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 
- **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 encryption, IEEE 802.1X® network access control, Digest authentication, User access log, Centralized Certificate Management
- **Supported protocols**: IPv4/IPv6, HTTP, HTTPS®, SSL/TLS®, 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, DHCPv6, ARP, SOCKS, SSH, NTCP, 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/IPBX. 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 (RFC2833 and RFC2837), NAT (ICE, STUN, TURN) Supported codecs: PCM, G.711a, opus, L16/16000, L16/8000, specex(8/9000, specex(16/8000), G.722-32
- **Audio synchronization**: Built-in audio synchronization 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)
- **Event actions**: Play audio clip, send SNMP trap, send Auto Speaker Test, status LED

## Built-in installation aids
- Notification via email, HTTP, HTTPS and TCP

## General
- **Casing**: UL2043 Plenum rated
- **Baffle**: Steel plate
- **Grille**: Surface-treated steel plate
- **Color**: Off-white (RAL 9010 or equivalent)
- **For paintings and inscriptions 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/b/802.3at 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, ACM AS/NZS CISPR 32 Class A, KN24, KCC KNS00003 Class A, A03
- **Safety**: IEC/EN/UL 60950-1, CNS 13438
- **Environment**: UL2045 (Plenum rating), IEC 60668-2-1, IEC 60668-2-2, IEC 60668-2-14, 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**: Ø32 mm ± 3 mm (0.84 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

## Applicability
- 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.
- 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).
- Audio synchronization with IPv4 only.

## Environmental responsibility
- www.axis.com/environmental-responsibility