

AXIS I8307-VE Network Intercom

Multifunctional device with interactive display

AXIS I8307-VE offers high-quality two-way video for enhanced communication. A fully featured 4K camera delivers outstanding details and the screen's background and buttons can be customized. Robust and vandal-resistant, it offers flexible installation and can be mounted on walls, poles, recessed, or using a conduit mount. It integrates seamlessly with your VMS and supports SIP as well as open programming interfaces including VAPIX and ONVIF. Additionally, the integrated access control reader (RFID) makes it easy to integrate with other access control systems. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and offers FIPS 140-3 Level 3 certified secure key storage.

- > **Fully featured 4K camera**
- > **Integrated RFID reader with keypad**
- > **Customizable touch screen**
- > **Vandal-resistant IP66/IK08-rated device**
- > **Built-in cybersecurity with Axis Edge Vault**



SIP

AXIS I8307-VE Network Intercom

Camera

Image sensor

1/1.8" progressive scan RGB CMOS
Pixel size 2 µm

Lens

2.2 mm, F1.8
Horizontal field of view: 150°
Vertical field of view: 112°
Fixed focus, fixed iris

Minimum illumination

0.04 lux at 50 IRE, F1.8

Shutter speed

1/125000 s to 2 s with 50/60 Hz

System on chip (SoC)

Model

ARTPEC-8

Memory

4 GB RAM, 8 GB Flash

Compute capabilities

Deep learning processing unit (DLPU)

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

Resolution

16:9: 3840x2160 to 160x90
16:10: 2560x1600 to 160x100
4:3: 2880x2160 to 160x120

Frame rate

With Forensic WDR: Up to 25/30 fps (50/60 Hz) in all resolutions
WDR off: Up to 50/60 fps (50/60 Hz) in all resolutions

Video streaming

Up to 20 unique and configurable video streams¹
Axis Zipstream technology in H.264 and H.265
Controllable frame rate and bandwidth
VBR/ABR/MBR H.264/H.265
Video streaming indicator

Signal-to-noise ratio

>55 dB

WDR

Forensic WDR: Up to 120 dB depending on scene

Image settings

Saturation, contrast, brightness, sharpness, white balance, local contrast, tone mapping, exposure mode, exposure zones, defog, compression, roll, mirroring, dynamic text and image overlay, privacy masks.

Image processing

Axis Zipstream, Forensic WDR

Pan/Tilt/Zoom

Digital PTZ

Audio

Features

Echo cancellation, noise reduction, beamforming

Streaming

Two-way (full duplex)

Input

Unbalanced line input, 2x built-in microphones (can be disabled)

Output

Line output, built-in speaker
T-coil
Max 85 dBSPL (at 1 m / 39 in)

Encoding

LPCM 16 kHz, AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16 kHz
Configurable bitrate

1. We recommend a maximum of 3 unique video streams per camera or channel, for optimized user experience, network bandwidth, and storage utilization. A unique video stream can be served to many video clients in the network using multicast or unicast transport method via built-in stream reuse functionality.

Lock control

Lock integration

Integration with AXIS A9801 Security Relay: 350 mA at 12 V DC

Integration with Axis network door controllers:
maximum current/voltage: 0.7 A at 30 V

RFID reader

Entry authentication

Card, tag, PIN, door code

Integrated entry list with up to 50 credentials

Alarm status indication

User feedback for access granted, access denied, keypad, armed, disarmed.

Network protocols

RS485 (OSDP), Wiegand, VAPIX® reader interface

Reader technology

Generic 13.56 MHz (MIFARE Classic®, MIFARE Plus® (level 1), MIFARE DESFire® EV2 and EV3, HID® iCLASS®, HID® iCLASS SE®, HID® Seos®). Proximity 125 kHz (HID® Prox, EM-42xx, ISOProx II)

Accessibility

Hearing loop

T-coil 4 W Class D amplifier

User feedback

Interactive 7" touch display with illuminated RFID symbol and audible feedback

Tampering

Detection type

Tamper switch, accelerometer (shock detection), video tampering

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS², HTTP/2, TLS², QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

System integration

Application Programming Interface

Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK and Computer Vision SDK.

One-click cloud connection

ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specifications at onvif.org

VoIP

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX

Supported SIP features: secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC 733 and RFC 833), NAT (ICE, STUN, TURN)

RFC 3261: INVITE, CANCEL, BYE, REGISTER, OPTIONS, INFO

Supported codecs: PCMU, PCMA, Opus, L16/16000, L16/8000, speex/8000, speex/16000, G.726-32, G.722

Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, and video management software from Axis' partners available at axis.com/vms.

Onscreen controls

Privacy masks

Media clip

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).

Event conditions

Application

Audio: audio detection, audio clip playing

Call: DTMF, state, state change

Device status: above/below/within operating temperature, casing open, IP address blocked/removed, live stream active, network lost, new IP address, PIR sensor, RFID tag detected, shock detected, system ready
Display: button clicked

Edge storage: recording ongoing, storage disruption, storage health issues detected

Entry list: access granted/denied, custom

I/O: digital input, manual trigger, virtual input

MQTT: stateless

PTZ: PTZ control queue, PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready

Scheduled and recurring: schedule

Video: average bitrate degradation, tampering

Event actions

Audio clips: play, stop

Calls: answer call, end SIP call, make SIP call

Display: close page, show page

Guard tour

I/O: toggle I/O once, toggle I/O while the rule is active

LEDs: flash status LED, flash status LED while the rule is active

MQTT: publish

Notification: HTTP, HTTPS, TCP and email

Overlay text

PTZ: PTZ preset, start/stop guard tour

Pre- and post-alarm video or image buffering for recording or upload

Recordings: SD card and network share

Security: erase configuration

SNMP traps: send, send while the rule is active

Images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email

WDR mode

Built-in installation aids

Pixel counter, level grid, digital roll

Functional monitoring

Auto Speaker Test (verification via built-in microphone)

Analytics

Applications

Included

AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection, AXIS Barcode Reader

Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

AXIS Object Analytics

Object classes: humans, vehicles (types: cars, buses, trucks, bikes, other)

Scenarios: line crossing, object in area, time in area, crossline counting, occupancy in area, motion in area, motion line crossing

Up to 10 scenarios

Other features: triggered objects visualized with trajectories, color-coded bounding boxes and tables

Polygon include/exclude areas

Perspective configuration

ONVIF Motion Alarm event

AXIS Scene Metadata

Object classes: humans, faces, vehicles (types: cars, buses, trucks, bikes), license plates

Object attributes: vehicle color, upper/lower clothing color, confidence, position

Approvals

Product markings

UL/cUL, CE

Supply chain

TAA compliant

EMC

CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2

Canada: ICES(A)/NMB(A)

USA: FCC Part 15 Subpart B Class A

Safety

IEC/EN 62368-1 ed. 3

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK08, NEMA 250 Type 4X

Wireless

RSS-247, RSS-Gen, EN 300422-4, EN 300330, EN 303348, EN 301489-1, EN 301489-3, FCC Part 15 Subpart C

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS 140, EN 18031-1

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC 6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140-2 level 1)

Hardware: Axis Edge Vault cybersecurity platform
Secure keystore: secure element (CC EAL 6+, FIPS 140-3 Level 3), system-on-chip security (TEE)
Axis device ID, signed video, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)³, HTTPS/HSTS³, TLS v1.2/v1.3³, Network Time Security (NTS)

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 axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Display

7-inch capacitive touch display
Resolution: 800x480

Casing

IP66-, NEMA 4X-rated, IK08 impact- and scratch-resistant glass

Aluminum casing

Color: black NCS S 9000-N

For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.

Mounting

Wall, recessed, conduit (with adapter), or pole mounting

Power

Power in:

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, or Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4, or 18–28 V DC min. 25 W

Power consumption: typical 7 W, max 25 W

Power out:

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3: 24 V/0.05 A or 12 V/0.1 A

Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4, or 18–28 V DC: 24 V/0.3 A or 12 V/0.6 A

Relay rating: 30 V, 1 A

Connectors

Network: RJ45 10BASE-T/100BASE-TX PoE

I/O: 6-pin 2.5 mm terminal block for 4 alarm inputs/outputs

Audio: line in, line out, terminal block

Serial communication: RS485/Wiegand, terminal block

Power: DC input, terminal block

2 relays

Storage

Support for microSD/microSDHC/microSDXC card

Recording to network-attached storage (NAS)

For SD card and NAS recommendations see axis.com

PIR sensor

Passive infrared (PIR) motion sensor

Operating conditions

Temperature: -30 °C to 55 °C (-22 °F to 131 °F)

Humidity: 10–100% RH (condensing)

Storage conditions

Temperature: -40 °C to 65 °C (-40 °F to 149 °F)

Humidity: 5–95% RH (non-condensing)

Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

Effective Projected Area (EPA): 0.042 m² (0.45 ft²)

Weight

2069 g (4.6 lb)

Box content

Intercom, installation guide, terminal block connector kit, grounding screw, connector guard, cable gaskets, owner authentication key

3. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).

Optional accessories

AXIS TI8205 Recessed Mount, AXIS TI8604 Conduit Adapter 3/4 NPS, AXIS TI8909 Protection Cover, AXIS A9801 Security Relay, AXIS 30 W Midspan
For more accessories, go to axis.com/products/axis-i8307-ve#accessories

System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator
Available at axis.com

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

Part numbers

Available at axis.com/products/axis-i8307-ve#part-numbers

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709
RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

Renewable carbon-based plastic content: 53%
(recycled: 31%, bio-based: 22%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

Environmental responsibility

axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Dimension drawing

