Harmony’s Spectral Resolution...delivers 5 times more sound than any other cochlear implant system

The REAL Story on Spectral Resolution
How Does Spectral Resolution Impact Everyday Hearing?

Harmony® HiResolution® Bionic Ear System by Advanced Bionics®

References
Choosing a cochlear implant system is a big decision. As a cochlear implant candidate or the parent of one, you want to hear better, not just the best system for you or your child. To make the right choice, it’s crucial that you compare the technology on the inside (the cochlear implant itself) as well as the technology on the outside (the sound processor). It’s important to note that you’re not just choosing one of the systems currently on the market. What you’re really choosing is one of the many different approaches to delivering sound to you. Cochlear implant electrodes stimulate different places in the inner ear. Part of hearing your best with a cochlear implant system. Choosing a cochlear implant system is a big decision. As a cochlear implant candidate or the parent of one, you want to know how to select the best system for you or your child.

Like normal hearing ears, cochlear implants take advantage of both of these electrical code called the “place” code because different information, to the inner ear. Pitch is the highness or lowness of a tone. In normal-hearing ears, spectral resolution refers to how well the cochlear implant delivers frequency, or “pitch” information to the brain. Your cochlear implant electrodes stimulate different places in the inner ear. Part of hearing your best with a cochlear implant system. Choosing a cochlear implant system is a big decision. As a cochlear implant candidate or the parent of one, you want to know how to select the best system for you or your child.

Historically, spectral resolution has been limited by the number of electrodes available on the cochlea. The number of electrodes that could be delivered on limited the number of spectral bands that could be represented. In this way, the cochlear implant system was somewhat like a television with only a limited number of channels. However, as the technology improved, it became possible to increase the number of electrodes available on the cochlea. With more electrodes, it became possible to deliver more frequency information to the brain. However, in order to stimulate two different electrodes at the same time, multiple current sources are required.

Harmony System’s HiRes® 120 is designed to deliver the pitch and timing of sound with the greatest accuracy so that you can hear and enjoy music or hear well in noise like people with normal hearing do. Only HiRes® 120 from AB:

• Provides the ability to stimulate two or more electrodes at the same time. This simultaneous stimulation means you can hear additional pitches when current steering is implemented. In fact, some AB recipients have reported that what it means and why it matters.

Harmony’s Spectral Resolution
What it means and why it matters

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Harmony’s Spectral Resolution gives you the best possible hearing experience. Choosing a cochlear implant system is a big decision. As a cochlear implant candidate or the parent of one, you want to know how to select the best system for you or your child.

Temporal Resolution
Spectral Resolution

Harmony’s Spectral Resolution gives you the best possible hearing experience.