AXIS D4200-VE Network Strobe Speaker

Powerful all-in-one strobe and speaker

This multi-purpose audio-visual signaling device includes strobe lights and a speaker. It allows for customized prerecorded or live audio, alarm sounds, visual communication, or a combination of all of these. It supports AXIS Audio Manager enabling zone management, and the possibility to schedule content and provide it where needed. With support for AXIS Audio Analytics, it can detect sounds and trigger alerts. This outdoor-ready device offers cost-efficient installation, configuration, and maintenance. Through VAPIX, SIP, MQTT, or I/Os, there's numerous integration possibilities. And scheduled health checks reduce costs. Furthermore, it can forward power to other devices with PoE class 4.

> **Multiple LED colors and custom audio**
> **Built-in speaker with two-way audio**
> **AXIS Audio Manager support**
> **PoE out to power additional devices**
> **IP66-, NEMA 4X- and IK09-rated**

SIP

FIPS 140-3™

FIPS-3 Inside 4679

AXIS D4200-VE Network Strobe Speaker

Light

Illumination LED
Red, green, blue, amber, white, pink, purple, turquoise, yellow
Max 732 lm (PoE Class 4)/190 lm (PoE Class 3)

Audio hardware

Enclosure
3 inch coaxial dynamic cone speaker in sealed enclosure

Max sound pressure level
102 dB

Frequency response
365 Hz - 14 kHz

Coverage pattern
140° coaxial

Audio input/output
Built-in microphone (can be disabled)
Built-in speaker
External microphone, line in

Built-in microphone specification
20 Hz - 20 kHz

Amplifier description
Built-in 7 W Class D amplifier

Digital signal processing
Built-in and pre-configured

Audio management

AXIS Audio Manager Edge
Built in:
– Zone management allowing you to divide up to 200 speakers into 20 zones.
– Content management for music and live/pre-recorded announcements.
– Scheduling to decide when and where to play content.
– Content prioritization to ensure urgent messages interrupt the schedule.
– Health monitoring for remote discovery of system errors.
– User management to control who has access to what features.
For more details, see the datasheet on *axis.com/products/axis-audio-manager-edge/support*

AXIS Audio Manager Pro
Compatible with AXIS Audio Manager Pro 4.8 or later
For larger and more advanced systems. Sold separately.
See separate datasheet for specifications.
For specifications, see the datasheet on *axis.com/products/axis-audio-manager-pro/support*

AXIS Audio Manager Center
AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems.
For specifications, see the datasheet on *axis.com/products/axis-audio-manager-center/support*

Audio software

Audio streaming
Configurable duplex: two-way (full duplex)
Echo cancellation (half duplex)

Audio encoding
AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis μ-law 16 kHz, WAV,
MP3 in mono/stereo from 64 kbps to 320 kbps.
Constant and variable bit rate.
Sampling rate from 8 kHz up to 48 kHz.
Opus

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*
One-click cloud connection

Video management systems
Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at *axis.com/vms.*

Mass notification
Singlewire InformaCast®, Intrado Revolution, Lynx, Alertus

Unified communication
Verified compatibility:
SIP clients: 2N, Yealink, Cisco, Linphone, Grandstream
PBX/SIP servers: Cisco Call Manager, Cisco BroadWorks, Avaya, Asterix, Grandstream
Cloud service providers: Webex, Zoom

SIP
Supported SIP features: Secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN)
RFC 3261: INVITE, CANCEL, BYE, REGISTER, OPTIONS, INFO
DTMF (RFC 4733/RFC 2833)

Event conditions
Audio: audio clip playing, speaker test result
Call: DTMF, state, state change
Device status: above/below/within operating temperature, casing open, IP address blocked, IP address removed, live stream active, network lost, new IP address, ring power overcurrent protection, system ready, within operating temperature
Digital audio: signal status
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: digital input, manual trigger, virtual input
Light and siren: health status
MQTT: client connected, stateless
Scheduled and recurring: schedule

Event actions
Audio: run automatic speaker test
Audio clips: play, stop
Call: SIP calls
I/O: toggle
LEDs: flash status
Light and siren: run, stop, run health check
MQTT: publish
Notification: HTTP, HTTPS, TCP and email
Recordings: record audio
Security: erase configuration
SNMP traps: send

Functional monitoring
Speaker test (verification through built-in microphone)

Analytics

Applications
Included
AXIS Audio Analytics
Supported
Support for AXIS Camera Application Platform enabling installation of third-party applications, see *axis.com/acap*

AXIS Audio Analytics
Features: adaptive audio detection, audio classification
Audio classes: scream, shout, glass break, speech
Event metadata: audio detections, classifications

Approvals

Product markings
UL/cUL, CE, KC, VCCI, RCM

Supply chain
TAA compliant

EMC
CISPR 32 Class A, CISPR 35, EN 55035, EN 55032 Class A, EN 50121-4, EN 50130-4, EN 61000-6-1, EN 61000-6-2
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES(A)/NMB(A)
Japan: VCCI Class A
Korea: KS C 9835, KS C 9832 Class A
USA: FCC Part 15 Subpart B Class A
Railway: IEC 62236-4

Safety
CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group 1

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 IK09, NEMA 250 Type 4X, MIL-STD-810H (Method 501.7, 502.7, 506.6, 507.6)

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, BSI IT Security Label, FIPS 140

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[1], HTTP/2, TLS[1], QoS Layer 3 DiffServ, 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)

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 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 EAL6+, FIPS 140-3 Level 3), system-on-chip security (TEE)
Axis device ID, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[1], IEEE 802.1AR, HTTPS/HSTS[1], TLS v1.2/v1.3[1], 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 *axis.com/support/cybersecurity/resources*
To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

1. *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).*

System on chip (SoC)

Model

i.MX 8M Nano

Memory

1 GB RAM, 1 GB Flash

General

Casing

IP66-, NEMA 4X- and IK09-rated
Aluminum and plastic casing
Color: white NCS S 1002-B

Mounting

Mounting bracket with junction box holes (double-gang, single-gang, 4" square junction box and 4" octagon) and for wall or ceiling mount
¾" (M25) conduit side entry

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4, typical 3.55 W, max 25.5 W
Power over Ethernet (PoE) IEEE 802.3bt Type 3 Class 6 (max 51 W) required for PoE out
Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 (30 W) to a second device
Features: power meter

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE,
Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power an external PoE device
I/O: 4-pin 2.5 mm terminal block for two configurable supervised inputs/digital outputs (12 V DC output, max load 50 mA)
Audio: 3.5 mm mic/line in

Storage

Support for microSD/microSDHC/microSDXC card
Support for SD card encryption (AES-XTS-Plain64 256bit)
Recording to network-attached storage (NAS)
For SD card and NAS recommendations see *axis.com*

Operating conditions

Temperature: -40 °C to 55 °C (-40 °F to 122 °F)
Maximum temperature (intermittent): 60 °C (140 °F)
Start-up temperature: -40 °C
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.

Weight
1500 g (3.3 lb)

Box content
Network strobe speaker, installation guide, terminal block connector, connector guard, cable gaskets, owner authentication key

Optional accessories
AXIS TD4301-E Angle Mount
AXIS TD4802-E Weathershield
AXIS Surveillance Cards
For more accessories, go to *axis.com/products/axis-d4200-ve#accessories*

System tools
AXIS Site Designer, AXIS Device Manager, product selector, accessory selector
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-d4200-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*
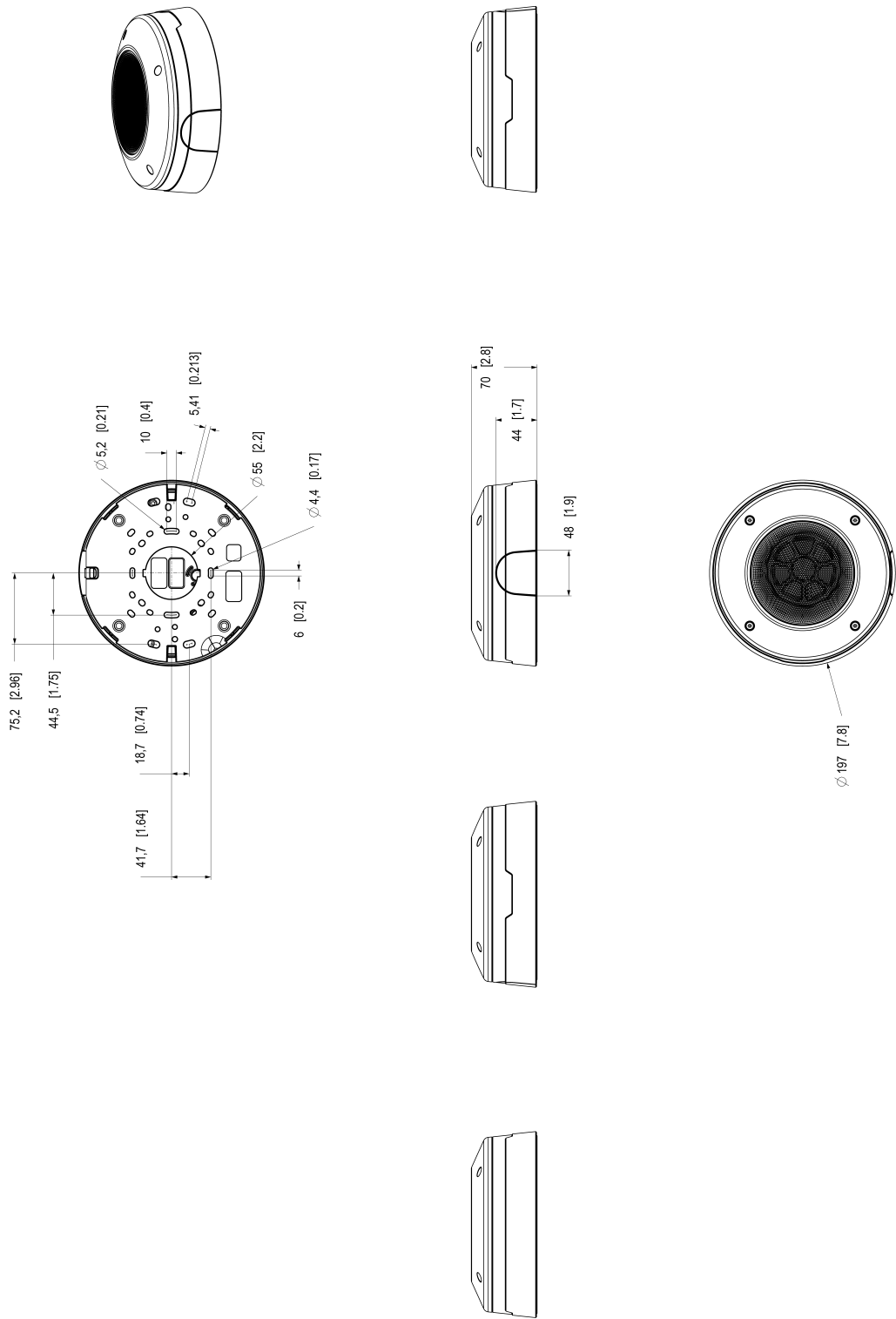
Materials
Renewable carbon-based plastic content: 65% (bio-based: 53%, carbon capture based: 12%)
Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to *axis.com/about-axis/sustainability*

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

Dimension drawing

AXIS D4200-VE Network Strobe Speaker

75,2 [2.96]
44,5 [1.75]
18,7 [0.74]
41,7 [1.64]

⌀ 5,2 [0.21]
10 [0.4]
5,41 [0.213]
⌀ 55 [2.2]
⌀ 4,4 [0.17]
6 [0.2]

70 [2.8]
44 [1.7]
48 [1.9]

⌀ 197 [7.8]

Dimensions in mm [inch]
2024-Sep-19
3108172
M1:3
A1
1(1)

Highlighted capabilities

AXIS Audio Analytics

AXIS Audio Analytics uses adaptive audio detection to generate alarms on sudden increases in sound volume. With AI-based classifiers, it can detect screaming and shouting. You can also get extra confirmation by combining AXIS Audio Analytics with video analytics. This smart application only transmits metadata, ensuring privacy is safeguarded. A core feature of AXIS OS, AXIS Audio Analytics comes preinstalled at no extra cost.

AXIS Audio Manager Edge

AXIS Audio Manager Edge is a software management system that comes embedded in Axis network speakers. It lets you manage and control your local site audio system. AXIS Audio Manager Edge is suitable for small to medium sites with relatively straightforward needs.

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, **secure boot** ensures that a device can boot only with **signed OS**, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the **secure keystore** is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

To read more about Axis Edge Vault, go to *axis. com/ solutions/edge-vault.*

For more information, see *axis.com/glossary*

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