



ADVANCED  
BIONICS

POWERFUL CONNECTIONS

# HiRes Ultra 3D

HASSLE FREE MRI

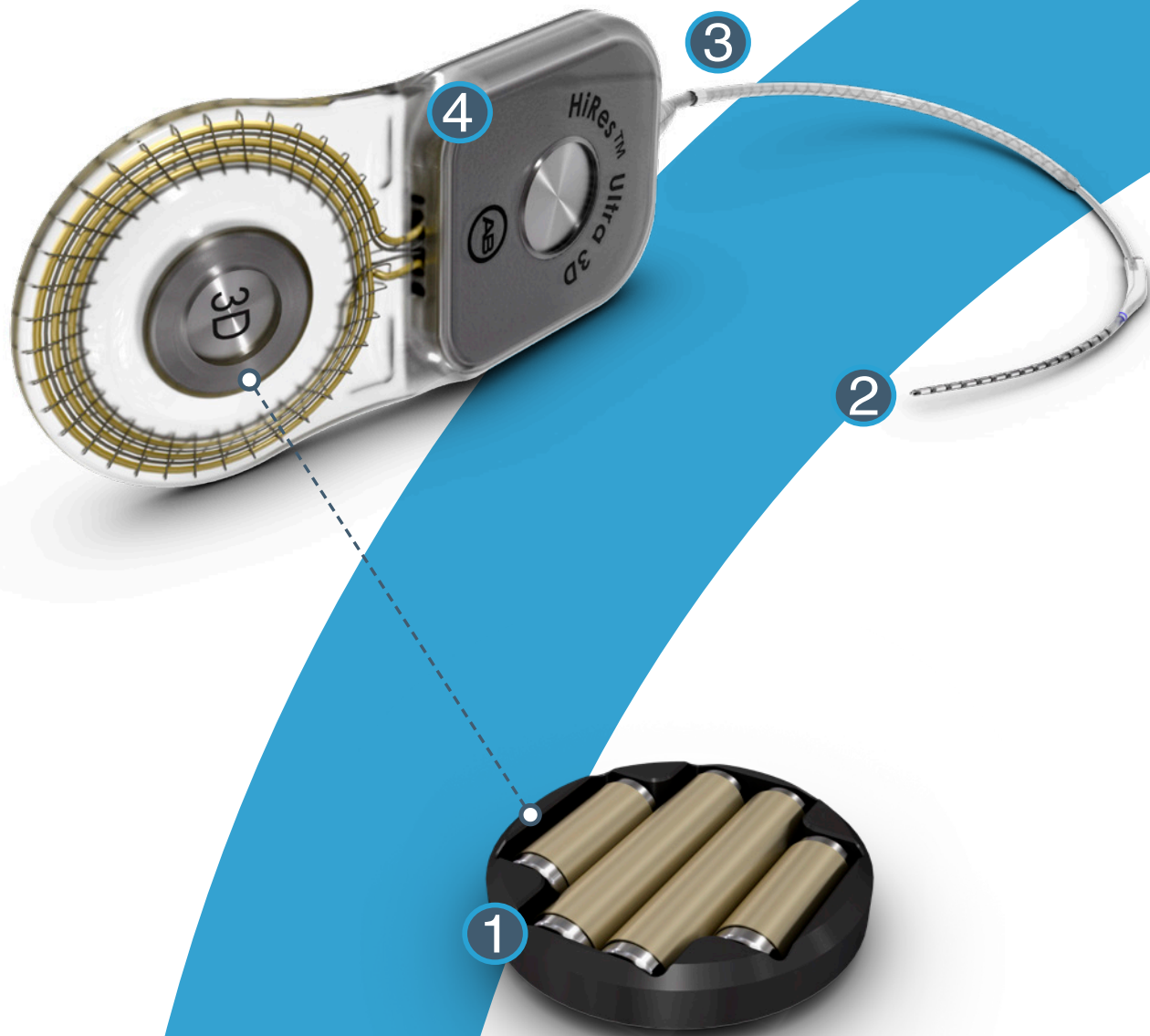


A Sonova brand

Introducing

# HiRes Ultra 3D

## COCHLEAR IMPLANT



1. **Hassle Free MRIs:** With a unique multi-magnet assembly that provides 3D magnetic field alignment, the HiRes™ Ultra 3D does not require any preparation—such as surgery, head bandaging or restrictions on head orientation—to receive a high-resolution MRI.
2. **Cochlea Structure Preservation:** Both the HiFocus™ SlimJ and the HiFocus™ Mid-Scala electrodes are designed to protect the delicate cochlea structures<sup>1,2,3,4,5</sup> and provide complete coverage of the cochlea for full-spectrum sound.<sup>6,7</sup>
3. **Intra-Operative Measurements:** HiRes Ultra 3D features a second grounding electrode that can be used for measurements taken in the course of the surgery.
4. **HiResolution Technology:** HiRes Ultra 3D is designed to deliver your patients the proven benefits of hearing clearer speech and a broader range of sounds. Under software control, the 16 independent current sources of the AB implant can steer stimulation to 120 separate locations along the cochlea, thereby increasing the amount of frequency information that can be delivered.<sup>8</sup>



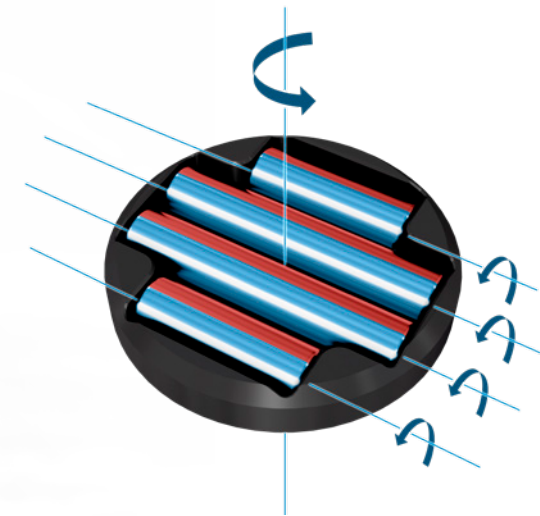


## HASSLE FREE MRI

We at Advanced Bionics believe that an MRI procedure should be hassle free for you and your patients. The HiRes Ultra 3D innovative multi-magnet assembly provides alignment to the 3D MRI field, allowing adult and pediatric users to safely undergo high-resolution imaging, such as 3.0 Tesla MRIs, **without any preparation, surgery or head bandaging.**

This unique multi-magnet assembly is composed of four rotatable magnet rods encased in a revolving frame that allows the magnet to provide alignment with the MRI field in all three dimensions.

If diagnostic procedures require a reduced-image artifact range, the magnet can be easily removed and replaced with a non-magnetic spacer through a small incision made prior to an MRI.



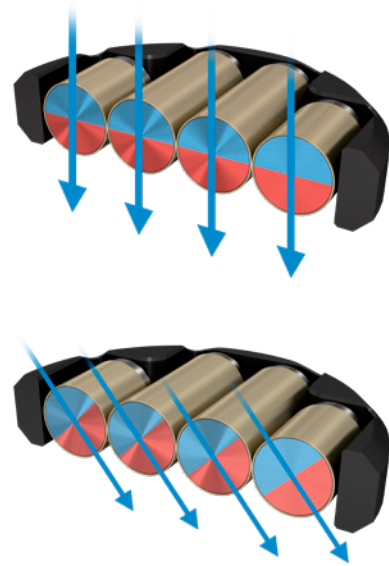
*Multi-magnet assembly providing  
3D magnetic field alignment*



## PAIN FREE

Going into an MRI tube is stressful, especially for your young patients. Our HiRes Ultra 3D cochlear implant requires no restriction on head orientation during an MRI, ensuring your patient a truly stress-free MRI experience.

The smooth movement of the multi-magnet assembly generates such low torque that adults and pediatric recipients feel no pain or discomfort due to magnetic pulling during a high-resolution imaging MRI.<sup>9,10,11,12</sup>



*The multi-magnet assembly adjusts to the variations in the magnetic field*







## UNINTERRUPTED HEARING

Eliminating the lengthy preparation procedures for a CI patient before an MRI saves time and hassle for you and for your patients.

With HiRes Ultra 3D, you don't need any special preparation for an MRI other than to ask your patients to take off their processor. When the scan is done, **all they have to do is put their processor back on to return to hearing.** With the HiRes Ultra 3D cochlear implant we provide your patients with uninterrupted hearing, which reduces the stress particularly with kids, who then have the ability to hear their parents right before and after the MRI scan.



*The HiRes Ultra 3D multi-magnet assembly has been tested to keep working even after two hundred 3.0 Tesla MRI routines<sup>13</sup>*



## THE FOUNDATION OF BETTER HEARING

Better technology means better hearing, and better hearing leads to better living. That is why every aspect of our HiRes Ultra 3D cochlear implant system has been optimized.

We are passionate about pushing the limits of technology to provide the most complete, natural and reliable hearing solutions possible for your patients.

Every aspect of our hearing technology also includes being gentle on the inner ear. For that reason all our HiFocus™ structure-preserving electrodes allow for the best possible hearing outcomes.<sup>1,14,15</sup>



*The HiRes Ultra 3D Cochlear Implant has been awarded the Medtech Breakthrough Award 2019 for Best Medical Device Solution.*





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