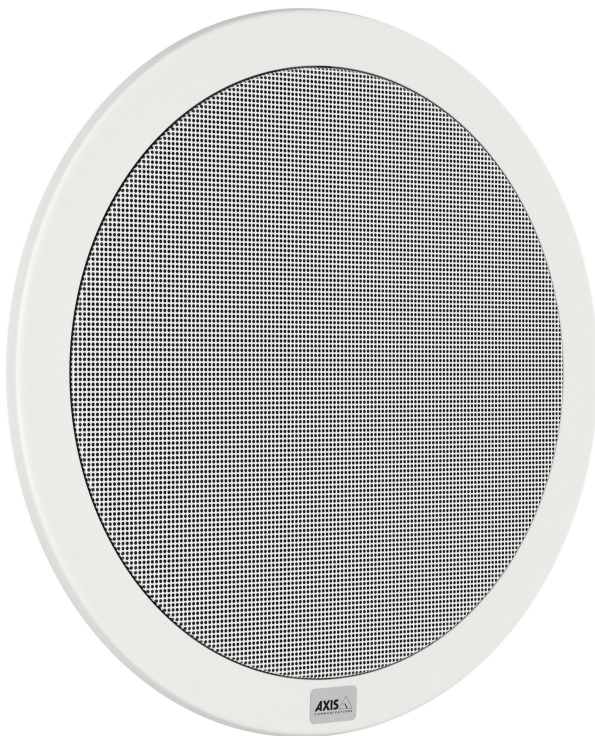# AXIS C2005 Network Ceiling Speaker

Audio made smart and easy

AXIS C2005 is an all-in-one speaker system connected with a single network cable. It delivers out-of-the-box-ready high-quality sound without any need for fine-tuning. Background music can be played via the preinstalled AXIS Audio Player application. You can create and schedule your own playlists from an onboard SD card or from audio streaming services. AXIS C2005 is also perfect for voice announcements (scheduled or live calls). The speakers can be zoned together thanks to built-in audio synchronization technology.

> **Easy music streaming**

> **Voice announcements**

> **All-in-one speaker system**

> **Quick installation with just one network cable (PoE)**

> **Future-proof with openness and integration**

AXIS C2005 Network Ceiling Speaker

Audio

Audio streaming	One-way/two-way [a], mono
Audio compression	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.
Audio input/output	Built-in microphone (can be disabled)
Built-in microphone specification	50 Hz - 16 kHz

Speaker

Speaker component	20 cm (8 in) coaxial cone type
Max sound pressure level	95 dB
Frequency response	45 Hz - 20 kHz
Coverage pattern	130° coaxial

Amplifier

Amplifier description	Built-in 6 W Class D amplifier

Network

Security	Password protection, IP address filtering, HTTPS[b] encryption, IEEE 802.1X[b] network access control, Digest authentication, User access log, Centralized Certificate Management
Supported protocols	IPv4/v6[c], HTTP, HTTPS[b], SSL/TLS[b], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP, SIP (Cisco, Asterisk)

System integration

Music streaming	Music playback through AXIS Audio Player. Offline streaming from SD card and online streaming support.
Voice announcement	Pre-recorded voice announcements through AXIS Audio Player. Voice announcement through built-in SIP support for connection to any IP telephone /VoiP system and VAPIX support.
Application Programming Interface	Open API for software integration, including VAPIX®, AXIS Video Hosting System (AVHS) with One-click Connection, AXIS Camera Application Platform (ACAP).
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: SIP client such as Cisco, Bria and Grandstream and PBX suppliers such as Cisco and Asterisk. Supported SIP features: secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN) Supported codecs: PCMU, PCMA, opus, L16/16000, L16/8000, speex/8000, speex/16000, G.726-32
Audio synchronization	Built-in audio synchronization[c] for up to 50 speakers with unicast and hundreds of speakers with multicast. No additional speaker management software or hardware required.
Intelligent audio	Auto Speaker Test (verification via built-in microphone)
Event triggers	Virtual inputs, AXIS Camera Application Platform (ACAP) Call: DTMF, State changes
Event actions	Play audio clip, send SNMP trap, send Auto Speaker Test, status LED File upload via HTTP, network share and email

	Notification via email, HTTP, HTTPS and TCP
Built-in installation aids	Test tone verification and identification

General

Casing	UL2043 Plenum rated Baffle: Steel plate Grille: Surface-treated steel plate Color: Off-white (RAL 9010 or equivalent) For repainting instructions and impact on warranty, contact your Axis partner. Speaker mounting method: Metal spring clamp
Memory	256 MB RAM, 256 MB Flash
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3af Type 1 Class 3 (max 12.95 W)
Connectors	RJ45 10BASE-T/100BASE-TX PoE
Storage	Support for microSD/microSDHC/microSDXC card For SD card and NAS recommendations see www.axis.com
Reliability	Designed for 24/7 operation.
Operating conditions	–20 °C to 50 °C (4 °F to 122 °F) Humidity 10–85% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	**EMC** EN 55022 Class A, EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KN24, KCC KN32 Class A, KN35 **Safety** IEC/EN/UL 60950-1, CNS 13438 **Environment** UL2045 (Plenum rating), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC/EN 60529
Dimensions	Ø280 x 92 mm (11.02 x 3.62 in) Ceiling thickness for mounting: 5 - 25 mm (0.2 – 0.98 in) Dimensions for fixing hole: Ø250 mm ± 3 mm (9.84 in ± 0.12 in)
Weight	1.7 kg (3.75 lb)
Included accessories	Installation Guide, AVHS authentication key, AXIS Camera Station license key
Optional accessories	Safety wire kit For more accessories, see www.axis.com
Video management software	AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

a. *This product supports two-way audio for sending audio to the speaker and receiving audio from the microphone. The product does not support two-way communication for conversations with speaker operators.*
b. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
c. *Audio synchronization with IPv4 only.*

Environmental responsibility:

www.axis.com/environmental-responsibility

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