

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. 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 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







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System on chip			Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap
Model	ARTPEC-7	Approvals	mistaliation of tilla party applications, see axis.com/acap
Memory Compute capabilities	Machine learning processing unit (MLPU)	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)
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		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
Resolution	1920x1080 HDTV 1080p	Safety	USA: FCC Part 15 Subpart B Class A
Frame rate	Up to 30 fps for 1080p (WDR mode) Up to 60 fps for 1080p Up to 180 fps for 720p	Environment	CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, UN ECE R118 IS 13252 IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14,
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		IEC 60068-2-27, IEC 60068-2-64, IEC TR 60721-4-5 Class 5M 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
	Video streaming indicator	Cybersecurity	
Image settings Audio	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	Edge security	Software: Signed firmware, brute force delay protection, diges authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, passwor protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform
	Two-way, full duplex		Secure element (CC EAL 6+), Axis device ID, secure keystore, signed video, secure boot
Audio encoding	ADPCM 8 KHz, Gpus 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 KHz, Opus 8/16/48 kHz Configurable bit rate	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509
Audio	2x external microphone input or line input, 1x line output, ring		Certificate PKI, host-based firewall
input/output	power, digital audio input	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy
Network 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)		Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
System integra		General	IDOV I
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	Casing	IP3X-rated Aluminum casing Color: black NCS S 9000-N
		Sustainability	PVC free
Event conditions	Device status, digital audio, edge storage, I/O, PTZ, scheduled event, video	Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 10–48 V DC, typical 11 W, max 25.5 W
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	Connectors	RJ45 for 10BASE-T/100BASE-TX/1000BASE-T PoE FAKRA for sensor units 6-pin terminal block for 4x configurable I/Os (12 V DC output), max load 50 mA
Data streaming	Event data		3.5 mm mic/line in, 3.5 mm line out 5-pin terminal block RS232/RS485
Analytics			3-pin terminal block for 10-48 V DC input
AXIS Object Analytics	Object classes: humans, vehicles Scenarios: line crossing, object in area, crossline counting, occupancy in area Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas Perspective configuration ONVIF Motion Alarm event	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)
Applications	Included AXIS Object Analytics 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	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	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

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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 AXIS Companion, AXIS Camera Station, video manageme software from Axis Application Development Partners ava 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

