

# AXIS C1610-VE Network Sound Projector

Sleek, robust speaker for clear speech

This network sound projector features a clean and minimalistic design suited to both outdoor and indoor environments. Digital signal processing (DSP) ensures clear sound, and embedded audio management software lets users remotely coordinate security, safety, and operational messages alongside background music. Built-in memory supports prerecorded messages, and live speak lets personnel address events in real time. Built on open standards, this speaker supports integration with network video, access control, analytics, and VoIP (supporting SIP). This standalone unit connects directly to your standard network for a flexible, scalable, cost-effective audio solution. Furthermore, its IK10 vandal-resistant rating allows for placement almost anywhere.

- > [Sleek, vandal-resistant design](#)
- > [All-in-one, outdoor-ready speaker system](#)
- > [Connects to standard network](#)
- > [Simple installation with PoE](#)
- > [Remote health testing](#)



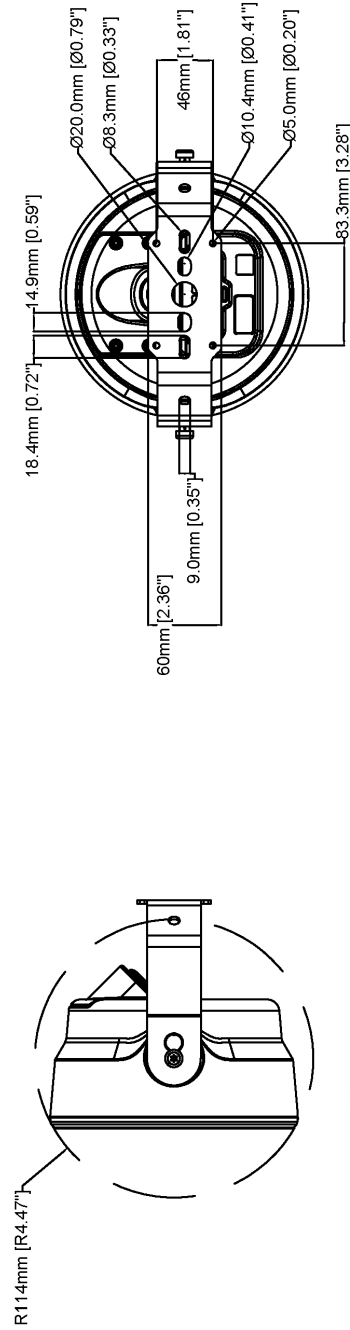
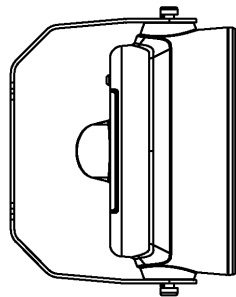
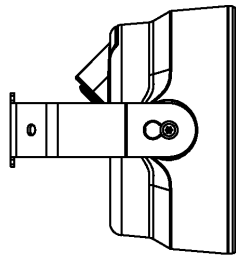
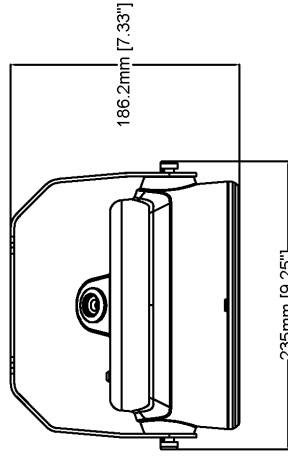
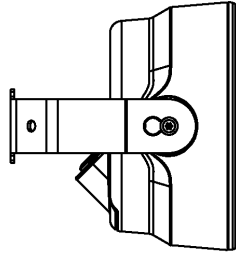
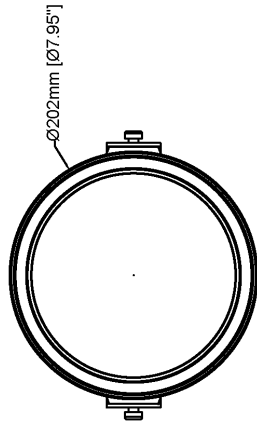
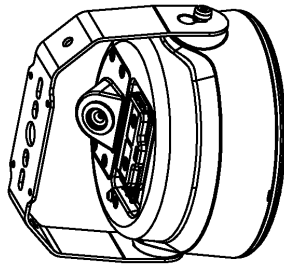
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<b>Audio hardware</b>		Scheduled and recurring: schedule	
<b>Enclosure</b>	One-way enclosure with 4-inch broadband dynamic cone speaker	<b>Event actions</b>	Audio: run automatic speaker test Audio clips: play, stop I/O: toggle I/O once, toggle I/O while the rule is active LEDs: flash status LED, flash status LED while the rule is active Light and siren: run light profile, run light profile while the rule is active, stop activities MQTT: publish Notification: HTTP, HTTPS, TCP and email Recordings: record audio, record audio while the rule is active Security: erase configuration SNMP traps: send, send while the rule is active
<b>Max sound pressure level</b>	106 dB	<b>Built-in installation aids</b>	Test tone verification and identification
<b>Frequency response</b>	200 Hz - 16 kHz	<b>Functional monitoring</b>	Auto Speaker Test (verification via built-in microphone)
<b>Coverage pattern</b>	130° (at 2 kHz)	<b>Approvals</b>	
<b>Audio input/output</b>	Built-in microphone (can be disabled mechanically)	<b>EMC</b>	EN 55032 Class B, EN 50121-4, EN 61000-6-1, EN 61000-6-2, IEC 62236-4, EN 55024 Australia/New Zealand: RCM AS/NZS CISPR 32 Class B Canada: ICES-3(B)/NMB-3(B) Japan: VCCI Class B Korea: KC KN32 Class B, KC KN35 USA: FCC Part 15 Subpart B Class B Railway: IEC 62236-4
<b>Built-in microphone specification</b>	50 Hz - 15 kHz	<b>Safety</b>	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22
<b>Amplifier description</b>	Built-in 7 W Class D amplifier	<b>Environment</b>	IEC 62262 IK11, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-78, IEC/EN 60529 IP66, NEMA 250 Type 4X, MIL-STD-810G 509.5, ISO 21207 (Method B), ISO 4892-2
<b>Digital signal processing</b>	Built-in and pre-configured	<b>Cybersecurity</b>	ETSI EN 303 645
<b>Audio management</b>		<b>Network</b>	
<b>AXIS Audio Manager Edge</b>	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 <a href="http://axis.com/products/axis-audio-manager-edge/support">axis.com/products/axis-audio-manager-edge/support</a>	<b>Network protocols</b>	IPv4/v6 <sup>a</sup> , HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP, SIP
<b>AXIS Audio Manager Pro</b>	For larger and more advanced systems. Sold separately. For specifications, see the datasheet on <a href="http://axis.com/products/axis-audio-manager-pro/support">axis.com/products/axis-audio-manager-pro/support</a>	<b>Cybersecurity</b>	
<b>AXIS Audio Manager Center</b>	AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems. For specifications, see the datasheet on <a href="http://axis.com/products/axis-audio-manager-center/support">axis.com/products/axis-audio-manager-center/support</a>	<b>Edge security</b>	Software: Digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection
<b>Audio software</b>		<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
<b>Audio streaming</b>	One-way/two-way with optional half-duplex echo cancellation. Mono.	<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="http://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="http://axis.com/cybersecurity">axis.com/cybersecurity</a>
<b>Audio encoding</b>	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis $\mu$ -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.	<b>System on chip (SoC)</b>	
<b>System integration</b>		<b>Model</b>	NXP i.MX 6SoloX
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX®, One-click cloud connection, AXIS Camera Application Platform (ACAP).	<b>Memory</b>	512 MB RAM, 512 MB Flash
<b>Video management systems</b>	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at <a href="http://axis.com/vms">axis.com/vms</a> .	<b>General</b>	
<b>Mass notification</b>	Singlewire InformaCast®, Intrado Revolution, Lynx, Alertus	<b>Casing</b>	Impact-resistant aluminum, IP66-, IK11-, NEMA 4X-, and MIL-STD-810G 509.5-rated.
<b>Unified communication</b>	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	<b>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 (typical 4.5 W, max 12.95 W)
<b>SIP</b>	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)	<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os
<b>Event conditions</b>	Audio: audio clip playing, speaker test result Call: state, state change Device status: IP address blocked/removed, new IP address, network lost, system ready, live stream active Edge storage: recording ongoing, storage disruption, storage health issues detected I/O: digital input, manual trigger, virtual input MQTT: stateless	<b>LED indicators</b>	Status LED, front-facing LED
		<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Max. size 1 TB For SD card recommendations see <a href="http://www.axis.com">www.axis.com</a>
		<b>Reliability</b>	Designed for 24/7 operation.

<b>Operating conditions</b>	-40°C to 55 °C (-40 °F to 131 °F) Humidity 10-100% RH (condensing)
<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (condensing)
<b>Dimensions</b>	Ø203 X 105 mm (Ø8.0 x 4.1 in)
<b>Weight</b>	4.1 kg (9.0 lb)
<b>Box content</b>	Speaker, installation guide, Owner Authentication Key, AXIS Connector Guard A, Cable shoe
<b>Optional accessories</b>	AXIS T91B47 Pole Mount, AXIS T91F67 Pole Mount, Cable Gland M20x1.5, RJ45, Cable Gland A M20, AXIS Power over Ethernet Midspans, T94R01B Corner Bracket, T94P01B Corner Bracket, T94S01P Conduit Back Box For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a> Available at <a href="http://axis.com/products/axis-c1610-ve#part-numbers">axis.com/products/axis-c1610-ve#part-numbers</a>
<b>Tools</b>	
<b>Design</b>	AXIS Site Designer

	Available at <a href="http://axis.com">axis.com</a>
<b>Installation</b>	AXIS Device Manager, product selector, accessory selector Available at <a href="http://axis.com">axis.com</a>
<b>Sustainability</b>	
<b>Substance control</b>	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see <a href="http://axis.com/partner">axis.com/partner</a> .
<b>Materials</b>	Renewable carbon-based plastic content: 26% (recycled: 0%, bio-based: 26%, carbon capture based: 0%) Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to <a href="http://axis.com/about-axis/sustainability">axis.com/about-axis/sustainability</a>
<b>Environmental responsibility</b>	<a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a> Axis Communications is a signatory of the UN Global Compact, read more at <a href="http://unglobalcompact.org">unglobalcompact.org</a>

a. *Audio synchronization with IPv4 only.*



Revision	v.01	Revision date	2023-01-16
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