

## **AXIS F9111 Main Unit**

## Single-channel modular unit with audio and I/O

AXIS F9111 is designed for use with a single sensor unit in discreet video surveillance applications. It delivers excellent video quality even in challenging and low light conditions. Ideal for emergency vehicles and buses, it features ignition control functionality with controlled shutdown to ensure you don't drain the vehicle's battery. Based on a divided network camera concept, it uses sensors and cables (up to 30 m/ 98 ft) from Axis with SMA-FAKRA connectors to withstand vibrations and ensure a ruggedized installation. Furthermore, Axis Edge Vault protects your Axis device ID and simplifies authorization of Axis devices on your network.

- > 1080p at 60 fps or 720p at 180 fps
- > Rugged design and connectors
- > Multiple sensor and cable options
- > Support for 2-way audio and I/O
- > Zipstream, Lightfinder, Forensic WDR







## AXIS F9111 Main Unit

System on chip	o (SoC)	Cybersecurity	
Model	ARTPEC-7	Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore,
Memory	1024 MB RAM, 512 MB Flash	,	
Compute capabilities	Machine learning processing unit (MLPU)		
Video			signed video, secure boot
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	Network security	IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3 Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Resolution	1920x1080 HDTV 1080p	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
Frame rate  Video streaming	Up to 30 fps for 1080p (WDR mode) Up to 60 fps for 1080p Up to 180 fps for 720p  Multiple, individually configurable streams in H.264, H.265 and		
J	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		
		General	
		Casing	IP3X-rated Aluminum casing Color: black NCS S 9000-N
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	Sustainability	PVC free
		Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 10–48 V DC, typical 11 W, max 25.5 W
Audio		Connectors	RJ45 for 10BASE-T/100BASE-TX/1000BASE-T PoE
Audio streaming	Two-way, full duplex		FAKRA for sensor units 6-pin terminal block for 4x configurable I/Os (12 V DC output),
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		max load 50 mA 3.5 mm mic/line in, 3.5 mm line out 5-pin terminal block RS232/RS485
Audio input/output	2x external microphone input or line input, 1x line output, ring power, digital audio input	Storage	3-pin terminal block for 10-48 V DC input Support for microSD/microSDHC/microSDXC card and encryption
Network			Recording to network-attached storage (NAS)
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP*, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, 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)	Operating conditions	For SD card and NAS recommendations see <i>axis.com</i> -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)
System integration		Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> One-click cloud connection ONVIF® Profile G and ONVIF® Profile S, specification at <i>onvif.org</i>	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, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35, EAC, ECE R10 rev.05 (E-mark) 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,
Event conditions	Device status, digital audio, edge storage, I/O, PTZ, scheduled event, video		
Event actions	Play audio clip, toggle I/O, send images, MQTT publish, send notifications, overlay text, power saving mode, recordings, SNMP trap messages, status LED, video clips		
Data streaming	Event data		
Analytics			IEC/EN 60529 IP3X, IEC/EN 61373 Category 1 Class B,
AXIS Object Analytics	Object classes: humans, vehicles Features: line crossing, object in area, crossline countingBETA, occupancy in areaBETA Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event Included		NEMA TS 2 (2.2.7-2.2.9) Network NIST SP500-267
		Dimensions	51 x 120 x 120 mm (2 x 4.7 x 4.7 in)
		Weight	650 g (1.4 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
<b>Дирисации</b>	AXIS Object Analytics AXIS Video Motion Detection, audio detection Supported Tampering alarm Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	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

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Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms		Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Languages	English, German, French, Spanish, Italian, Russian, Simplified	Warranty	5-year warranty, see axis.com/warranty
	Chinese, Japanese, Korean, Portuguese, Polish, Traditional		

