

AB's Harmony System

...Outperforms Cochlear Systems in Noisy Situations.



HARMONY...HEAR YOUR BEST IN NOISE

The world's most reliable, best performing cochlear implant system.¹⁻⁴

How your cochlear implant system performs in noise is a critical consideration when it comes to making the right choice for you or your child. As an adult recipient, you want to easily participate in conversations that take place in noisy settings, whether you're at the local café or a hectic airport. If you're choosing a cochlear implant for your child, you want them to develop language skills in noisy classroom settings just like their normal-hearing peers.

Only Advanced Bionics® offers the Harmony® HiResolution® Bionic Ear System (Harmony) featuring the world's most sophisticated technology to bring you clearer, high-resolution sound in today's noisy world. While most cochlear implant systems on the market were designed to perform best in quiet, clinic-like conditions, Harmony is designed to help you hear well in everyday settings like busy offices, loud classrooms, and bustling restaurants. In fact, important comparative studies conducted by leading independent researchers show that AB surpasses other cochlear implant manufacturers with better hearing performance in real-world situations.^{1,2}

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References

1. Spahr A, Dorman MF, Loisel LH. 2007. Performance of Patients Using Different Cochlear Implant Systems: Effects of Input Dynamic Range. *Ear and Hearing* 28 (2): 260-275.
2. Haumann S, Büchner A, Lenarz Th. Does the Input Dynamic Range of Cochlear Implant Processors Influence Speech Perception in Adverse Listening Situations? Oral Presentation at the 10th International Conference on Cochlear Implant and Other Implantable Auditory Technologies, San Diego, CA, April 10-12, 2008.
3. Gifford R. Speech Perception in a Realistic Background Noise: Effectiveness of Preprocessing Strategies and External Options for Improving the Signal-to-Noise Ratio. Oral Presentation at the 10th International Conference on Cochlear Implant and Other Implantable Auditory Technologies, San Diego, CA, April 10-12, 2008.
4. Advanced Bionics Consumer Reliability Report. 2009.

In order for speech perception charts to provide objective information, it's critical that the data be presented in a transparent and factual manner. When AB makes direct comparisons between cochlear implant systems, we provide peer-reviewed data from the same study conducted at the same time. When researching, make sure the charts present data honestly and accurately.

The REAL Solution for Hearing in Noise

Why is Harmony the best choice for hearing well in noisy settings?



Experts agree that Harmony helps you hear your best in noisy, everyday environments.

Harmony® HiResolution® Bionic Ear System by Advanced Bionics®

Hear Your Best in Everyday Listening Situations only with AB

...proven by research experts Spahr, Dorman, and Loiselle

Hear Your Best in Real-World Settings only with AB

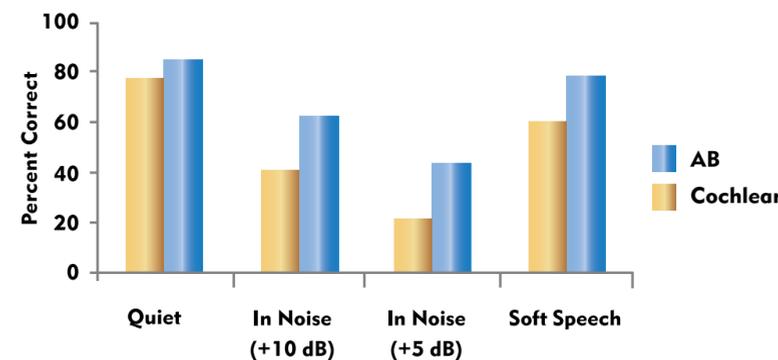
...proven by research experts Haumann, Büchner, and Lenarz

Hear Your Best in Noisy Surroundings Only with AB

...proven by research expert Gifford

REAL SCIENCE

In an independent study by experts Spahr, Dorman, and Loiselle, AB outperformed Cochlear on tests of everyday listening.¹



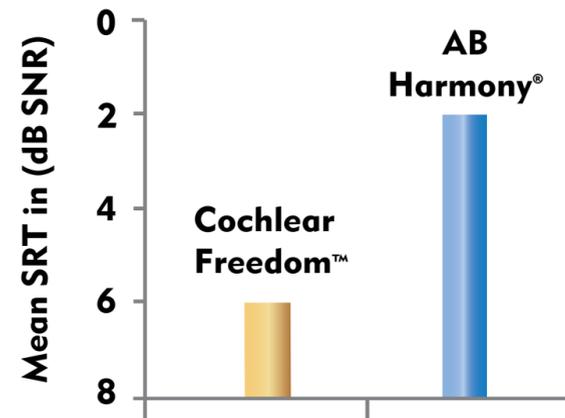
Mean sentence score in quiet, noise, and at a soft level for 13 AB users and 13 Cochlear users. AB users hear better than Cochlear users in noise and when speech is soft.

WHY THIS STUDY MATTERS

AB outperforms Cochlear in three common hearing situations: quiet environments like libraries, noisy settings like restaurants, and when speech is as soft as a whisper. And unlike competitor devices, with AB cochlear implant systems, there's no need to fumble with dials, switches, or remote controls every time you move from quiet to loud settings. So whether a professor calls on you in a loud lecture hall or your spouse whispers, "I love you," with AB's Harmony system, you'll hear the incredible sounds that enrich life and relationships.

REAL SCIENCE

Independent research by Haumann, Büchner, and Lenarz concluded that Harmony recipients hear speech better in noise and everyday life situations than Cochlear recipients.²



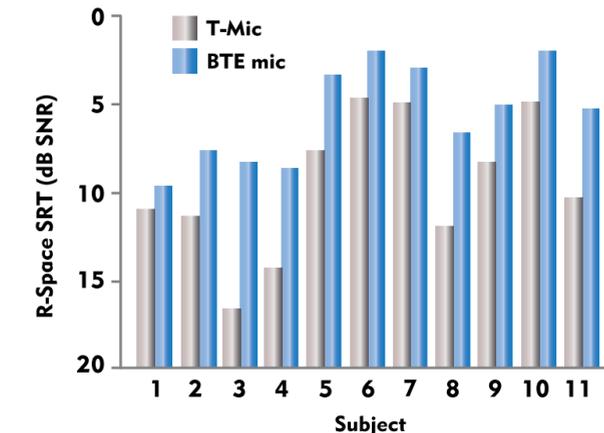
Results given as signal-to-noise ratio (SNR). Smaller SNR values mean better results. On this decibel scale, the scores with AB Harmony are 150% better than with Cochlear Freedom.

WHY THIS STUDY MATTERS

For your child's language development, the best way to learn how to speak is to hear people speak, which is why it's important to choose a cochlear implant system that allows them to hear speech in a variety of real-world settings from noisy classrooms to school plays. AB's unique AutoSound™ technology automatically adapts to changing listening environments so that you can easily hear people speaking in everyday settings. This independent study proves that Harmony recipients hear speech better in noisy situations and group gatherings than Cochlear recipients.

REAL SCIENCE

Gifford showed that 11 out of 11 recipients understood more sentences in noise with Harmony's unique T-Mic® Microphone than with a behind-the-ear (BTE) microphone.³



Individual sentence reception thresholds (SRTs) (left) for 11 Harmony recipients using the BTE microphone and the T-Mic only from AB. A smaller SRT is better and means that the listeners can hear the same sentences in more noise. Scores with T-Mic were better for all subjects.

WHY THIS STUDY MATTERS

Hearing in noise is a common challenge for everyone, but especially for people with hearing loss. Whether you're at a dinner party, wedding, or networking event, you want to easily participate in the lively discussions that take place—not struggle to keep up with the conversation, so it's crucial to choose the cochlear implant system that performs well in these challenging settings. This study shows that in noisy situations, AB helps you hear more of your world.

Hear your best in real-world situations like when you're singing lullabies to little ones and listening to the daily special at the local café.

With AB's superior technology, your child can develop language skills even in noisy classroom settings just like their normal-hearing peers.

Harmony helps ensure you won't miss a moment at lively gatherings, from birthday parties to business meetings.