

Case Study | Jabra Elite 85h

Intelligent SmartSound Technology Analyzes Acoustic Scene

Based on the devAlce® Acoustic Scene Detection Module, the SmartSound analyzes your acoustic scene so the sound automatically adjusts to your surroundings. Active Noise Cancelling and the HearThrough feature let you enjoy the sound you want - on the go, at home, in the office, powered by audEERING.

The Jabra 85h enable unmatched call quality with 8 microphones. Wind noise and background distractions are additionally curbed. On-ear detection and voice assistants detect when the headphones are on the ears or removed. The audio playback as automatically played and paused.



jabra.com

Jabra develops, manufactures and markets wireless headphones, digital wireless headphones and wired headphones for consumers and for business customers.

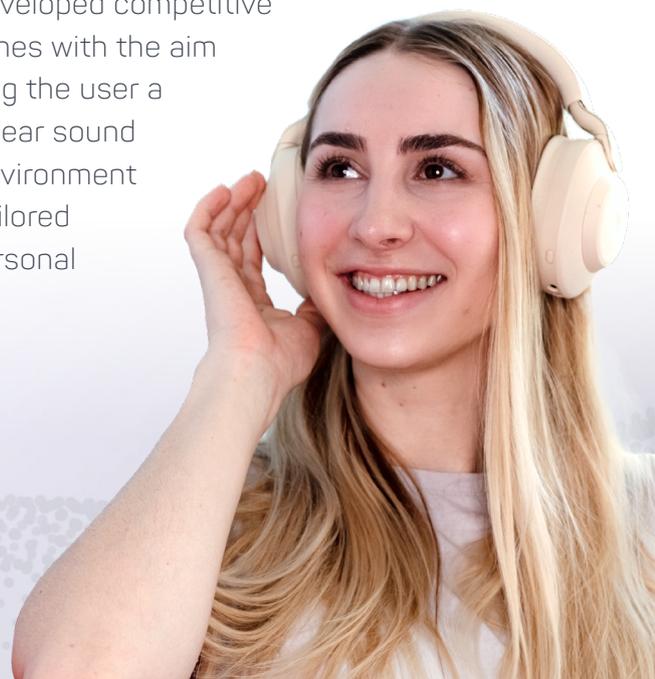
Founded 1983

Copenhagen, Denmark

Challenge

Active Noise Cancellation (ANC) has been available for headphones for some time, but a new feature is an intelligent acoustic scene analysis that is tailored to the individual user. Jabra and audEERING have

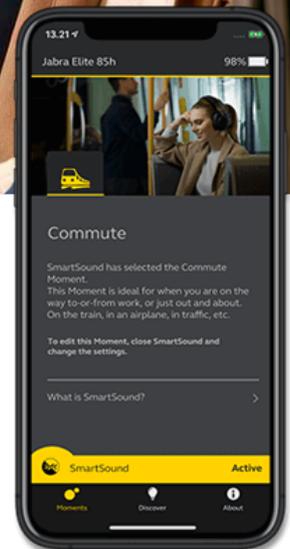
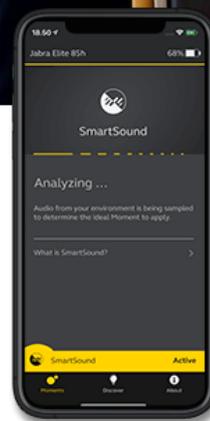
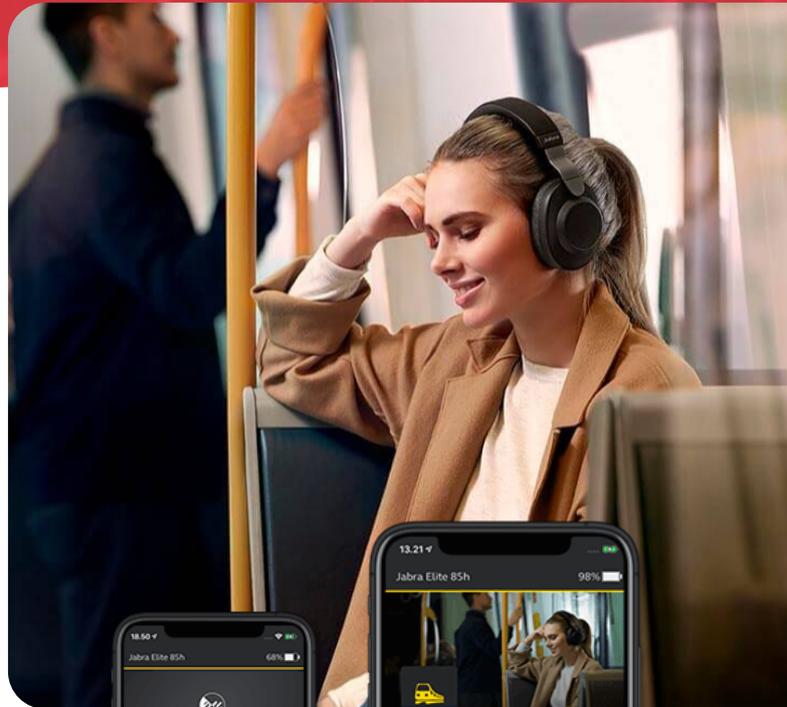
jointly developed competitive headphones with the aim of offering the user a crystal clear sound in any environment that is tailored to his personal needs.



Solution

Jabra and audEERING have developed a product to market maturity in just nine months: The Jabra Elite 85h headphones offer an optimal sound experience thanks to intelligent acoustic scene analysis. audEERING's devAlce® technology analyzes the user's current acoustic environment and adapts the sound actively to the user's situation through adaptive filtering. For this purpose, AI algorithms analyze more than 6,000 specific sound characteristics in real time.

If, for example, the user switches from a noisy railway track to a quieter train, the scene analysis technology automatically adjusts the sound. This ensures consistent voice and audio quality in different environments, such as public transport, the office or home.



Result

The Jabra App Sound+ also offers the user a variety of personalization options so that phone calls and music sound exactly as they expect. With the app, the user can choose between three modes: „Public“, „Commuting“ and „Private“. The volume level, noise reduction and equalizer can also be set individually for each mode.

The headphones received 13 product innovation awards at CES 2019 and extremely positive reviews from numerous media such as ZDNet. As part of Jabra's continuous renewal and optimization of its core product portfolio, production of the Elite 85h has been discontinued as of mid-2023.

“

Sound-wise, the Jabra Elite 85h convinces with a balanced sound that perfectly suits every music genre and gave us a lot of pleasure in the test. (...) A so-called HearThrough mode is optionally available, which completely lets ambient noise through. This is practical when you want to hear announcements, for example. Here, the intensity can be adjusted if desired.

”

Chip.de
Frederik Niemeyer

How Voice AI is revolutionizing edutainment

devAlce® is audEERING's audio analysis for any product. It can detect emotions, scenes, and many other features from audio. Both real-time and batch-processing modes are supported. Our AI models perform solidly even with limited CPU power.

With our devAlce® XR plugin, you can add emotion to XR projects and create immersive interactions.



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