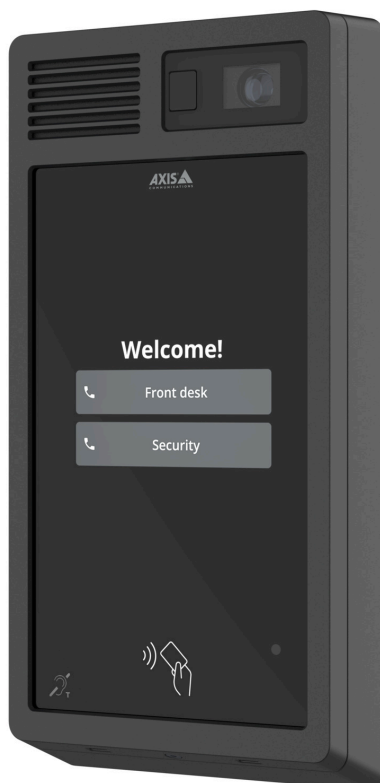# AXIS I8307-VE Network Intercom

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

ONVIF® | GMST

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 streams[1]
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

Audio features
Echo cancellation, noise reduction, beamforming

Audio streaming
Two-way (full duplex)

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

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

Audio 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

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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, HTTPS[2], HTTP/2, TLS[2], 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, 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*
Support for Voice over IP (VoIP) through the Session Initiation Protocol (SIP), using peer-to-peer (P2P) or Private Branch Exchange (PBX).

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

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

Analytics

Applications
Included
AXIS Object Analytics, AXIS Scene Metadata, AXIS Video Motion Detection
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

Cybersecurity

Edge security
Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 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/HSTS[3], TLS v1.2/v1.3[3], Network Time Security (NTS)

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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 (eay@cryptsoft.com).

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 m^2 (0.45 ft^2)

Weight
2069 g (4.6 lb)

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

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*

AXIS I8307-VE Network Video Intercom

Dimensions in mm [inch]

Date	Version	Scale
2025 Jan-03	M1.1	1:4
Drawing Number	Size	Sheet
3227239	A3	1(1)

44 [1.74]

290 [11.4]

144 [5.7]

257,4 [10.1]

257,3 [10.1]

214,5 [8.4]

54,2 [2.1]

62 [2.4]

120,9 [4.8]

⌀ 7 [0.3] (4x)

⌀ 6,1 [0.2] (4x)

⌀ 5,1 [0.2] (4x)