

## contact AB today

Now that you know AB will give you the best opportunity to enjoy the vibrant world of sound, take the next step by contacting us to speak with an audiologist or cochlear implant recipient who can answer your questions about the journey to hearing with cochlear implants.

### Call

866.844.HEAR(4327)

### Email

[hear@AdvancedBionics.com](mailto:hear@AdvancedBionics.com)

### Visit

[AdvancedBionics.com](http://AdvancedBionics.com)

### References:

1. ClearVoice Clinical Results (2012) White Paper. Valencia, CA: Advanced Bionics.
2. Büchner A, Frohne-Büchner C, Gaertner L, Lesinski-Schiedat A, Battmer R-D, Lenarz T. Evaluation of Advanced Bionics High Resolution Mode. *Int J Audiol.* 2006; 45:407-416.
3. Buechner A, Dyballa K-H, Hehrmann P, Fredelake S, Lenarz T (2014) Advanced Beamformers for Cochlear Implant Users: Acute Measurement of Speech Perception in Challenging Listening Conditions. *PLoS ONE* 9(4): E95542. doi: 10.1371/journal.pone.0095542

\*Not approved for pediatric use in the United States



**PHONAK** | Partners for Better Hearing

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[AdvancedBionics.com/contact](http://AdvancedBionics.com/contact)

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hear your best  
with Advanced Bionics

## performance matters

Performance is the most important consideration when it comes to selecting a cochlear implant. You want to hear your best in the most challenging settings from loud classrooms and conferences to crowded concerts and restaurants.

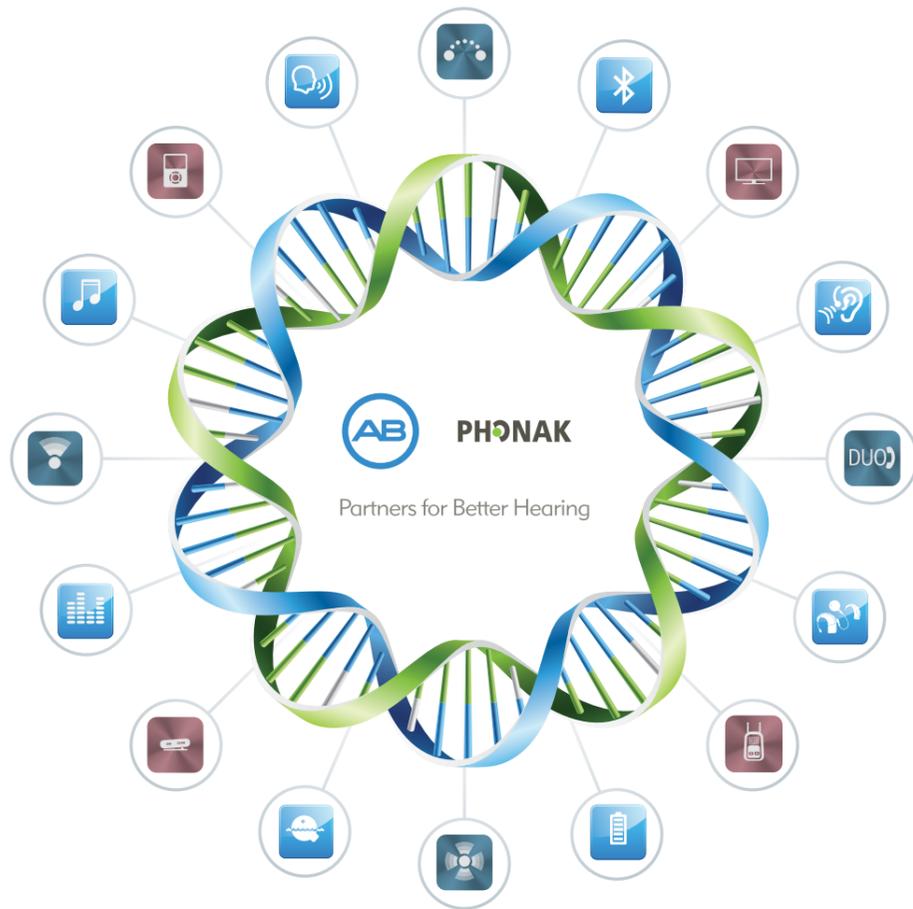
For the first time in history, cochlear implant recipients now have access to the combined dynamic technologies of Advanced Bionics and Phonak, the innovation leaders in cochlear implants and hearing instruments. The portfolio of leading technologies from this perfect marriage is designed to provide you or your child with the world's best performance in all situations.



A large graphic on the right side of the page features a central blue oval with the text 'autosound™' in white, bold, sans-serif font, and 'hear your best in every environment' in a smaller, italicized white font below it. This central oval is surrounded by a larger, light blue oval border containing several smaller circular images of people in various settings: a man on a phone, a man playing drums, a woman at a market, a woman in a classroom, a child at a table, and a woman smiling. The border is decorated with white text and dots: 'over distances • on the phone • music enjoyment • in noise • in all situations • bilateral • in and under water • wireless connectivity • bimodal'.

# advanced technology

for superior hearing performance in every environment



**T-Mic™ 2**  
takes advantage of the outer ear's ability to gather sounds.



**UltraZoom**  
dual-microphone technology pioneered by Phonak designed to focus on sound from a speaker located in front of the listener for improved speech understanding in noisy settings.



**AutoSound™**  
adapts automatically in quiet to loud environments just like a normal-hearing ear.



**ClearVoice™\***  
up to 25% improvement in speech understanding in noise. The market's only sound processing technology clinically proven to deliver superior hearing performance in noise.<sup>1</sup>



**HiResolution Sound**  
provides access to more timing details of sound and gives recipients a 16% improvement in speech understanding in noise over conventional sound processing.<sup>2</sup>



**HiRes Fidelity 120™\***  
uses 120 spectral bands to deliver five times more sound resolution for better hearing in noisy settings.



**HiRes™ Optima Sound Processing\***  
optimizes battery life while delivering the same great performance of HiRes Fidelity 120 with AB's unique current steering technology.



**ZoomControl**  
designed to zoom in on a speaker located on your left or right for clearer speech understanding in noisy settings.



**DuoPhone**  
automatically streams phone calls directly to both implanted ears for hearing in stereo and easier phone conversations.



**QuickSync**  
allows for easy, instant, simultaneous adjustments to volume and program settings on two Naída CI Q70 sound processors.



**AquaMic**  
the world's only underwater microphone for cochlear implants.



**Neptune™**  
the world's only underwater sound processor.



**AB myPilot**  
offers status information and one-touch changes to programs, volume, sensitivity settings, and more.



**ComPilot**  
wirelessly streams calls, music, and other media simultaneously to a compatible Phonak hearing aid and AB sound processor or two sound processors for surround sound in noise.



**RemoteMic**  
takes the strain out of conversations in noisy places by streaming voices to processors.



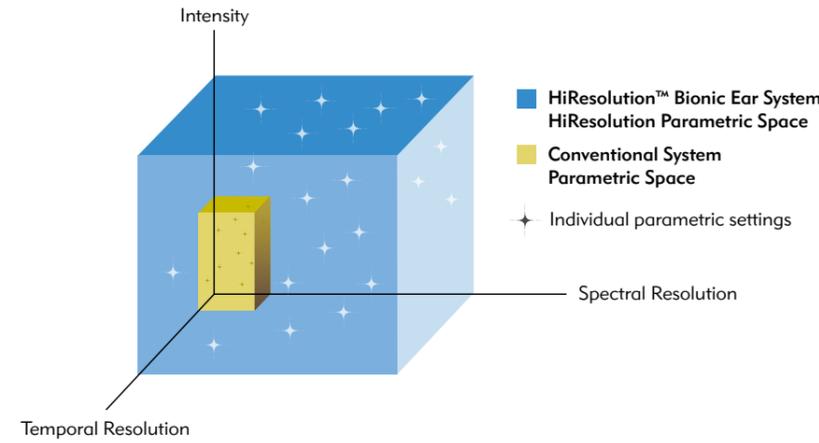
**TVLink**  
streams high-quality audio directly to sound processor(s) or a Phonak hearing aid while watching shows and movies.



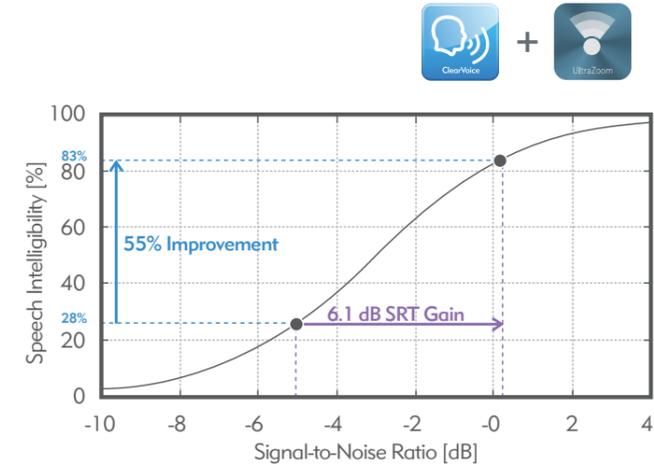
Roger is the new digital standard that bridges the understanding gap, in noise and over distance, by wirelessly transmitting the speaker's voice directly to the listener. **Coming soon to AB.**

# high-fidelity hearing in all situations

# hear in noise



Designed for improved speech recognition in noise and increased music enjoyment, AB technology provides more fine timing and spectral resolution than any other system on the market. Choose AB for high-fidelity hearing that helps you enjoy the rich world of sound, the nuances of conversation, and the complexities of a musical composition.



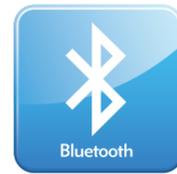
The introduction of Naída CI Q70 (Naída CI) delivers Phonak Binaural VoiceStream Technology™, designed to help you hear your best in the noisiest settings. When AB sound processing and Phonak features are combined, recipients enjoy significant improvements in speech understanding for clear and accurate communication in noisy settings.<sup>3</sup>



# hear on the phone



Technology from AB & Phonak has been designed to help you enjoy effortless phone conversations. Only AB offers you a naturally placed microphone for holding the phone up to your ear just like everyone else. For the ultimate convenience, Phonak features stream calls automatically to two processors or a processor and a Phonak hearing aid at the same time without you needing to hold or even touch your phone.



# hear in and under water



Advanced Bionics is the only cochlear implant company to offer a fully waterproof, swimmable sound processor and headpiece for hearing in and out of the water. This innovative AB technology allows you to jump in the pool, surf in the sea, sing in the shower, and continue to hear your best.



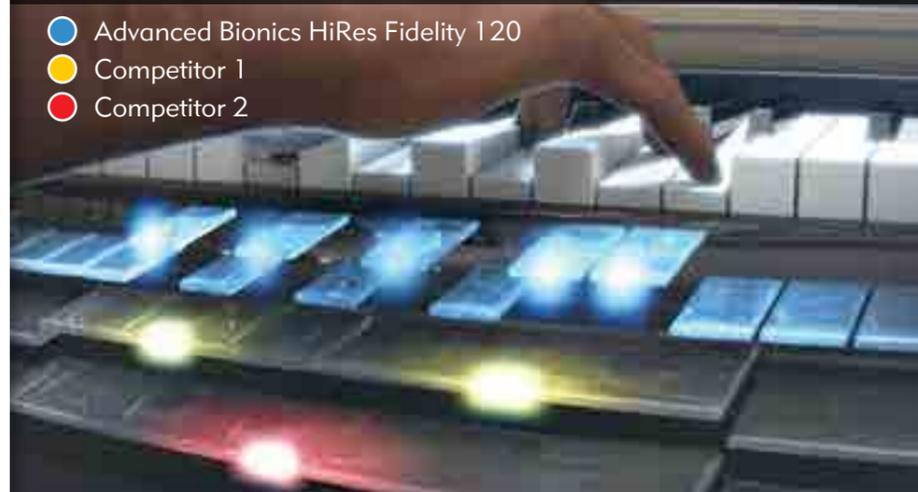
Coming Soon



# hear music

## hear five times more resolution with AB

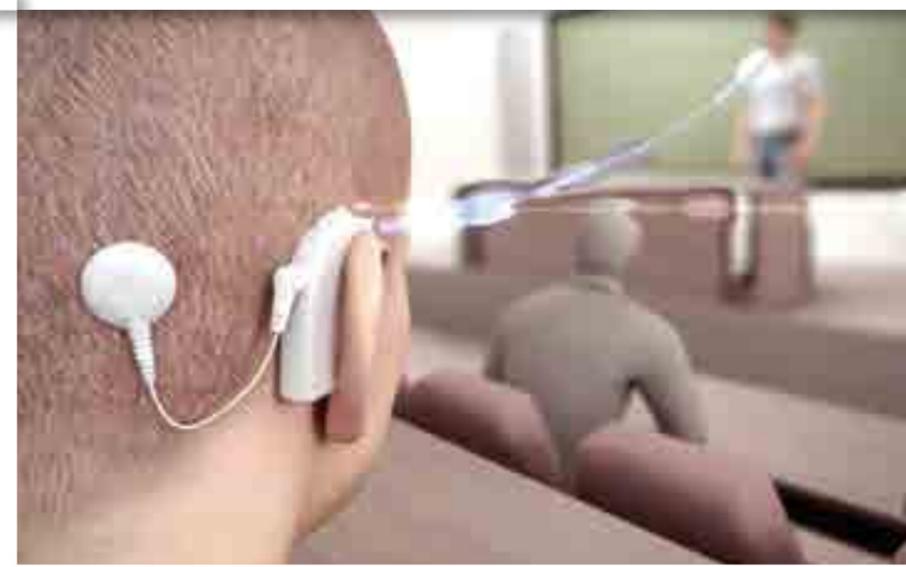
- Advanced Bionics HiRes Fidelity 120
- Competitor 1
- Competitor 2



Music is a meaningful addition to every stage of life. AB helps you enjoy the most of music with accessories that connect you to consumer electronics and technology that delivers the rich dimensions of sound. AB's HiRes Fidelity 120™ is the only sound processing that uses current steering and delivers five times more resolution than the competition.



# hear over distances



Hearing voices from afar is important for safety and learning, whether a parent is calling to a child across a playground or a teacher is speaking in a noisy classroom. Only AB's cochlear implant system offers advanced wireless communication technology from Phonak for the best possible hearing over distances.





# hear with wireless technology



AB delivers the ultimate in wireless connectivity for staying connected to the media that entertains you, the music that moves you, and the people who love you. Leading Accessline™ accessories provide wireless streaming from Bluetooth devices, phones, and countless other consumer electronics by popular brands, including Apple, Samsung, and Nokia.

Apple® is a registered trademark of Apple Inc.  
Samsung is a registered trademark of Samsung Electronics Co, Ltd.  
Nokia is a registered trademark of Nokia Corporation.



**PHONAK** | Partners for Better Hearing



### Phonak ComPilot *the three-in-one device*

- Wireless Streaming
- FM
- Remote Control



## hear bilaterally



Only AB offers Phonak Binaural VoiceStream Technology™ providing in sync hearing for two ears. Now music, FM, phone calls, TV shows, and countless other media can be wirelessly streamed from popular consumer electronics to two AB processors at the same time. AB is the best choice today if you are considering bilateral hearing now or in the future.



## hear bimodally



Combining patented technologies to deliver innovations that improve lives, AB and Phonak are the clear market leaders in bimodal hearing. An endless array of media from music and TV to FM and phone calls can be wirelessly streamed to both an AB sound processor and a compatible Phonak hearing aid at the same time.



# rising above the competition



Partners for Better Hearing

† Capability representative of software that is not commercially available from any cochlear implant manufacturer

	AB HiResolution™ Bionic Ear System	Competitor 1	Competitor 2	why it matters
Temporal Resolution (Stimulation Rate, pulses per second or pps)	Up to 83,000 pps	Up to 31,500 pps	Up to 50,000 pps	The faster the stimulation rate, the more accurate the timing of sound.
Spectral Resolution (Spectral Bands)	Up to 120	Up to 22	Up to 12	The higher the resolution, the more detailed and richer sound you hear.
Potential Pitch Percepts	460†	161†	Data not available	The more pitch percepts, the better the opportunity you have to differentiate complex sounds, such as music.
Input Dynamic Range (IDR) (Decibels or dB)	Up to 80 dB	45 dB	55 dB	The wider the range, the larger spectrum of sounds you hear.
Independent Current Sources	Multiple	Single	Multiple	Multiple independent current sources allow unique sound processing strategies.
Stimulation Phase Inversion	Yes	No	No	Stimulation phase inversion allows unique stimulation patterns intended to provide improved tonal clarity.
Sound Coding Strategies	ClearVoice, HiRes 120-S, HiRes 120-P, HiRes Optima-S, HiRes Optima-P, CIS, MPS	ACE, CIS	FSP, HP-CIS	Every ear is different, so the more sound strategies offered, the more options you have for hearing your best.
Natural Microphone Placement	Yes	No	No	With AB's T-Mic™, connect to audio devices like normal-hearing people do; enjoy natural, focused listening.
Case Impact Resistance	Up to 6 joules	Up to 1 joule	Data not available	The more joules your cochlear implant can resist, the more impact it can take without affecting performance. Enjoy peace of mind knowing that AB implants are Built Kid Tough™.
Removable Magnets for MRI Compatibility	Yes	Yes	No	AB cochlear implants are MRI safe for scans at 0.3T and 1.5T with the magnet removed.
Standard Electrode Type	Mid-scala, perimodiolar, lateral	Perimodiolar, lateral	Lateral	AB's electrode family accommodates individual patient anatomy and etiology with focused stimulation for the best hearing outcome.
Hearing In and Under Water	Yes	No	No	Only AB offers Neptune™, the world's first and only waterproof, swimmable sound processor; and AquaMic, the world's only underwater microphone.
100% Wireless Connectivity	Yes	No	No	Wireless streaming from all Bluetooth devices, phones, and countless other popular consumer electronics.
Bimodal Streaming	Yes	No	No	Stream voices and music wirelessly to both your Naïda CI processor and your Phonak hearing aid.
DuoPhone	Yes	No	No	Streams the caller's voice directly to both implanted ears for easier phone conversations.
ZoomControl	Yes	No	No	Provides the ability to focus on a speaker located on either side of the listener.
UltraZoom	Yes	No	No	Combining the Phonak dual-microphone UltraZoom feature with AB's ClearVoice sound processing results in a 55% improvement in speech understanding in noise. <sup>3</sup>
ClearVoice	Yes	No	No	Clinically proven to deliver significant improvement of speech understanding in noise.
ComPilot	Yes	No	No	100% wireless connectivity to mobile phones, computers, media players, televisions, navigation systems, Bluetooth-enabled products, and countless other devices.
QuickSync	Yes	No	No	One-touch control of two processors for the best bilateral hearing experience.

## choose Advanced Bionics for the best possible hearing

There is nothing more critical than performance when it comes to your ability to hear as close to normal as possible. Whether you are 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—which is why it is so important to choose the cochlear implant system that performs well in these challenging settings. AB & Phonak offer the world's most sophisticated technology for clear, high-resolution sound that helps you hear your best.



over distances • on the phone • music enjoyment • in noise • in all situations • bilateral • in and under water • wireless connectivity • bimodal

A central graphic featuring a collage of six circular images showing various lifestyle scenarios: a man talking on a mobile phone, a musician playing a drum set, a woman sitting at a table in a restaurant, a young child in a classroom setting, and an older woman smiling. The images are arranged around a central blue oval containing the 'autosound' logo and tagline.

# autosound™

hear your best in every environment