



ADVANCED
BIONICS

POWERFUL CONNECTIONS

HiRes Ultra 3D

AB'S MOST ADVANCED AND
RELIABLE COCHLEAR IMPLANT

A Sonova brand



The Award-Winning Cochlear Implant Designed for You to Hear Your Best

Getting a cochlear implant (CI) is a life-changing decision. Whether it's watching a live show, talking to a friend on the phone, participating in class or meetings, or playing sports, you or your child deserve the most complete sound possible.

HiRes™ Ultra 3D cochlear implant is Advanced Bionics' most advanced and reliable cochlear implant. It is gentle on the inner ear,^{1,2} ready for future technology upgrades, and hassle-free if you ever need an MRI scan. But if what you want most is better hearing, HiRes Ultra 3D lets you or your child hear five times more different pitches than any other cochlear implant.³ Together with AB's Marvel CI, the most performance-focused sound processor,⁴ **whatever reaches your heart can also reach your ears.**

At AB, we're passionate about pushing the limits of technology. Together with our sister brand Phonak, we work to provide the most natural and complete hearing solutions possible—so you or your child can enjoy life without limitations.

All around the world, many thousands of people have already benefited from our cochlear implants. **Experience the powerful connections for yourself.**

“So glad I chose Advanced Bionics for its technology. AB has given me a world of hearing that I never knew existed, and it has never left me behind as its technology improved, as hearing aids did so long ago.”

— Melinda Hayden, AB CI Mentor

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Clear, Effortless Hearing

Each person thinking about getting a cochlear implant has their own hearing goals, but they all want to change their life for the better. If what you want most is to hear your best, HiRes Ultra 3D gives you what other implants can't.

What's inside matters. AB's HiRes Ultra 3D implant features **current steering and independent output circuits in all electrodes**, which are not available in any other CI system.

These special AB technologies allow you to hear five times more different pitches than any other implant.³ What does that mean? Imagine the keyboard of a piano. Whereas other implants may allow you to hear only every fifth note on the keyboard, HiRes Ultra 3D would allow you to hear, and differentiate, all the keys on that piano.

With HiRes Ultra 3D, you can understand speech better, especially in noisy places, and enjoy music with better sound quality.^{3,5,6} For your child, it also means the best chance for developing speech and language.^{7,8,9}

This is also why so many professional musicians chose AB cochlear implants over others.

“I can finally play the other instruments. I can listen to the orchestra without problems, so much so that I can recognize which instrument comes in later than the ensemble. I can hear the nuances of sound from fortissimo to pianissimo. I recognize notes without problems. I can accompany singers. In short, the AB cochlear implant has enabled me to do everything that I previously thought was impossible.

– Martina Petruccio, pianist

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AB's Technology Helps Your Surgeon Get the Best Results

Gentle on the inner ear

Our electrodes come in different shapes to best fit your ear and your surgeon's preferences. But no matter the shape, they are all made to let you or your child hear as many different pitches of sound as possible.^{10,11,12,13} They are also designed to protect the delicate inner ear.^{1,2}

“I've worked with Advanced Bionics for a number of years, and one of the things I've always appreciated is their willingness to pursue the cutting edge of cochlear implantation, whether it's in research, methodologies, and new electrode designs to advancing clinical care solutions for patients with hearing loss.

– Dr Charles J. Limb, M.D.
Chief of the Division of Otology, Neurotology and Skull Base Surgery at University of California, San Francisco, USA

Protecting your inner ears means saving as much of your own hearing abilities as possible. In fact, **AB's electrodes are proven to be better for this than any other on the market.**¹⁴ Keeping your hearing as much as possible can help you hear better with your implant, and may even allow you to take advantage of future technology and medical advances.

“Some of my patients are afraid that they will lose their residual hearing after the surgery. Of course, this can happen, but it's not so often. With the new surgical techniques, with robot-assisted techniques and with a good electrode array design that we have now today, it's possible to preserve hearing in most of the cases. So, I tell my patients that even though there is a risk, the CI will always improve their life and change their life after the surgery.

– Dr. Yannik Nguyen, ENT Surgeon
Pitié-Salpêtrière University Hospital, Paris, France

A more advanced monitoring during surgery

Only AB's AIM technology allows your surgeon to get real-time feedback on the health of your cochlea during the CI surgery.¹⁵

“In my experience, the AIM™ System has changed all in terms of introduction of the electrode [during CI surgery]. Because with a real-time feedback, we can see what is happening in the cochlea. I find it very useful and I use it in all my patients, pediatrics and adults. I choose AB because this is the only company that [has tools] like the AIM system [to] support my surgeries.

– Dr. Diego Marcomini, Otologist
Director of Sanatorio Franchín, Buenos Aires, Argentina





Peace of Mind with MRI

MRI scans pain-free, hassle-free, and with uninterrupted hearing

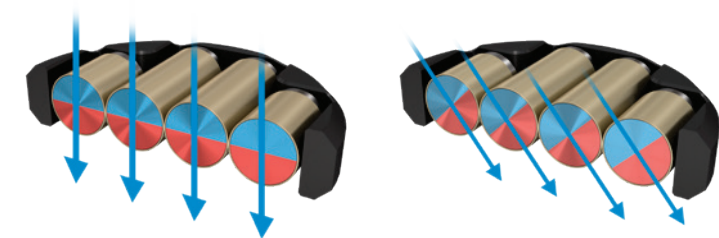
MRI scans are an important part of healthcare. But the magnetic field from MRI machines pulls on the CI magnet inside the head, which can cause pain. That's why people with cochlear implants often had to have a surgery to take out the magnet before MRI scans, and another one to put the magnet back afterwards. The time without the magnet also means the patient can't hear with their CI. That's why we invented the new magnet design in the HiRes Ultra 3D.

The HiRes Ultra 3D implant's unique design lets you or your child safely have high resolution imaging, such as 3.0 Tesla MRIs, without any preparation, surgery, or head bandaging. Simply take off the sound processor before your scan, and put it back on after it's done.

HASSLE-FREE. Our HiRes Ultra 3D cochlear implant does not need to be taken out during an MRI, so you can treat it like any other standard medical examination. It's the only implant that can be used with up to 200 MRIs, **unlike other solutions on the market.**^{15,16}

PAIN-FREE. AB's unique multi-magnet assembly spins in all three dimensions. This means **no pain, discomfort, or head placement restrictions.** This way, you can enjoy an easier exam set-up, better results, and peace of mind.

UNINTERRUPTED HEARING. The only thing that you have to do to get an MRI is to take off the sound processor and put it back on after the MRI examination.



AB's Most Advanced and Reliable Cochlear Implant System

Future proof

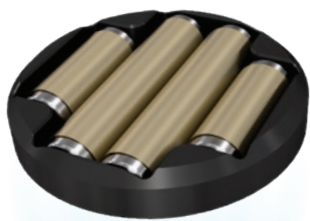
The HiRes Ultra 3D cochlear implant is **designed to work with new technology** yet to come. So, not only will you be able to enjoy better hearing now, you can continue to expect improvement in the future. In fact, people who have received an AB implant years ago have had up to five opportunities for major technology upgrades just in the last twenty years.

Thin, strong, and built for sports

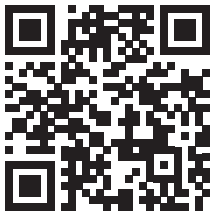
The HiRes Ultra 3D cochlear implant is strictly tested to stay safe and durable over time. In fact, it is **Advanced Bionics' most reliable implant ever**, and exceeds industry and international standards for impact resistance¹⁷ and reliability.¹⁸ This way, you or your child can enjoy everyday activities and sports without worry.

Most performance-focused sound processor

AB's Marvel CI is a user-friendly, powerful cochlear implant sound processor designed to help you stay connected. In fact, it is rated by an independent agency to be the most performance-focused cochlear implant sound processor available.⁴ Together, HiRes Ultra 3D and Marvel CI can help you hear your best.



One of the best cochlear implants ever made, HiRes Ultra 3D won the [Medtech Breakthrough Award 2019 for Best Medical Device Solution](#) and is the [Good Design Award 2022 Gold Winner](#).



See the HiRes Ultra 3D cochlear implant in augmented reality with your mobile phone.

Three Reasons to Choose HiRes Ultra 3D Cochlear Implant

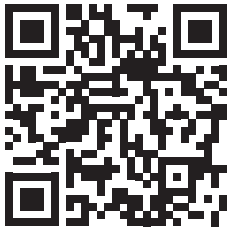
- 1. **Better hearing and music enjoyment** because our sound processing is designed to let people hear more distinct pitches than any other CI System.³
- 2. **Gentle on the inner ear** because our electrode is designed to be smoothly inserted in the cochlea.
- 3. **Hassle-free and pain-free MRI** because our multi-magnet assembly is designed to ensure no pain or discomfort during MRI scans compared to other CI Systems. The only thing that you have to do to get an MRI is to take off the sound processor and put it back on after the MRI examination.

Getting a cochlear implant is a big decision. While you have to have a surgery, remember that it's only a very short part of the process, and hundreds of thousands of children and adults have had it with great results.

AB's technology gives you and your surgeon your best chance for a successful surgery, and a future filled with the sounds you love.



Discover and learn more about the *three reasons* that make our technology unique with a *3D interactive animation*.



POWERFUL CONNECTIONS

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Please contact your local AB representative for regulatory approval and availability in your region.