

Cochlear™ Nucleus® 6 System

Simply Smarter

in every hearing situation



Hear now. And always


Cochlear®

Welcome

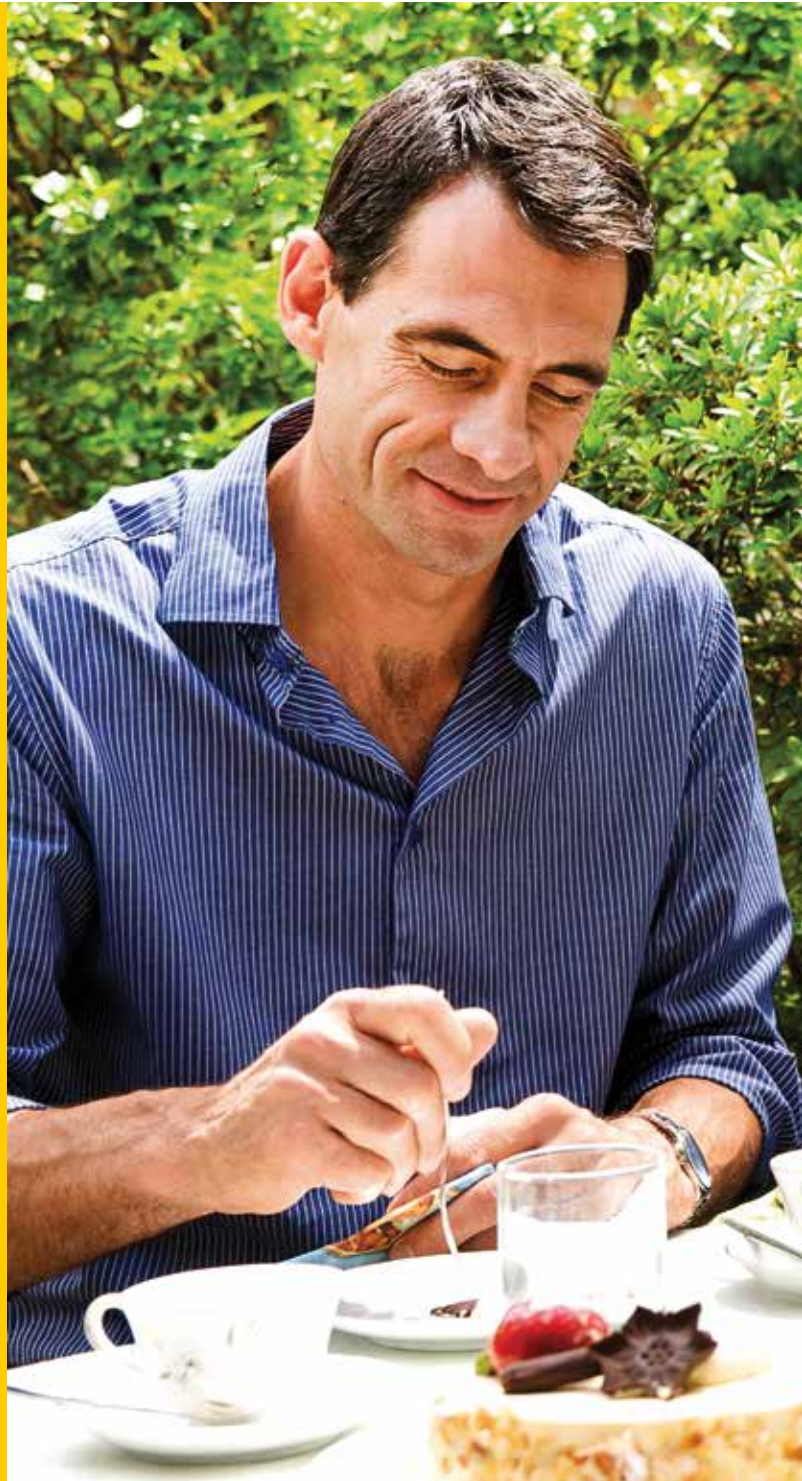
to a world of simply smarter hearing

If you are struggling to hear well in noisy situations such as restaurants or family gatherings, finding it difficult to talk on the phone or straining to hear the TV even when the volume is turned up, a Cochlear™ Nucleus® 6 System could be suitable for you.

Our Cochlear Nucleus 6 System is the latest in a long history of Cochlear innovation. It is our smartest system yet, and is also highly automated, making it simple to use.

Around the world hundreds of thousands of people are already enjoying the benefits of hearing with one of our systems.

Let us explain how you could welcome back your hearing and be more independent again.





When I had
my cochlear implant
it was just as near to normal
as I could imagine.
I was just so happy!

Lois Harlen
Cochlear implant recipient since 2008

Enjoy simply smarter hearing

How it works

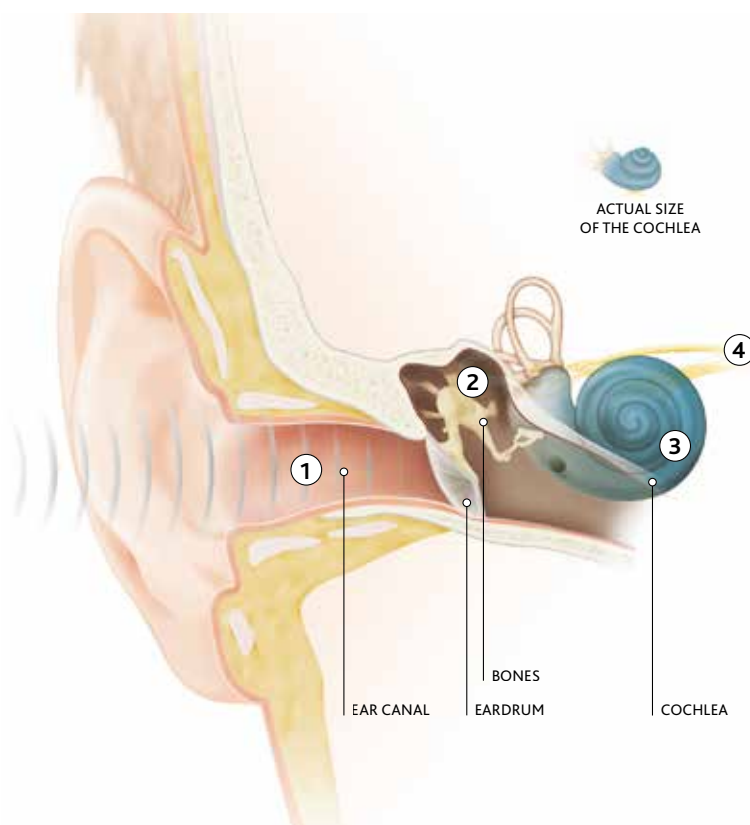
A cochlear implant system bypasses the parts of your ear that no longer work properly, delivering electrical signals via the hearing nerve to the brain, where they are interpreted as sound.

Sound can be categorised into two types:

- Low frequency – providing the foundation and structure of sound like vowel sounds and the melody of speech – these are important for voice recognition and detecting emotion;
- High frequency – providing the additional vital details of sound, helping you identify and differentiate words and improving quality and clarity – these are important for speech understanding, particularly in noisy situations.

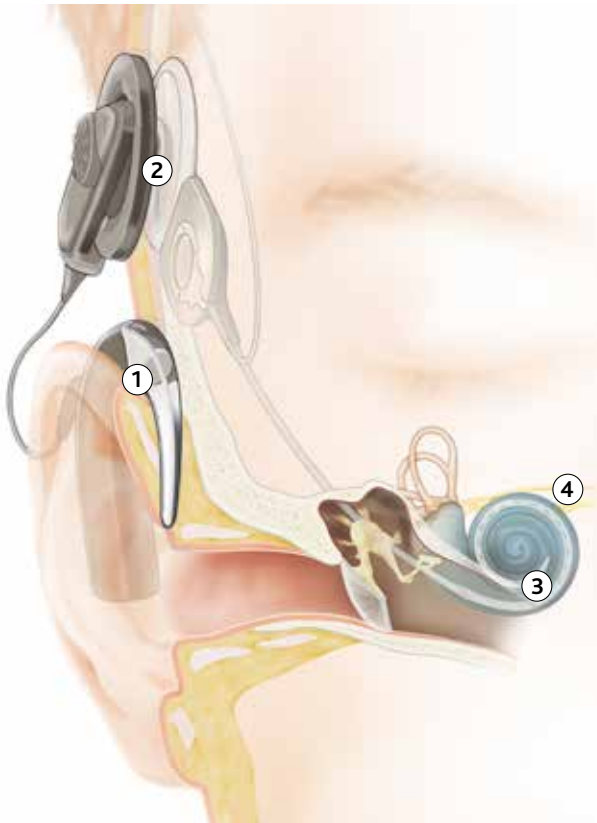
Most people with hearing loss begin to lose high frequencies first, and may still have the ability to hear low frequency sounds.

Cochlear's range of implants is carefully designed to preserve as much as possible of any hearing you may have left. If you do have any residual hearing, this can be maximised by adding on the acoustic component of our system. This gives you the benefit of boosting your remaining hearing and combining it with your newly augmented hearing.



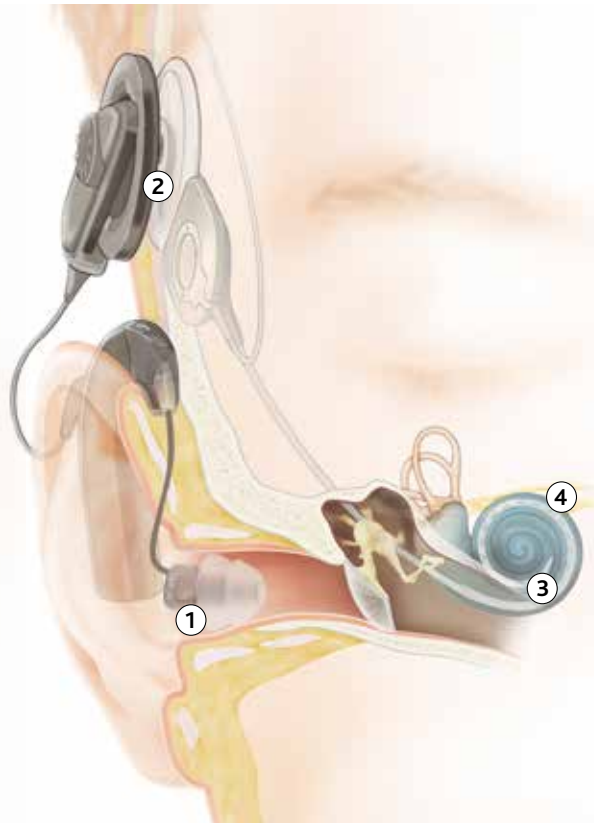
HOW HEARING WORKS

1. Sound waves travel through the ear canal and strike the eardrum.
2. These sound waves cause the eardrum and the three bones within the middle ear to vibrate.
3. The vibrations are transferred to the fluids in the inner ear – known as the cochlea – and cause the tiny hair cells in the cochlea to move.
4. The movement of the hair cells produces neural impulses which are sent along the hearing nerve to the brain, where they are interpreted as sound.



HEARING WITH A COCHLEAR IMPLANT

1. Microphones on the sound processor pick up sounds and the processor converts them into digital information.
2. This information is transferred through the coil to the implant just under the skin.
3. The implant sends electrical signals down the electrode into the cochlea.
4. The hearing nerve fibres in the cochlea pick up the signals and send them to the brain, giving the sensation of sound.



HOW THE ACOUSTIC COMPONENT WORKS

1. The acoustic component, like a hearing aid, amplifies low frequency sounds and sends them via the normal hearing pathway.
2. At the same time, the processor converts high frequency sounds to digital information which is sent to the implant under the skin.
3. The implant sends electrical signals down the electrode into the cochlea, stimulating the nerve fibres.
4. This nerve response is sent to the brain, where it is combined with the response from the amplified sounds from the acoustic component into a perceived sound.

Nucleus 6

Simply smarter

The Cochlear Nucleus 6 System is our most advanced hearing solution to date, designed with a clear purpose – to help you simply enjoy smarter hearing.



Two microphones work together to focus on sounds coming from **particular directions**, and suppress other unwanted noise.



Our new chip is **five times more powerful** than the industry leading Nucleus 5 System chip, enabling **automated sound technologies, wireless capabilities** and so much more.



Simply designed around you

- Easy to use – works automatically but also comes with personal control options.
- Small, light and ergonomically designed for all day wearing comfort.
- A choice of wearing, styling and power options to suit every lifestyle.
- Comes with an innovative water repellent coating on the surface of the sound processor so you can relax around water and be confident it will keep on working.
- Built to last for a world of reliable hearing.

Smarter hearing made easy

- Our intelligent sound management system, SmartSound® iQ, automatically adapts to your environment for a better hearing experience.
- Enjoy the best of both worlds with the all-in-one cochlear implant and hearing aid configuration.
- Wireless ready for a range of wireless accessories under development.

Enjoy peace of mind

- Enjoy a lifetime of commitment from Cochlear – everyone who chooses to hear with our products will always have access to support and sound processor upgrades.
- Globally, seven out of ten people who choose an implantable hearing solution choose Cochlear.

Simply smarter in every hearing situation

SmartSound® iQ

The Cochlear Nucleus 6 System is the only implantable hearing solution with SmartSound iQ, the world's most intelligent –and fully automated – sound management system.

The world is made up of many different types of sound that can be challenging for people who have difficulty hearing.

To give you the best hearing outcome every time, you need a system that can manage these different types of sound automatically, so you don't have to think about it.

SmartSound iQ has a range of individual technologies that are designed to work together seamlessly to help you enjoy the best of your hearing world.





*It's just changed my life and
my family's life as well.*



Shirley Moss
Cochlear implant recipient since 1998

Simply smarter in every hearing situation

SmartSound iQ



SmartSound iQ meets your needs in every listening environment by selecting the best from a unique range of specifically designed technologies. It does this automatically so you can be confident you will hear your best in every hearing situation.

**SPEECH IN NOISE**

Have a conversation in noisy surroundings like a busy café

**SPEECH**

Hear clearer and crisper speech

**NOISE**

Hear comfortably in noisy situations

**WIND**

Hear comfortably in the windy outdoors

**QUIET**

Appreciate soft sounds in quiet environments

**MUSIC**

Enjoy listening to the music you love

Make the most of your natural hearing

Smart all-in-one design

Nucleus 6 is capable of operating both as a hearing aid and a cochlear implant system simultaneously and seamlessly. Your natural hearing will be boosted by the hearing aid, and complemented by your cochlear implant.

At the time of choosing an implantable hearing solution, you may still have some limited hearing. The Cochlear Nucleus 6 System is designed to support as much of your natural hearing as possible. The all-in-one hearing aid and cochlear implant design will work simultaneously, interactively, and seamlessly to improve your hearing.

With the Cochlear Nucleus 6 System, your hearing professional can easily change the earhook on your sound processor to accommodate the acoustic component. This is accomplished in a few simple steps.

This is all possible in the one, smarter, system.





*I am in the world with sound
all around me.*



Donna Brown
Cochlear implant recipient since 2005

Connect today and be wireless ready

Smart connectivity solutions

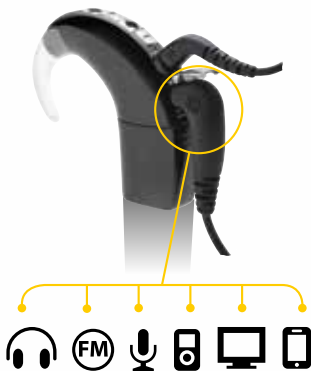
TALK ON THE PHONE LIKE ANYONE ELSE

Using the phone – both landlines and mobile phones – has never been easier. Just put the phone next to your ear and the Cochlear Nucleus 6 System detects the signal and switches on the inbuilt telecoil automatically to optimise your hearing on the phone.

There is no need to plug anything in, no need to change anything on your system – just hold the phone to your ear. Simple.

CONNECT TO AUDIO TODAY

With our range of accessories you can connect your sound processor directly to the television or MP3 players and it will automatically adjust the settings to optimise your listening enjoyment.



Everyday, I know that I've got a day of fun ahead of me, a day of interest, a day of involvements, a day of doing something constructive.

Bob Ross

Two cochlear implants recipient since 2009



WIRELESS READY

The processing power of the new chip inside Nucleus 6 creates exciting new opportunities in device connectivity.

The system has already been designed to take advantage of advanced wireless technology.

With a simple software upgrade under development, your sound processor will be able to connect to a wide range of wireless audio accessories that will also be compatible with ReSound hearing aids – no more cables or neck worn devices.



Options to suit your lifestyle

Smart design features

From the smallest sound processor made from the toughest materials, to a wide range of colour and battery options, the Cochlear Nucleus 6 System gives you the freedom to live life to the fullest.

THE SMALLEST PROCESSOR AVAILABLE

The CP920 Sound Processor is not only stylish, it is also the most compact on the market. Alternatively, if you want to use plug-in accessories, you can choose the CP910. Both sound processors will be able to work with a range of wireless audio accessories under development.



CP910 Sound Processor
with accessory hatch

CP920 Sound Processor



CARBON

MAIZE

MOCHA

SMOKE

SUBTLE SHADES

The Nucleus 6 Sound Processors come in a variety of colours designed to blend in with hair and skin tones.



A DIFFERENT LOOK EVERY DAY

With a range of 12 sound processor and coil covers in bright colours and patterns, you can even choose one to match your outfit.



SIMPLE CONTROL

A discreet pocket-sized remote control with a handy display screen allows you to adjust simple settings without touching your sound processor.

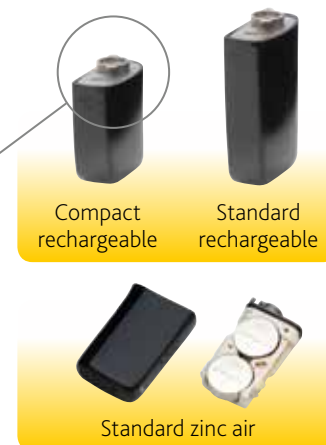
ADVANCED MONITORING

The intuitive design of the full-featured remote assistant puts you in control of monitoring and managing your own hearing.



BUILT TO LAST

Nucleus 6 Sound Processors are built from tough materials to withstand even the most active lifestyle. Titanium bayonet connectors bring strength to the core of the processor for easy, reliable connection and disconnection of battery modules.



KEEPING YOU ON AIR, EVERYWHERE

Nucleus 6 comes with a choice of standard or compact rechargeable batteries. For times when you're away from a power source you can easily change to the standard disposable option that offers up to 60 hours of battery life.



SAFE AND SECURE

Our specially designed Snugfit accessory will keep your sound processor safely on your ear, even when you're at your most active.



MORE WEARING COMFORT

Our range of soft earhooks has been ergonomically designed for maximum comfort and to fit different ear sizes.

Be confident in and around water

Smart water-resistant design

Take a walk in the rain, splash around in the pool, soak in the bathtub, or even enjoy water aerobics – with Nucleus 6 you can relax around water and be confident your system will keep on working.

With an IP57* rating, no behind-the-ear worn processor is more water resistant than Nucleus 6.

And now with Nucleus 6, each sound processor has an advanced water repellent coating, making it more reliable around water than ever before.



* With rechargeable batteries.

WATERPROOF

If there are times when you need something completely waterproof, the new Aqua Accessory* enables you to dive right in without compromising your hearing. It is easy to use and will fully protect your system.



Manage your hearing with ease

Smart control

While the Cochlear Nucleus 6 System has been designed to adjust to your environment automatically, we understand that you may want to get more involved in monitoring and managing your own hearing.

The wireless hand-held CR230 Remote Assistant puts you in charge, whether you just want to check the status of the battery or if you would like to solve simple issues without having to return to the clinic.

The two-way communication between the remote assistant and the sound processor also allows you to see how your sound processor is working – the full colour LCD screen shows you at a glance which programme or environment setting you are in at any time.



- Intuitive full colour LCD screen.
- One button check to monitor the status of the processor, battery, coil and cable.
- Adjust the telecoil settings for phone use.
- Available in local languages.
- USB port for future exchange of information with hearing clinic.



A lifetime of reliable hearing

Smart design

As technology develops and sound processors become even more powerful, the sophisticated electronics in the implant have the capacity to support these advancements. This ensures your hearing performance can improve as technology advances without the need for further surgery.

QUALITY SOUND

- The greatest number of real electrodes designed to deliver a finer representation of sound.
- Proven 22 channel electrode configuration allowing listeners to distinguish a greater number of pitches (up to 161 intermediate pitches) for a more natural experience of sound.

RELIABILITY

- The Nucleus CI24RE Cochlear Implant has been used to help improve hearing in over 90,000 ears around the world.
- It is made with the toughest and most resilient materials available.
- It has the best long-term reliability record in the industry – 99% over eight years with over 90,000 implants.

MRI

- Rest assured that should you ever need a MRI, a commonly used medical diagnostic tool, you can still have one.
- The Nucleus Cochlear Implant is the only one approved for scans up to 1.5 Tesla (the most commonly used level) without needing to remove the magnet and also capable of accommodating imaging at 3 Tesla with the magnet removed.



SHAPED TO FIT NATURALLY

As the leaders in innovative design, our engineers pioneered the shape of our electrodes to fit the natural curves of the cochlea for improved performance. This is important for protecting the delicate structures within the cochlea to preserve as much hearing as you may have left.



A RANGE OF ELECTRODES

We recognise that not everyone's ears are the same, so with Cochlear's unique range of electrodes that come with this implant your health care professional can choose the right option to suit your individual needs.



Electrodes have been enlarged to show detail.

Enjoy a lifetime of improvement

Our commitment to you

When new technologies come along, Cochlear Nucleus users have a distinct advantage.

Whether you received your implant over 30 years ago or yesterday, our committed teams work passionately to develop new technologies that will give you the best hearing possible throughout your lifetime.

Our earliest Nucleus Cochlear Implant users have had access to five sound processor upgrades.

Our dedication to ensuring that new generations of sound processors are compatible with our earliest implants ensures you are not left behind as science progresses.

It is a commitment from the global leader, backed by the industry's largest investment in research and development and the largest collaboration programme between leading specialists around the world.

This means that with Cochlear, your hearing just keeps getting better without the need for further surgery.

*I feel I'm hearing
the best I've ever heard
for 25-30 years.
There's no situation that's
too challenging for me!*



Jennie Brand-Miller
Cochlear implant recipient since 1998

Welcome

to the Cochlear family

When you set out on the journey of lifelong hearing improvements with a Cochlear system, you join our family too – a family that includes over a quarter of a million people who hear with a Cochlear implant system around the world.

It also includes a family of over 2,500 Cochlear employees that are passionate about hearing and take what they do very seriously. We employ some of the most skilled professionals from around the world with

specialists in hearing technology, experts from different fields of engineering, audiology and speech and language pathology.

As a pioneer of implantable hearing solutions, we remain at the forefront of the industry and are constantly finding new and innovative ways to further improve your hearing. We make the largest investment in the industry into research and development of new technology for those who use our solutions today as well as future generations.



7/10

Globally, seven out of ten people who choose a cochlear implant choose Cochlear.

Our development programme includes collaboration with world-leading experts in a variety of medical and scientific fields. We have more than 100 active research partners across 20 countries.

Wherever you go in the world, Cochlear is there to support you. Nucleus 6, like every Cochlear product before it for 30 years, is built on a commitment to lifetime support. Our solutions will continue to grow with you, every step of the way.



Professor Graeme Clark AC
with recipients at the Cochlear Celebration,
San Diego, USA, February 2013

Hear now. And always

As the leading global expert in implantable hearing solutions, Cochlear is dedicated to bringing the gift of sound to people all over the world.

For thirty years, Cochlear has pioneered this technology, helping more than a quarter of a million people reconnect to their families and friends.

Along with the industry's largest investment in research and development, we continue to partner with leading international researchers and hearing professionals, ensuring that we are at the forefront of hearing science.

For our customers, that means access to our latest technologies throughout their lives, and the ongoing support they need.

That is why seven out of ten people worldwide who choose a cochlear implant choose Cochlear as their hearing partner.



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