

# AXIS I8016-LVE Network Video Intercom

Compact and robust video intercom

AXIS I8016-LVE Network Video Intercom is a compact and highly robust network intercom designed for two-way communication, video identification, and remote entry control. It offers 5 MP resolution with invisible IR night vision, and exceptional audio volume with echo and noise cancellation to ensure reliable 24/7 identification even in the most demanding situations. Based on open IP standards and interfaces, this network intercom offers great integration possibilities and is a perfect complement to any video surveillance system. Furthermore, it features multiple inputs and outputs for remote control of door locks and other equipment.

- > **High-quality audio and video**
- > **Easy installation with PoE**
- > **Open interface with IP phone integration, SIP support**
- > **Anti-ligature, vandal-resistant IK10-rated**
- > **IP66/IP69-rated with wall-mount**



# AXIS I8016-LVE Network Video Intercom

<b>Camera</b>		
Image sensor	1/2.7" progressive scan RGB CMOS	
Lens	1.95 mm, F2.2 Horizontal field of view: 150° Vertical field of view: 117° M12 mount, fixed iris	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.16 lux at 50 IRE, F2.2 B/W: 0.00 lux at 50 IRE, F2.2, with IR illumination on	
Shutter speed	1/50000 s to 1/5 s	
<b>System on chip (SoC)</b>		
Model	ARTPEC-7	
Memory	2048 MB RAM, 512 MB Flash	
<b>Video</b>		
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	
Resolution	2592x1944 240x160	
Frame rate	Up to 30/25 fps (60/50 Hz) in all resolutions	
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 Video streaming indicator	
Image settings	Saturation, contrast, brightness, sharpness, forensic WDR: up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, defogging, compression, text and image overlay, polygon privacy mask	
<b>Audio</b>		
Audio streaming	Two-way, full duplex Echo cancellation and noise reduction	
Audio encoding	24bit LPCM, AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16 kHz Configurable bit rate	
Audio input/output	Line input, line output, built-in microphone (can be disabled), built-in speaker, automatic gain control Built-in speaker 78 dB sound pressure at 1 kHz at 1 m distance (84 dB at 0.5 m / 20 in)	
<b>Network</b>		
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, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SSH, NTCIP, SIP, LLDP, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	
<b>System integration</b>		
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="https://axis.com">axis.com</a> One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <a href="https://onvif.org">onvif.org</a>	
VoIP	Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX Tested with various SIP software such as Cisco, Bria and Grandstream Tested with various PBX softwares such as Cisco, Avaya and Asterisk Supported SIP features: secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN), Contact list, parallel call forking, sequential call forking Supported codecs: PCMU, PCMA, opus, L16/16000, L16/8000, speex/8000, speex/16000, G.726-32, G.722	
Event triggers	Analytics, external input, edge storage events, virtual inputs through API Call: DTMF, state, state changes	
		Detectors: audio detection, live stream accessed, shock detection, tampering, motion alarm Hardware: Casing open, temperature, relays and outputs, network Input Signal: digital input port, manual trigger, virtual inputs MQTT subscribe Storage: disruption, recording System: system ready Time: recurrence, use schedule PTZ: moving, preset reached
Event actions	Axis door control Make call: SIP, API Terminate call: SIP, API Record video and audio: SD card and network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share, and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS and TCP External output activation, play audio clip, overlay text, PTZ controls, status LED, WDR mode MQTT publish	
Data streaming	Event data	
<b>Analytics</b>		
Applications	Included AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="https://axis.com/acap">axis.com/acap</a>	
<b>Approvals</b>		
EMC	EN 50121-4, EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, IEC 62236-4 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	
Safety	CAN/CSA-C22.2 No. 60950-22, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, IEC/EN/UL 60950-22, IEC 62471	
Environment	IEC 60068-2-27, IEC 60068-2-6, IEC/EN 60529 IP66/IP69, IEC/EN 62262 IK10, NEMA 250 Type 4X	
Network	NIST SP500-267	
Cybersecurity	ETSI EN 303 645, FIPS 140	
<b>Cybersecurity</b>		
Edge 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 TPM 2.0 (CC EAL4+, FIPS 140-2 Level 2), secure element (CC EAL 6+), Axis device ID, secure boot	
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 Certificate PKI, host-based firewall	
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 <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>	
<b>General</b>		
Casing	Anti-ligature, IP66/IP69-, NEMA 4X- and IK10-rated Stainless steel, zinc, and plastic casing Color: black NCS S 9000-N For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner. This product can be repainted	
Sustainability	PVC free	

<b>Mounting</b>	Recessed mounting using US 2-Gang-, 4 inch square installation boxes or AXIS T18202 Recessed Mount Wall Mounting using AXIS T18602 Wall Mount Wall Mounting with conduit pipe using AXIS T18602 Wall Mount and AXIS T18603 Conduit Adapter	<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.7 W, max 12.7 W Relay rating: 30 V, 0.7 A	<b>Dimensions</b>	Height: 124 mm (4.9 in) Width: 124 mm (4.9 in)
<b>Connectors</b>	Shielded RJ45 10BASE-T/100BASE-TX PoE I/O: 6-pin terminal block for 2 inputs/outputs, +12 V 400 mA supply, and 1 relay 4-pin terminal block for audio input and output	<b>Weight</b>	900 g (2.0 lb)
<b>IR illumination</b>	Power-efficient, long-life 940 nm IR LEDs Range of reach 5 m (16 ft) or more depending on the scene	<b>Included accessories</b>	Installation guide, Windows® decoder 1-user license, terminal block connector, Allen key (Resitorx 10)
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <a href="http://axis.com">axis.com</a>	<b>Optional accessories</b>	AXIS T18202 Recessed Mount AXIS T18602 Wall Mount AXIS T18603 Conduit Adapter AXIS T18902 Glass Replacement Kit AXIS T18901 Face Plate Replacement AXIS A9801 Security Relay For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Operating conditions</b>	-40 °C to 60 °C (-40 °F to 140 °F) Start-up temperature: -40 °C (-40 °F) Humidity 10–100% RH (condensing)	<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis Application Development Partners available at <a href="http://axis.com/vms">axis.com/vms</a>
		<b>Languages</b>	English, German, French, Spanish, Italian
		<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>