

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







WWW.CIXIS.COM T10157285/EN/M11.2/2303

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System on chip	(SoC)		Hardware: Secure boot, Axis Edge Vault with Axis device ID,
Model	ARTPEC-7		signed video, secure keystore (CC EAL4+ certified hardware protection of cryptographic operations and keys)
Memory	1024 MB RAM, 512 MB Flash	Network security	IEEE 802.1X (EAP-TLS), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3,
Compute capabilities	Machine learning processing unit (MLPU)	Network security	Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
Video		Documentation	AXIS OS Hardening Guide
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		Axis Vulnerability Management Policy Axis Security Development Model To download documents, go to axis.com/support/cybersecu- rity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
Resolution Frame rate	1920x1080 HDTV 1080p Up to 30 fps for 1080p (WDR mode)		
	Up to 60 fps for 1080p Up to 180 fps for 720p	General	unisconipcyocisccurity
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	Casing	IP3X-rated Aluminum casing Color: black NCS S 9000-N
		Sustainability	PVC free
	VBR/ABR/MBR H.264/H.265 Low latency mode	Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 10–48 V DC, typical 11 W, max 25.5 W
Image settings	Video streaming indicator 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	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 3.5 mm mic/line in, 3.5 mm line out 5-pin terminal block RS232/RS485
Audio Audio streaming	Two-way, full duplex		3-pin terminal block for 10-48 V DC input
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	Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
A !! -	Configurable bit rate	Operating	-40 °C to 60 °C (-40 °F to 140 °F)
Audio input/output	2x external microphone input or line input, 1x line output, ring power, digital audio input	conditions	Maximum temperature according to NEMA TS 2 (2.2.7): 74 $^{\circ}\text{C}$ (165 $^{\circ}\text{F})$
Network Network	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS		Humidity 10–85% RH (non-condensing)
protocols	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, Syslog, Link-Local address (ZeroConf)	Storage conditions Approvals	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
		прриотин	CISPR 24, EN 55032 Class A, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2,
System integration			FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A),
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>		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 (Vibration, Shock), IEC/EN 60529 IP3X, IEC/EN 61373 Category 1 Class B, NEMA TS 2 (2.2.7-2.2.9) Network
	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		NIST SP500-267
Analytics	Object alexans humans vahisles	Dimensions	51 x 120 x 120 mm (2 x 4.7 x 4.7 in)
AXIS Object Analytics	Object classes: humans, vehicles Trigger conditions: line crossing, object in area	Weight	650 g (1.4 lb)
,	Up to 10 scenarios Metadata visualized with color-coded bounding boxes Polygon include/exclude areas	Required hardware	AXIS TU6004-E Cable, AXIS TU6005 Plenum Cable, AXIS F21 Sensor Unit, AXIS F4105-LRE Dome Sensor, AXIS F7225-RE Pinhole Sensor
	Perspective configuration ONVIF Motion Alarm event	Included accessories	Installation guide, Windows® decoder 1-user license
Applications	Included AXIS Object Analytics AXIS Video Motion Detection, audio detection Supported AXIS People Counter, tampering alarm	Optional accessories	AXIS Surveillance Cards TU6001 Connector 3-pin, TU6008 Connector 5-pin, TU6009 Connector 6-pin For more accessories, see axis.com
	Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	Video management	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available
Cybersecurity		software	at axis.com/vms
Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese
	SD card encryption	Warranty	5-year warranty, see axis.com/warranty

