

Hamedal A20 Conference SpeakerMic

Crystal Clear Sound, Full-duplex Conference Calls



8-Element Microphone



AI Noise-Suppression



Full Duplex



Daisy-Chain



Hidden Ports



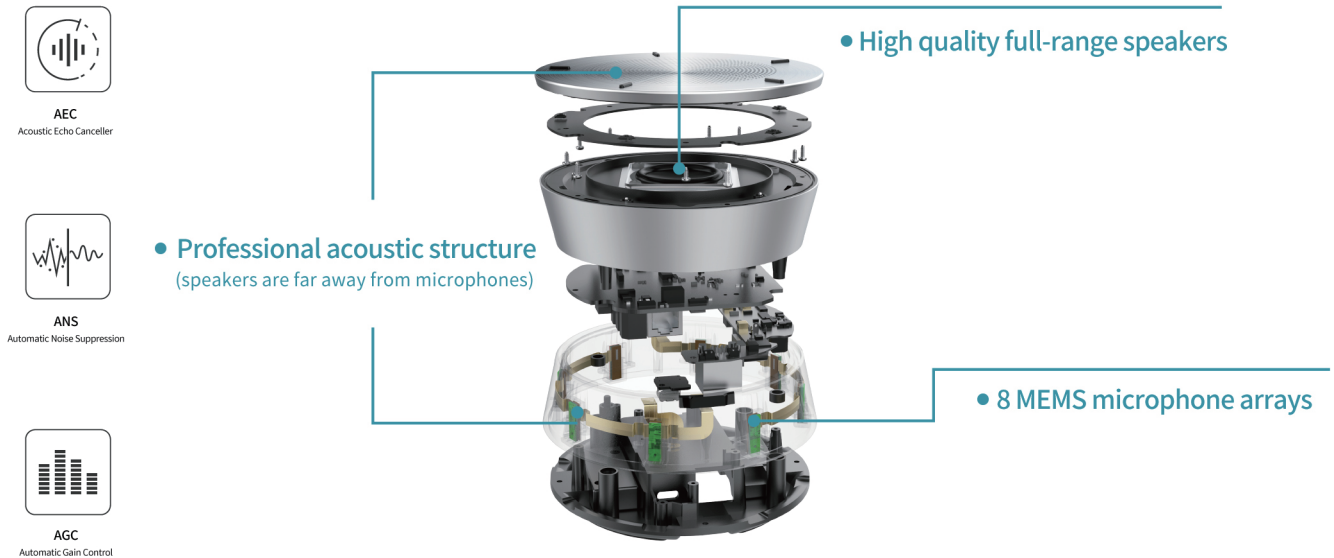
Plug & Play



Hamedal A20 is a noise-cancellation speaker mic for conference calls designed by Auditory works. The speaker mic can intelligently suppress office background noises, pickup far-field voices with phenomenal clarity, and conduct full-duplex calls within 5 meters, thanks to the audio algorithm of advancement. With features, including the daisy-chain function supporting ample conference space, hidden ports, USB plug & play, general compatibility with all leading online conference platforms. Hamedal A20 is a wise choice for conference rooms of all different scales.

Advanced 3A Algorithm and Professional Acoustic Structure, Full-Duplex Communication Within 5 Meters

Hamedal A20 adopts an 8-element omnidirectional microphone array, empowered by our exclusive patented robust algorithm. The product can intelligently reduce the background noises, cancel the echo between its speaker and microphones, pickup voices with phenomenal clarity, and enable Automatic Gain Control (AGC) within 5 meters, all simultaneously. The built-in customized speaker unit is detached spatially from the microphone array to provide users an uninterrupted, two-way communication experience.



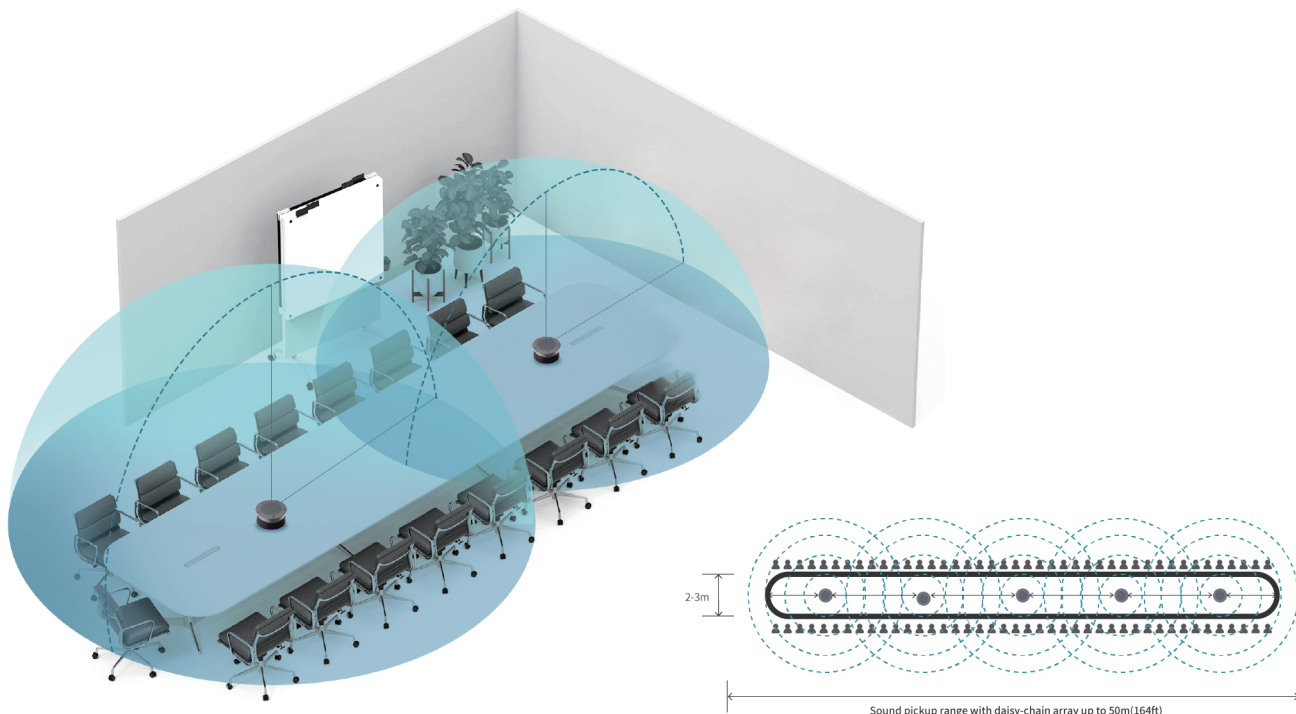
AI Noise-Cancellation. Promote Conference Efficiency with HD, Crystal Clear Sound

Hamedal A20 adopts an AI model trained by thousands of hours of conference audio records. It can effectively suppress various sorts of conference room background noises, such as mouse/keyboard tapping, computer, and air-conditioner. With the AI algorithm's help, this speaker mic can minimize most indoor noise while retaining the clarity of people's voices and nature to ensure the participants' great concentrated attention.



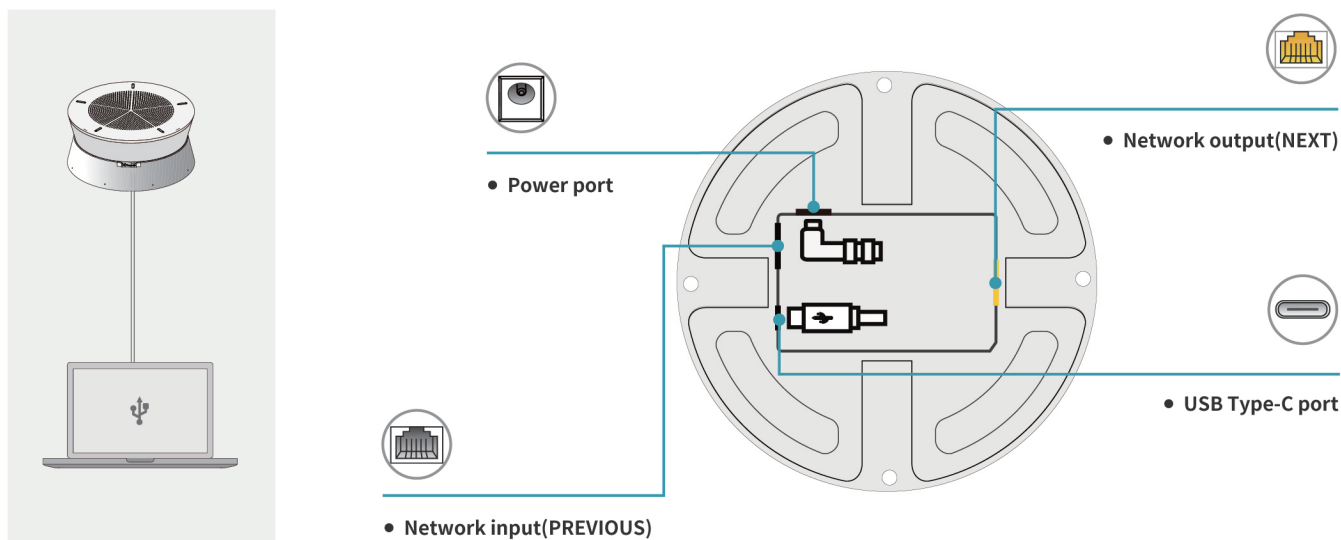
Daisy-Chain Enabled, Medium to Large Conference Room Supported

Thanks to the unique daisy-chain feature, now you can daisy-chain up to 5 Hamedal A20 only over ethernet cables to adapt to various sizes of conference rooms. According to its spatial properties, Hamedal A20 speaker mics can be deployed in a customized fashion to ensure a complete coverage range. Every voice and speech can be picked up for each conference room.



Hidden Ports, Drive-Free, Keep Your Conference Room Neat

The design of Hamedal A20 takes into account the overall impression of your conference room. All of its ports are hidden at the bottom base, so you don't need to worry about various cables' entanglement. Through such an elegant design, your meeting room can be more organized and stylish. Meanwhile, its functions, including USB plug & play, driver-free, and general compatibility with mainstream conference software, can lower enterprises' deployment and maintenance costs.



Dimensions

- 120mm * 120mm * 64mm

Weight

- ~19.2oz (544g)

Input & Output

- Power Supply and Data Transmission over USB Type-C

Device Management

- Unified Firmware Update in Daisy-Chain Network
- Firmware Update as Single Device

Daisy Chain

- Maximum Daisy Chain Unit: ≤ 5
- Daisy Chain Configuration Requirement: Windows or Linux PC with USB, Mac with USB, Android Device with USB OTG
- Connect with PC or Smart Conference Dock from Any Unit in The Daisy-chain Network
- Daisy Chain Cable: CAT5E UTP cable and above
- Daisy Chain Power Supply: PoE
- Daisy Chain Time-lapse $< 0.5\text{m}$
- Synchronously Control Daisy Chain Network from Any Unit

Configuration Requirements

- Windows or Linux PC with USB, Mac with USB
- Android Device with USB OTG

Speaker

- Peak Power: $\geq 1.5\text{W}$
- Distortion Rate $\leq 1\%$ (1.5W Output Power)
- Actual Power: 1W for Music Playback, 1W for Communication or Audio Streaming
- Speaker Frequency Response: Wideband from 160Hz~16kHz
- Speaker Volume: 82dB SPL @1kHz at 0.5m

Microphone

- Amount of Omnidirectional Microphones in Single Mode: 8
- Maximum Voice Pickup Range in Daisy-Chain Mode: $\leq 50\text{m}$
- Voice Pickup Range: 5m

Audio Specs

- Maximum Background Noise Suppression: 18dB
- Full Duplex: When the gap of acoustic intensity between the near-end and far-end is less than 50dB
- Echo Cancellation: $\text{erle} \geq 30\text{dB}$
- Echo Suppression
- Speaker Tracking: Error of DOA $\leq 5^\circ$
- Automatic Gain Control: With 5-Meter Range

Buttons

- Answer/End Call (HID for third party system integration provided)
- Mute Microphone
- Volume Up
- Volume Down

