

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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Compute capabilities Video Video Video H.264 (MP Motion JPI Resolution Frame rate Up to 30 f Up to 60 f Up to 180 Video streaming Video streaming Video streaming Video streaming Image settings Contrast, baid, white zones, compolygon proportion of the protocols Audio encoding Audio encoding Audio encoding Audio encoding Network Network Network Network Protocols System integration Application Application Programming Interface One-click on ONVIF® Professional event, video Event actions Data streaming Data streaming Analytics Applications Included AXIS Object AXIS Video AXIS Sense GPS over s Modbus on 2-wire	-7 3 RAM, 512 MB Flash e learning processing unit (MLPU)		Polygon include/exclude areas	
Compute capabilities Video Video Video H.264 (MP Motion JP! Resolution Frame rate Up to 30 f Up to 60 f Up to 180 Video streaming Video streaming Video streaming Multiple, in Motion JP! Axis Zipstr Controllab VBR/ABR/N Low latent Video streaming Audio according Audio encoding Video streaming Audio encoding Audio encoding Audio encoding Audio encoding System integration Application Application Application Application Device starevent, vide Event actions Play audio notificatio trap messa Data streaming AxIS Cames Event data Ancilytics Applications Included AXIS Object AXIS Senses GPS over s Modbus on 2-wire Models on 2-wire Models on Switch			Perspective configuration ONVIF Motion Alarm event	
capabilities Video Video Video H.264 (MP Motion JPI Resolution Frame rate Up to 30 f Up to 60 f Up to 180 Video streaming Multiple, in Motion JPI Axis Zipstr Controllab VBR/ABR/N Low latence Video strea Image settings Contrast, b aid, white zones, com polygon pr Audio Audio streaming Audio encoding Audio 2x externa power, dig Network Network Network Network Network Network Prodyamming Interface Onen API to ONVIF® Pro Event conditions Device star event, vide Event actions Play audio notificatio trap messa Ancilytics Application Application Data streaming AxIS Object AXIS	Jearning processing unit (MLPH)	Scene metadata	Object classes: humans, faces, vehicles (types: cars, buses,	
Network	rearning processing unit (with 0)	Jeene metaaata	Object classes. Idinais, faces, venicles (types. cars, buses, trucks, bikes), license plates Object attributes: confidence, position	
compression H.265 (MP Motion JPI Resolution 1920x1080 Frame rate Up to 30 f Up to 60 f Up to 180 Video streaming Multiple, in Motion JPI Axis Zipstr Controllab VBR/ABR/N Low latent Video streaming Two-way, 1 aid, white zones, compolygon proportion of the protection of the protectio		Approvals		
Frame rate Up to 30 f Up to 60 f Up to 180 Video streaming Multiple, in Motion JPI Axis Zipstr Controllab VBR/ABR/N Low latency Video street Image settings Contrast, b aid, white zones, com polygon pr Audio Audio streaming Audio encoding Audio encoding Audio 2x externa input/output Profix Network Network Protocols IPv4, IPv6 Layer 3 Dit UPnP* SN RTSP, RTP, MOTT v3.1 Link-Local System integration Application Programming Interface Onv-Click ONVIF® Pr Event conditions Device star event, vide Event actions Play audio notificatio trap messa Data streaming AXIS Canes Event data Ancilytics Applications Included AXIS Object AXIS Video AXIS Object AXIS Video AXIS Sense GPS over s Modbus on 2-wire Modobus on Switch	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles EMC CISPR 24, EN 55032 Class A, EN 55035, EN 61		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 streaming Multiple, in Motion JPI Axis Zipstr Controllab VBR/ABR/N Low latent Video streaming Video streaming Audio Audio Streaming Two-way, if Audio encoding Audio encoding Audio encoding Audio encoding Audio encoding Configurat Audio 2x externa input/output power, dig Network Protocols Programming Layer 3 Dit UPnP*, SN RTSP, RTP, MOTT v3.1 Link-Local System integration AXIS Canes OnVIF* Programming Interface OnvIF* Programming Interface Programming Cone-click ONVIF* Programming Interface Data streaming Event data Analytics Applications Included AXIS Object AXIS Video AXIS Sense GPS over s Modbus on 2-wire Modbus on switch on witch	080 HDTV 1080p		Australia/New Zealand: RCM AS/NZS CISPR 32 Class A	
Motion JPI Axis Zipstr Controllab VBR/ABR/L Low latend Video strest Image settings Contrast, to aid, white zones, compolygon propolygon pr	p to 30 fps for 1080p (WDR mode) p to 60 fps for 1080p p to 180 fps for 720p		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	
Controllab VBR/ABR/N Low latency Video stream	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265	Safety	CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, UN ECE R118 IS 13252	
aid, white zones, compolygon pr Audio Audio streaming Two-way, 5 Audio encoding 24bit LPCN ADPCM 8 Configurate 24 Configurate 25 Configurate 25 Configurate 25 Configurate 26 Configura	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Low latency mode Video streaming indicator		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)	
Audio streaming Two-way, 1 Audio encoding 24bit LPCN ADPCM 8 Configurate Configurate Protocols Protocols Protocols Protocols Protocols Protocols Programming Programming Interface ONVIF® Protocols	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	Network	NIST SP500-267	
Audio streaming Two-way, 1 Audio encoding 24bit LPCM ADPCM 8 Configurat Audio 2x externa input/output power, dig Network Network IPv4, IPv6 Layer 3 Dit UPnP®, SNI RTSP, RTP, MOTT v3.1 Link-Local System integration Application Programming Interface ONVIF® Pro Event conditions Device starevent, vide Event actions Play audio notification trap messa Data streaming Event data Ancilytics Applications Included AXIS Censes GPS over s Modbus on 2-wire Modbus on switch		Cybersecurity	ETSI EN 303 645	
Audio Audio streaming Two-way, 1 Audio encoding 24bit LPCN ADPCM 8 Configurat Audio 2x externa power, dig Network Network IPv4, IPv6 Layer 3 Dit UPnP*, SN, RTSP, RTP, MQTT v3.1 Link-Local System integration Application Open API of AXIS Came Onverlick on NVIP* Pro Event conditions Device starevent, vide Event actions Play audio notification trap messa Data streaming Event data Analytics Applications Included AXIS Object AXIS Senses GPS over s Modbus on 2-wire Modobus on switch		Cybersecurity		
Audio encoding Audio encoding Audio encoding Audio Aud	process meeting extracting and the second	Edge security	Software: Signed firmware, brute force delay protection, digest	
Audio encoding 24bit LPCM ADPCM 8 Configurate 2x externa power, dig Network Network Protocols 1Pv4, IPv6, Layer 3 Dit UPnP* S,N RTSP, RTP, MQTT v3.1 Link-Local 2ystem integration Application Open API of AXIS Came Once-click ONVIF® Protocols 1Pv2 Programming Once-click ONVIF® Protocols 2vent, vide 2vent, vide 2vent, vide 2vent, vide 2vent actions Play audio notification trap messa 2vent AXIS Censes APPlications Included AXIS Object AXIS Video AXIS Senses GPS over s Modbus on 2-wire Modobus on switch	y, full duplex		authentication and OAuth 2.0 RFC6749 OpenID Authorization	
input/output power, dig Network Network Prot, IPv4, IPv6, Layer 3 Dit UPnP*, SN, RTSP, RTP, MOTT v3.1 Link-Local System integration Application Open API of AXIS Came One-click of ONVIF*® Professionations Event conditions Device starevent, vide Event actions Play audio notification trap messar Data streaming Event data Ancilytics Applications Included AXIS Object AXIS Sideo AXIS Sense GPS over s Modbus on 2-wire Modbus on switch	CM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 8 kHz, Opus 8/16/48 kHz rable bit rate		Code Flow for centralized ADFS account management, passwo protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore,	
Network IPv4, IPv6 Layer 3 Dit UPnP*, SN RTSP, RTP, MQTT v3.1 Link-local	nal microphone input or line input, 1x line output, ring		signed video, secure boot	
Network IPv4, IPv6 Layer 3 Dit UPnP®, SN RTSP, RTP, MQTT v3.1 Link-Local	ligital audio input	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR,	
UPnP®, SN RTSP, RTP, MQTT v3.1 Link-Local System integration Application	6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour),		HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.508 Certificate PKI, host-based firewall	
Application Programming Interface One-click on ONVIF® Profession Event conditions Event actions Data streaming Data streaming Analytics Applications Included AXIS Object AXIS Video AXIS Sense GPS over s Modbus ov 2-wire Modbus ov switch	NIMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, P, SRTP/RTSPS, TCP, RTCP, DHCP, SSH, SIP, LLDP, CDP, B.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), al address (ZeroConf)	Documentation	AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM)	
Programming Interface One-click on One-click			To download documents, go to axis.com/support/cybersecu- rity/resources	
ONVIF® Pro Event conditions Device starevent, vide Event actions Play audionotification trap messa Data streaming Event data Ancilytics Applications Included AXIS Object AXIS Video AXIS Senses GPS over s Modbus on 2-wire Modobus on switch	PI for software integration, including VAPIX® and mera Application Platform; specifications at axis.com		To read more about Axis cybersecurity support, go to axis.com/cybersecurity	
Event conditions Device star event, vide Event actions Play audio notificatio trap messa Data streaming Event data Analytics Included AXIS Object AXIS Sense GPS over s Modbus on 2-wire Modbus on switch	k cloud connection	General		
Event actions Play audio notificatio trap messa Data streaming Event data Analytics Applications Included AXIS Object AXIS Video AXIS Senso GPS over s Modbus ov 2-wire Modbus ov switch	Profile G and ONVIF® Profile S, specification at <i>onvif.org</i> tatus, digital audio, edge storage, I/O, PTZ, scheduled	Casing	IP3X-rated Aluminum casing Color: black NCS S 9000-N	
Data streaming Event data Analytics Applications Included AXIS Object AXIS Video AXIS Sensor GPS over s Modbus ov 2-wire Modbus ov switch	lio clip, toggle I/O, send images, MQTT publish, send	Sustainability	PVC free	
Analytics Applications Included AXIS Object AXIS Video AXIS Sensor GPS over s Modbus ov 2-wire Modbus ov switch	io Cip, toggie 170, send images, MQTT publish, send ions, overlay text, power saving mode, recordings, SNMP ssages, status LED, video clips	Sustainability Power	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4	
Applications Included AXIS Object AXIS Video AXIS Senso GPS over s Modbus ov 2-wire Modbus ov switch	ıta		10–48 V DC, typical 11 W, max 25.5 W	
Applications Included AXIS Object AXIS Video AXIS Senso GPS over s Modbus ov 2-wire Modbus ov switch		Connectors	RJ45 for 10BASE-T/100BASE-TX/1000BASE-T PoE FAKRA for sensor units	
2-wire Modbus ov switch	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	
		Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	
Tampering Support fo		Operating conditions	$^-40~^\circ\text{C}$ to 60 $^\circ\text{C}$ (-40 $^\circ\text{F}$ to 140 $^\circ\text{F})$ Maximum temperature according to NEMA TS 2 (2.2.7): 74 $^\circ\text{C}$ (165 $^\circ\text{F})$ Humidity 10–95% RH (non-condensing)	
AXIS Object Object cla Analytics Scenarios:	over IP: Protocol: Modbus TCP, Port mode: Ethernet on		-40 °C to 65 °C (-40 °F to 149 °F)	
occupancy Up to 10 s	over IP: Protocol: Modbus TCP, Port mode: Ethernet on ed ng alarm for AXIS Camera Application Platform enabling ion of third-party applications, see axis.com/acap classes: humans, vehicles os: line crossing, object in area, crossline counting,	Storage conditions	Humidity 5-95% RH (non-condensing)	
Other feat	over IP: Protocol: Modbus TCP, Port mode: Ethernet on ed ng alarm for AXIS Camera Application Platform enabling ion of third-party applications, see axis.com/acap elasses: humans, vehicles size line crossing, object in area, crossline counting, cy in area		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		
Included accessories	Installation guide, Windows® decoder 1-user license	
Optional accessories	AXIS Surveillance Cards TU6001 Connector 3-pin, TU6008 Connector 5-pin, TU600 Connector 6-pin For more accessories, see axis.com	

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

