA 0183, Port mode:

RS232

Modbus over serial: Protocol: Modbus RTU, Port mode:

RS485 2-wire

Modbus over IP: Protocol: Modbus TCP, Port mode:

Ethernet on switch

Supported

Tampering alarm

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

AXIS Object Analytics

Sensors supported: one per unit

Object classes: humans, vehicles

Scenarios: line crossing, object in area, crossline counting, occupancy in area

Up to 10 scenarios

Other features: triggered objects visualized with color-coded bounding boxes

Polygon include/exclude areas

Perspective configuration

ONVIF Motion Alarm event

AXIS Scene Metadata

Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Object attributes: confidence, position

Approvals

EMC

CISPR 24, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EAC, ECE R10 rev.05 (E-mark)

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES-3(A)/NMB-3(A)

Japan: VCCI Class A

Korea: KC KN32 Class A, KC KN35

USA: FCC Part 15 Subpart B Class A

Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, UN ECE R118, IS 13252

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC TR 60721-4-5 Class 5M3, IEC/EN 60529 IP3X, IEC/EN 61373 Category 1 Class B, NEMA TS 2 (2.2.7-2.2.9)

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS-140

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, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)⁴, IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS⁴, TLS v1.2/v1.3⁴, 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

IP3X-rated

Aluminum casing

Color: black NCS S 9000-N

Sustainability

PVC free

4. 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).

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
10–48 V DC, typical 11 W, max 25.5 W

Connectors

RJ45 for 10BASE-T/100BASE-TX/1000BASE-T PoE
4x FAKRA for sensor units
6-pin terminal block for 4x configurable I/Os (12 V DC output), max load 50 mA
3.5 mm mic/line in, 3.5 mm line out
5-pin terminal block RS232/RS485
3-pin terminal block for 10–48 V DC input

Storage

Support for microSD/microSDHC/microSDXC card and encryption
Recording to network-attached storage (NAS)
For SD card and NAS recommendations see axis.com

Operating conditions

–40 °C to 60 °C (–40 °F to 140 °F)
Maximum temperature according to NEMA TS 2 (2.2.7):
74 °C (165 °F)
Humidity 10–95% RH (non-condensing)

Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)
Humidity 5–95% RH (non-condensing)

Dimensions

51 x 120 x 120 mm (2 x 4.7 x 4.7 in)

Weight

675 g (1.5 lb)

Required hardware

AXIS TU6004-E Cable, AXIS TU6005 Plenum Cable,
AXIS F21 Sensor Unit, AXIS F4105-LRE Dome Sensor,
AXIS F7225-RE Pinhole Sensor

Included accessories

Installation guide, Windows® decoder 1-user license

Optional accessories

AXIS Surveillance Cards
TU6001 Connector 3-pin, TU6008 Connector 5-pin,
TU6009 Connector 6-pin
For more accessories, see axis.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.

Languages

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

Warranty

5-year warranty, see axis.com/warranty

Capture mode

Capture mode includes resolution, frame rate, and shutter speed for the main unit in combination with different sensor units.

Sensor unit	Resolutions	Exposure	Frame rate (fps) (60/50Hz)	Shutter speed (seconds)
2 MP sensor units	1080p: 1920x1080	Without WDR	30/25	1/20000 to 1.5 s
		WDR	30/25	1/20000 to 1.5 s
	720p: 1280x720 ⁵	Without WDR	60/50	1/32500 to 1/2 s
5 MP sensor units	5 MP: 2592x1944	Without WDR	10/10	1/16000 s to 1 s
		WDR	10/10	1/11000 s to 2 s
	Quad HD: 2560x1440	Without WDR	15/12.5	1/15000 s to 1 s
		WDR	15/12.5	1/11000 s to 2 s
8 MP sensor units	8 MP: 3840x2160 ⁶	Without WDR	5/5	

5. No WDR support. To get WDR, use 1080p: 1920x1080 and scale down.

6. No WDR support yet.