Hear Your World

HiResolution™ Bionic Ear System
by Advanced Bions
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“There certainly has been a lot of buzz at our local pool where Kaelen has been wearing her Neptune processor. The lifeguards are all so amazed at the technology and that she’s able to hear in the pool. She can now hear the three whistles when the lifeguard tells everybody to get out of the pool.”

—Kristi Fulford,
Mother of Kaelen, AB recipient
Hearing with a cochlear implant

A cochlear implant is an electronic device that allows many people with severe-to-profound hearing loss to hear the world around them. People who have never heard before may experience hearing for the very first time.

Selecting the right cochlear implant for you or your child is a significant decision. For something as critical as your ability to hear, you need reliable, high-performing technology that helps you hear your world all-day long and offers full upgradeability for future hearing improvements without the need for surgery.

Reliability You Can Count On

With an Advanced Bionics cochlear implant system, you will have peace of mind knowing that you or your child can count on the advanced technology to work every day. You will also experience fewer interruptions in hearing because AB offers high system reliability.

“I chose AB because of the headroom of the internal device and the durability of the external device.”
—Ellyn McCall, mother of Seth, AB recipient
Top Hearing Performance in Everyday Situations
With AB’s unequaled technology and performance, you or your child can hear your best in the challenging listening environments encountered throughout the day.

“With my AB cochlear implant I have my independence back and I don’t worry or think about having to answer the phone; I can just reach out, pick up the phone and say ‘hello.’”—Debbie Quinn, AB recipient

Hear Your Best All Day
AB’s cochlear implant system is designed to help you or your child enjoy the best possible hearing from morning to evening so that you can enjoy your life with no limitations.

“I cannot imagine where I would be without my implants in today’s world. Being able to hear is so very important. Without my implants, I would not be able to as fully participate in any of my sports, go to a mainstream school or know any of my friends.”—Regan Brady, AB recipient

Tomorrow’s Innovations with Today’s Technology
When you choose a cochlear implant system from AB, you benefit from superior internal technology now and external upgradeability for the future so that your hearing advances as the technology does—without the need for surgery.

“AB’s internal implant sophistication gives us confidence that the device will support future growth and technological advancements for years and years to come.”
—Susan Stibal, mother of Lily, AB recipient
The HiResolution™ Bionic Hear System from Advanced Bionics offers the industry’s most sophisticated technology for the most optimal hearing performance. When you hear your best, as close to normal hearing as possible, with AB technology, you can live your life with no limitations and participate more fully in everyday activities and integrate more easily with hearing peers.

**AB’s revolutionary processor** features the industry’s first freestyle™ wearing style that gives you the opportunity to hear all day, every day, whether you are taking a bath, exercising, or even practicing extreme sports. Neptune has been designed to suit all ages, lifestyles, weather, activities and terrain.

From a school classroom to a work environment to a social setting, users of AB technology enjoy the confidence that comes with hearing their best all-day long. Choosing AB gives recipients the ability to use FM in the classroom, answer the phone at work, communicate in noisy surroundings, and hear in the water.

**AB gives you or your child the opportunity to succeed.**

- Enjoy more confidence in life
- Reach your full potential with no limitations
- Improve language development
- Access future technologies developed in collaboration with Phonak, the leading provider of hearing systems
Flexible Wearing to Suit You

AB offers flexible wearing options to meet your needs. For those we prefer to wear nothing on the ear, the Neptune™ processor gives you the freedom to choose your wearing style—in your hair, on your arm, under your collar, in your pocket—without compromising performance. The Harmony™ processor is a comfortable, stylish, and highly functional behind-the-ear processor ideal for adults and children.
Advanced Technology for Superior Hearing Performance

Advanced Bionics stands apart with our unwavering commitment to developing top technology for superior hearing performance. When our recipients hear their best, they often succeed in mainstream schools alongside normal-hearing peers, achieve important career goals, and build meaningful relationships with loved ones.

AutoSound™ — Set It and Forget It

As you or your child engage in activities throughout the day, there is a rapid transition of sound from one moment to the next. AutoSound™ adapts automatically to your surroundings just like a normal-hearing ear. From quiet to loud environments, AutoSound captures the widest Input Dynamic Range of any cochlear implant system and adjusts the volume instantly, so that you hear more of your world, more effortlessly. With AutoSound, there is no the need to change the settings or controls on your sound processor. From airports and offices, parties to playgrounds, AutoSound is designed to optimize your hearing for every listening environment.

“Eating outside and listening to conversations in noise can be stressful and draining; it was not with ClearVoice. It was normal. And I know normal because I used to hear normally. ClearVoice is wonderful.”

—Carol Dunlap, bilateral AB recipient
ClearVoice is the Clear Choice

AB’s ClearVoice™ strategy is a groundbreaking innovation designed to help you or your child communicate with confidence. Only ClearVoice automatically analyzes and adapts to every listening situation, then separates speech from surrounding noise for improved understanding and comfortable conversations. No matter which environment you or your child may encounter, from loud sporting events to noisy cars, cafés, and playgrounds, ClearVoice is designed to help you hear speech without making a single adjustment to your processor. In fact, ClearVoice is clinically proven to improve recipient outcomes.¹⁻³

Clinical References:
HiRes Fidelity 120™ — Discover the dimensions of Sound

In order to help you hear your best, Advanced Bionics continually innovates sound processing technology designed to provide hearing that is as close to normal hearing as possible; AB’s HiRes Fidelity 120™ is designed to do just that for recipients.

As the industry’s only sound strategy that uses 120 spectral bands to deliver five times more sound resolution than any other cochlear implant system, HiRes Fidelity 120 has been developed to reveal all the dimensions of sound, from the rich layers of music to the subtle nuances of tone during a conversation.

“When I was upgraded to Fidelity 120, the finer pitch perception allowed me to enjoy all my favorite music again.” —Howard Samuels, bilateral AB recipient
Technology Working in Concert for Your Music Enjoyment

AB’s technology is designed to help you or your child hear music without missing a note.

**HiRes Fidelity 120™ Sound Processing**
The only strategy that can implement simultaneous current steering to deliver the dimensions of music (loudness, pitch, timing) for a full musical experience.

**AutoSound™**
continually adjusts the volume as you listen, ensuring that you catch every moment.

**Wide IDR (Input Dynamic Range)**
enables AB recipients to hear more sound with less distortion, so it’s easier to hear music, make out lyrics, and discern individual instruments.

**T-Mic™ Microphone**
makes it effortless to use your MP3 player.
As the industry’s only microphone placed at the opening of the ear canal, the T-Mic takes advantage of the outer ear’s ability to gather music’s vivid sounds.

“My most memorable hearing experience with my cochlear implants was the ability to hear at my wedding—the music, the vows, the cameras clicking, the people—and the ability to hear our precious kids when they were newborns.”
—Kim Brownen, bilateral AB recipient
Discover Neptune™, the first and only swimmable sound processor in the world with the most flexible wearing styles ever—only available from AB, the global leader in cochlear implant technology. Whether you enjoy taking a dip in the pool on a warm day or bonding with your child at bath time, Neptune delivers hearing during these important activities.

Designed for the best hearing performance in and out of the water, Neptune also is compatible with the industry’s most advanced hearing technology, including AutoSound™, ClearVoice™, and HiRes Fidelity 120™.

So jump in the pool, sing in the shower, and hear your world with the revolutionary Neptune processor!
NEPTUNE | strength in design

Euro Port Connector
Sensitivity Control
Volume Control
Program Switch
Neptune Connect
Release Latch
AAA Battery Location
Headpiece Cable Connector
Sound Processor
Waterproof AquaMic™ Headpiece
Low-profile Universal Headpiece

Ready for Swimming!
(Profile view without Neptune Connect)

IP68† strength in numbers
AB has the industry’s highest rating!

Ingress Protection

Protection against solid foreign bodies
Rating: 0 indicates no protection and 6 indicates dust tight. AB offers maximum protection against solid particles.

Protection against various forms of moisture
Rating: 0 indicates no protection and 8 indicates protection against complete, continuous submersion in water. Only AB offers the world’s first processor and microphone intended for repeated submersions.

†Complies with IEC 60529 IP68 rating.
Wear it **Your Way, every day**

Developed for **all ages** and **lifestyles**, the lightweight Neptune processor features the industry’s first freestyle™ design, allowing you or your child to hear your world with the comfort of **nothing on the ear**. Only Neptune gives you the freedom to choose your wearing style—in your hair, on your arm, under your collar, in your pocket—without compromising performance. Whether you want to show it off or tuck it away discreetly, the freestyle design lets you **wear it just how you like it**.

**Unique Features**

- **Stylish**, elegant design inspired by popular consumer electronics
- Removable controls for **waterproof** and **childproof** wearing configuration
- Wide range of **fashion-forward colors** for mixing and matching
- **Two headpiece choices**: AquaMic™ or Universal Headpiece™
- **Power it** with one AAA battery, off-the-shelf disposable or rechargeable
- **Convenient accessories**: swim cap, armband, headband, s clip, pouch, lanyard
- **Connect wirelessly** to Phonak Dynamic FM systems
Easy Useability
- Tactile controls
- IntelliLink™ safety feature to prevent bilateral mismatches
- Visual and acoustic indications
- Easy connectivity to FM and audio devices

Low-Cost Rechargeable & Disposable Batteries
- Powered by one AAA battery
- Cost-effective rechargeable batteries for up to 21 hours of battery life
- Convenient disposable batteries for up to 30 hours of battery life

Neptune Connect Controls
- Removable waterproof, childproof use
- Instant access to FM and audio devices

Accessories
- Clip
- Pouch
- Lanyard
- Headband
- Swim Cap
- Armband

Built Kid Tough™ Durability
All Weather • All Sports • All Terrain • All Ages • All Lifestyles
The Harmony™ behind-the-ear sound processor from Advanced Bionics uses sophisticated technology to help you or your child hear your best at work, at school, or at play. Harmony’s patented T-Mic™ Microphone is the industry’s only microphone placed naturally at the opening of the ear. The T-Mic uses the outer ear’s sound-gathering capabilities to help you or your child hear better in noisy settings, use phones and earbuds like everyone else, and enjoy wireless connectivity to MP3 players.
Wear It!

**All-on-the-ear**
Comfortable behind-the-ear (BTE) wearing option.

**Off-the-ear Power Option** with PowerCel™ Adapter
This bilateral-ready Off-the-Ear Power Option is also capable of powering two Harmony processors from a single battery for added comfort and convenience.

**Nothing-on-the-ear (NOTE™)** with Kinder Clip™
Secure, off-ear wearing with a specially designed clip, ideal for little ones.
Style It!

Skinit

Skinit® designs allow you to customize your sound processor to match your mood or make a fashion statement. Dress your processor up with your favorite colors, sports teams, or works of art. You can choose from thousands of designs or even upload your own graphics for a completely unique look.

Accent Your Style

Accent your style with multiple color caps.

Blend In

Make your processor disappear with colors that blend to match your hair color and skin tone.

Skinit is a registered trademark of Skinit, Inc
Connect It

Available in standard and small sizes for you or your child’s ear, Harmony sound processor earhooks offer **simple and quick connectivity**. The T-Mic™ is the only microphone placed naturally at the opening of the ear for highly focused hearing while providing connectivity to cell phones, MP3 players, and more.

Power It

AB’s **convenient power options** are simple to operate and last for years. Ideal for all-day use, PowerCel™ batteries can be charged while you’re sleeping for an outstanding hearing experience from morning to evening.
Reliability You Can Count On

AB cochlear implants implanted today demonstrate high reliability with a 99.8% one-year cumulative survival rate (CSR), a measure that defines the likelihood of a device continuing to function over time. Focusing on improving design, AB expects to drive AB’s already high implant reliability even higher, while giving you or your child the innovation to hear more of your world and appreciate more of life’s soundtrack. Rest assured that an AB cochlear implant will continue to work so you’ll always hear your best.

“Advanced Bionics developed the first multichannel cochlear implant that could simultaneously or non-simultaneously stimulate different electrodes in the array... That was novel. And it’s still novel. And it’s why cochlear implants today are still going to be lead by Advanced Bionics.”

—Dr. Robert Schindler, Professor & Chairman Emeritus UCSF Dept. of Otolaryngology
Experience the advantages of the ultimate Implant

The AB’s cochlear implant is the world’s most advanced cochlear implant for hearing that more closely resembles a normal-hearing ear. Offering superior sound processing circuitry, the AB’s cochlear implant is designed to provide unsurpassed programming flexibility, nearly unlimited ways to deliver sound, and full upgradeability for access to tomorrow’s innovations without the need for additional surgery.

Unmatched Features

• Nearly unlimited ways to deliver stimulation for future technology inventions

• The only device with 16 independent current sources that facilitate simultaneous current steering to increase the number of pitches heard

• Low-profile design conforms to the shape of the head

• Removable magnet for MRI compatibility. MRI safe for scans at 0.3T and 1.5T with the magnet removed

• The industry’s highest case impact resistance; able to withstand 6 Joules

• High-precision gold coil for the industry’s fastest stimulation rate to deliver more accurate timing of sound.

References:
“We chose Advanced Bionics because of their superior technology. We wanted to give our son, Cormac, the best access to speech and AB was the way to go. We could not be happier with our decision. It might be the single best decision I have ever made in my life.”

—Jennifer Lawrence, mother of Cormac, bilateral AB recipient
AB was founded in 1993 by Alfred E. Mann with the mission to develop implantable patient care solutions that improve quality of life.

AB evolved from two highly successful companies that developed and marketed innovative medical devices; one created new generation pacemakers, and the other developed microinfusion systems (miniature drug delivery pumps used in the treatment of diabetes). The technology behind AB’s first cochlear implant system came from the pioneering research at the University of California, San Francisco.

Since its inception, AB has consistently made industry-leading advancements in technology innovations that have helped make a difference in the lives of thousands of families worldwide.

Today, AB offers the most sophisticated cochlear implant system on the market with five times more sound resolution than its competitors, designed to allow recipients to go beyond deciphering speech to hearing music.
AB & Phonak
innovating tomorrow’s hearing solutions

In 2009, the hearing healthcare industry changed forever. Advanced Bionics partnered with Phonak, bringing together the most advanced cochlear implant and hearing instrument technologies into one family. With this perfect marriage, a new horizon of hearing solutions has opened up that will improve the way people hear. Together, AB and Phonak are relied on by millions of people each day for the best possible hearing experience.

We deliver:

• More than 75 years of innovations in hearing technology
• A full spectrum of hearing solutions for every level of hearing loss from mild to profound
• The number-one choice worldwide in pediatric hearing instruments
• Industry-leading wireless communication systems that help recipients understand speech in noisy situations.
Choosing AB can help you hear the sounds that truly enrich life—the sweet songs of nature, shared laughter among friends, the many dimensions of music, and so much more.
“I think that a waterproof processor is going to revolutionize the industry. The one place our patients are not able to hear is in the water. Being able to now hear in the water is going to change their lives dramatically.”
