

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
- > Accelerometer, GPS, modbus support
- > Built-in cybersecurity with Axis Edge Vault







AXIS F9111 Main Unit

Memory 1024 Compute capabilities Video Video H.264 Compression 1920 Resolution 1920 Frame rate Up to U	A MB RAM, 512 MB Flash Chine learning processing unit (MLPU) 264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles 265 (MPEG-H Part 2/HEVC) Main Profile 265 (MPEG-H Part 2/HEVC) Main Profile 260 20x1080 HDTV 1080p 16 30 fps for 1080p (WDR mode) 16 30 fps for 1080p (WDR mode) 16 30 fps for 1080p (WDR mode) 17 30 fps for 1080p 18 18 fps for 720p 18 18 fps fps for 1080p 18 18 fps for 720p 18 18 fps	Scene metadata Approvals EMC Safety Environment Network Cybersecurity Cybersecurity Edge security Network security	IS 13252 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
Compute capabilities Video Video Video H.264 Compression H.268 Motion Resolution 1920 Frame rate Up to U	chine learning processing unit (MLPU) 264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles (20x1080 HDTV 1080p) 275 to 30 fps for 1080p (WDR mode) (180 fps for 720p) 286 to 30 fps for 1080p (WDR mode) (180 fps for 720p) 287 to 30 fps for 1080p (WDR mode) (180 fps for 720p) 288 to 40 fps for 720p 288 to 40 fps for 720p 289 to 40 fps for 720p 280 to 40	Approvals EMC Safety Environment Network Cybersecurity Cybersecurity Edge security	Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates Object attributes: confidence, position 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 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, 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
capabilities Video Video Video Resolution Resolution Frame rate Up to Up	164 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles 165 (MPEG-H Part 2/HEVC) Main Profile 165 (MPEG-H Part 2/HEVC) Main Profile 166 (MPEG-H Part 2/HEVC) Main Profile 167 (MPEG-H Part 2/HEVC) Main Profile 168 (MPEG-H Part 2/HEVC) Main Profile 169 (MPEG-H Part 2/HEVC) Main Profile 169 (MPEG-H Part 2/HEVC) Main Profile 169 (MPEG-H Part 2/HEVC) Main Profile 160 (MPEG-H Part 2/HEVC) 160 (MPEG-H Part 2/HEVC) 160 (MPEG-H Part 2/HEVC) 161 (MPEG-H Part 2/HEVC) 162 (MPEG-H Part 2/HEVC) 163 (MPEG-H Part 2/HEVC) 164 (MPEG-H Part 2/HEVC) 165 (MPEG	Approvals EMC Safety Environment Network Cybersecurity Cybersecurity Edge security	trucks, bikes), license plates Object attributes: confidence, position 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 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, IEC 60068-2-7, 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
Video compression H.264 Motic Resolution 1920 Frame rate Up to Up	165 (MPEG-H Part 2/HEVC) Main Profile Ition JPEG 20x1080 HDTV 1080p 1co 30 fps for 1080p (WDR mode) 1co 60 fps for 1080p 1co 180 fps for 720p 10tiple, individually configurable streams in H.264, H.265 and Ition JPEG 10s Zipstream technology in H.264 and H.265 1ction JPEG 10s Zipstream technology in H.264 and	Safety Environment Network Cybersecurity Cybersecurity Edge security	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 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, IEC 60068-2-7, 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
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Frame rate Up to U	to 30 fps for 1080p (WDR mode) to 60 fps for 1080p to 180 fps for 1080p to 180 fps for 720p Iltiple, individually configurable streams in H.264, H.265 and tion JPEG s Zipstream technology in H.264 and H.265 ntrollable frame rate and bandwidth R/ABR/MBR H.264/H.265 v latency mode eo streaming indicator ntrast, brightness, sharpness, Forensic WDR, fixed orientation , white balance, tone mapping, exposure control, exposure nes, compression, rotation: 0°, 90°, 180°, 270°, mirroring, ygon privacy mask, control queue o-way, full duplex bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 PCM 8 kHz, Opus 8/16/48 kHz nfigurable bit rate external microphone input or line input, 1x line output, ring wer, digital audio input 4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS ter 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), psp, RTP, SRTP/RTSPS, TCP, RTCP, DHCP, SSH, SIP, LLDP, CDP, DTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS),	Network Cybersecurity Cybersecurity Edge security	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 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, 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
Video streaming Multi Motic Axis a Control VBR/Low Video Streaming Polyge Audio Audio streaming Two-Audio encoding 24-bit ADPC Confi ADPC Confi AUDIO Audio encoding 24-bit ADPC Confi AUDIO Event System integration Application One-ONVI Event conditions Device event Event actions Play a notifit trap in Data streaming Event	to 60 fps for 1080p to 180 fps for 720p Itiple, individually configurable streams in H.264, H.265 and tion JPEG s z Jipstream technology in H.264 and H.265 Introllable frame rate and bandwidth R/ABR/MBR H.264/H.265 v latency mode eo streaming indicator Intrast, brightness, sharpness, Forensic WDR, fixed orientation, white balance, tone mapping, exposure control, exposure less, compression, rotation: 0°, 90°, 180°, 270°, mirroring, ygon privacy mask, control queue 10-way, full duplex 10-way, full d	Network Cybersecurity Cybersecurity Edge security	Japan: VCCI Class A Korea: KC KN32 Class A, KC KN35 USA: FCC Part 15 Subpart B Class A 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, 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) NIST SP500-267 ETSI EN 303 645 Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
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Audio Audio streaming Two- Audio encoding 24bit ADPC Confi Audio encoding 2x ex input/output power Network IPv4, protocols Layer UPnP RTSP, MQTI Link- System integration Application Open Programming AXIS Interface One-ONVI Event conditions Device event Event actions Play inotifiting trap in the proper in the programming axis one-onto the programming axis of the pro	nes, compression, rotation: 0°, 90°, 180°, 270°, mirroring, ygon privacy mask, control queue o-way, full duplex bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 PCM 8 kHz, Opus 8/16/48 kHz offigurable bit rate external microphone input or line input, 1x line output, ring wer, digital audio input 4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS rer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), prer 3, SMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, pr. RTP, RTP/RTSPS, TCP, RTCP, DHCP, SSH, SIP, LLDP, CDP, ptr v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS),	Cybersecurity Edge security Network security	Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, 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, signed video, secure boot 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 Certificate PKI, host-based firewall AXIS OS Hardening Guide	
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Application		Documentation	Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM)	
Programming Interface ONVI Event conditions Device event Event actions Play a notifit trap in Data streaming Event	1		To download documents, go to axis.com/support/cybersecu- rity/resources	
Event actions Play a notifit trap of Data streaming Event	en API for software integration, including VAPIX® and IS Camera Application Platform; specifications at <i>axis.com</i>		To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
Event conditions Device event Event actions Play anotifit trap of Data streaming Event	e-click cloud connection	General		
Event actions Play notific trap to Data streaming Event	VIF® Profile G and ONVIF® Profile S, specification at <i>onvif.org</i> vice status, digital audio, edge storage, I/O, PTZ, scheduled ent, video	Casing	IP3X-rated Aluminum casing Color: black NCS S 9000-N	
notifit trap (y audio clip, toggle I/O, send images, MQTT publish, send	Sustainability	PVC free	
	ifications, overlay text, power saving mode, recordings, SNMP p messages, status LED, video clips	Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 10–48 V DC, typical 11 W, max 25.5 W	
Analytics	ent data	Connectors	RJ45 for 10BASE-T/100BASE-TX/1000BASE-T PoE	
		Connectors	FAKRA for sensor units	
AXIS AXIS AXIS GPS 0	Included AXIS Object Analytics, 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		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	
2-wir Modb		Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	
Tamp Supp	itch oported npering alarm oport for AXIS Camera Application Platform enabling	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)	
AXIS Object Object Analytics Scena	tallation of third-party applications, see axis.com/acap	Storage	-40 °C to 65 °C (-40 °F to 149 °F)	
	tallation of third-party applications, see axis.com/acap ject classes: humans, vehicles enarios: line crossing, object in area, crossline counting,	conditions	Humidity 5-95% RH (non-condensing)	
Othe	tallation of third-party applications, see axis.com/acap ject classes: humans, vehicles		Humidity 5-95% RH (non-condensing) 51 x 120 x 120 mm (2 x 4.7 x 4.7 in)	

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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 <i>axis.com</i>

Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development 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

