

Hear now. And always

As the global leader in hearing solutions, Cochlear is dedicated to bringing the gift of sound to people all over the world. With our hearing solutions, Cochlear has reconnected over 250,000 people to their families, friends and communities in more than 100 countries.

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 in the science of hearing.

For the hearing impaired receiving any one of Cochlear's hearing solutions, our commitment is that for the rest of their life they will Hear now. And always

Delivering best hearing performance

The latest Cochlear™ Nucleus® System

A COCHLEAR IMPLANT HEARING SOLUTION



A hearing life

At Cochlear™ we understand that hearing well is not all you want for yourself or your child. You also want a happy, connected family and social life. You want to talk on the phone, join a conversation in a busy restaurant, be part of a team and make the most of your career. You want your child to be able to attend a mainstream school, enjoy music and join friends in playground games. So we have created a new hearing solution to help make all this happen.

SOUND PROCESSOR

The Cochlear Nucleus® 5 Sound Processor (CP810) is not only stylish and comfortable but also gives you best hearing performance by adjusting to different environments, from busy streets, classrooms and noisy restaurants to quiet times at home. It is also designed to stay securely in place during playtime or sports activities. Its exclusive water resistant design means there is no need to worry about unexpected splashes, sweat or rain.

REMOTE ASSISTANT

The easy-to-use Cochlear Nucleus 5 Remote Assistant (CR110) lets you choose how you manage your own or your child's hearing. More than just a remote control, the Nucleus 5 Remote Assistant allows you to adjust your sound processor's settings and functions as a complete monitoring and troubleshooting system. And even if the remote assistant is not available you can still control your hearing directly from the sound processor.

COCHLEAR IMPLANT

Since launching the world's first cochlear implant system in 1982, reliability has been a focus for Cochlear. Since then, many thousands of people have received a Cochlear manufactured cochlear implant and we have continued to improve every detail. Our ongoing commitment to continuous improvement has resulted in the CI24RE Series implants, the world's most reliable cochlear implants.^{1,3}

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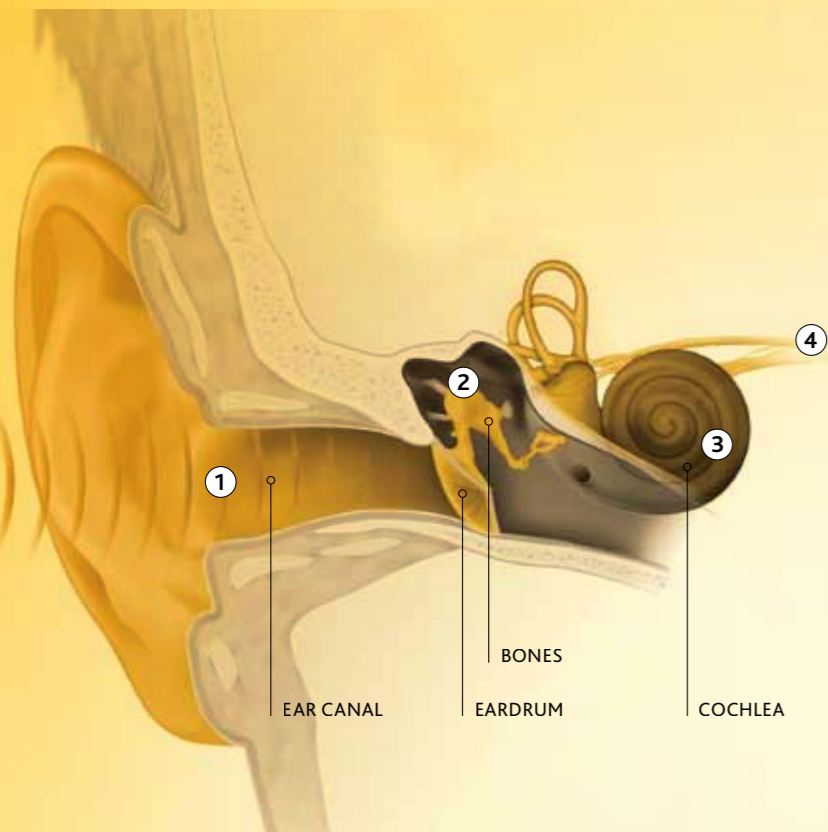
Hear now. And always



How hearing works

Natural hearing.

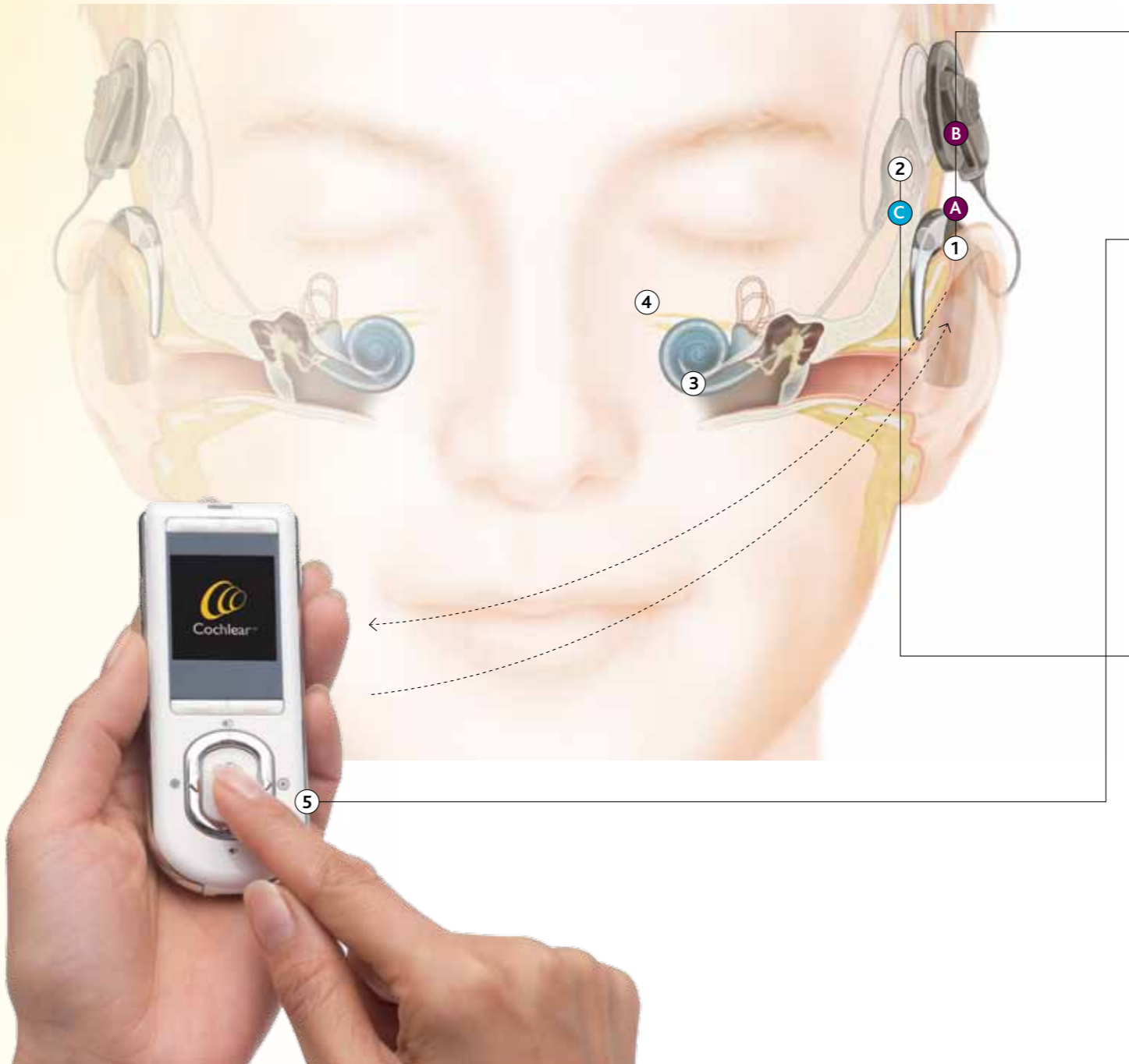
- 1 Sound waves travel through the **ear canal** and strike the **eardrum**.
- 2 These sound waves cause the eardrum and the three **bones** within the middle ear to vibrate.
- 3 The vibrations are transferred to the fluids in the inner ear – known as the **cochlea** – and cause the tiny hair cells in 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™ Nucleus® System.

The Cochlear Nucleus System has both external and internal parts:

- The **sound processor A** with **coil B** is worn behind the ear
 - The **implant C** is placed just under the skin, behind the ear
- 1 The sound processor captures sounds and converts them into digital code.
 - 2 The sound processor transmits the digitally coded sound through the coil to the implant just under the skin.
 - 3 The implant converts the digitally coded sound to electrical signals and sends them along the electrode array, which is positioned in the cochlea.
 - 4 The implant's electrodes stimulate the cochlea's hearing nerve fibres, which relay the sound signals to the brain to produce hearing sensations.
 - 5 You manage your hearing via the remote assistant or directly from the sound processor.



References

- 1 Cochlear regularly publishes the reliability of Nucleus Implants to the public according to International Standard ISO 5841-2000 and the reporting principles described in the European Consensus Statement on Cochlear Implant Failures and Explanations. Nucleus Report September 2011
- 2 MED-EL (2011). Outstanding Reliability Data. <http://www.medel.com/int/show/index/id/280/titel/Outstanding+Reliability+Data> [accessed: 16 September 2011]
- 3 Advanced Bionics (2011). Advanced Bionics Technology and Reliability report 2011, FEB11_3-01131-B-Rev1
- 4 White paper: Cochlear Nucleus 5 delivering superior performance in noise. N34209F ISS1 Dec 2009
- 5 Study A: Wolfe, J. 2010. Assessment of Performance of Cochlear Implant Recipients Upgrading to the Cochlear Nucleus 5 System. Presentation at the 11th International Conference on Cochlear Implants and other Implantable Auditory Technologies, Stockholm June/July 2010
Study B: Müller-Deile, J., Brademann, G., Hessel, H., Hey, M. 2010. Signal pre-processing Beam and Zoom can improve listening in noise with CP810 sound processor. Presentation at the 11th International Conference on Cochlear Implants and other Implantable Auditory Technologies, Stockholm June/July 2010.
Study C: Dillier, N., Lai, W.K. 2010. Speech intelligibility in various noise conditions with the Nucleus 5 system sound processor. Presentation at the 11th International Conference on Cochlear Implants and other Implantable Auditory Technologies, Stockholm June/July 2010
- 6 Average improvement in Speech Reception Threshold (SRT) was 10.5 dB. A 10 dB increase in SPL is perceived as a doubling in loudness/intensity (Bentley, S., Murphy, F., Dudley, H. 1977. Perceived noise in surgical wards and an intensive care area: an objective analysis. British Medical Journal, December 1977, 1503-1506)
- 7 When using a rechargeable battery module, the Nucleus 5 Sound Processor has a dust and ingress protection rating of IP57 (i.e. protection against penetration of solid foreign object ≥1.0 mm diameter, failure from dust penetration, failure from temporary immersion in water). When using a standard battery module (with Zinc Air batteries), the Nucleus 5 Sound Processor has a dust and ingress protection rating of IP44 (i.e. protection against penetration of foreign solid foreign objects ≥1.0 mm diameter, failure from splashing water). The Nucleus 5 Remote Assistant has a dust and ingress protection rating of IP44. IP44 and IP57 are rated according to International Standard IEC 60529
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- 9 Cohen, L., Richardson, L., Saunders, E., Cowan, R. Spatial spread of neural excitation in cochlear implant recipients: comparison of improved ECAP method and psychophysical forward masking. Hearing Research 179 (2003) 72-87
- 10 Kwon, J., van den Honert, C. Dual-electrode pitch discrimination with sequential interleaved stimulation by cochlear implant users. The Journal of the Acoustical Society of America, 2006, 120(1), EL1-EL6
- 11 Cochlear update March 2006. Pitch Steering with Sequential Stimulation of Intracochlear Electrodes. Cochlear, 2006, FUN656 ISS1 MAR06
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- 15 Aschendorff, A., Kromeier, J., Klenzner, T., Lászig, R. Quality Control after Insertion of the Nucleus Contour and Contour Advance Electrode in Adults. Ear and Hearing, 2007, 28, 755-795
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- 17 Cullen, R., D., Fayad, J., N., Luxford, W., M., Buchman, C., A. Revision Cochlear Implant Surgery in Children. Otolaryngology & Neurology, 29(2):214-220 2008 Feb
- 18 Brown, K., D., Connell, S., S., Balkany, T., J., Eshraghi, A., E., Telischi, F., F., Angeli, S., A. Incidence and Indications for Revision Cochlear Implant Surgery in Adults and Children. The Laryngoscope 119: January 2009: 152-157

1998

The first multi-channel behind-the-ear sound processor.

2000

Introduction of the award-winning Nucleus 24 Contour™ perimodiolar electrode array.

2005

First Nucleus Freedom splashproof behind-the-ear sound processor.

2008

Nucleus Freedom Sound Processor compatible with every implant ever manufactured by Cochlear.
Introduction of Hybrid™ product line.

2011

More than 250,000 people worldwide benefit from Nucleus cochlear implants or Baha® bone conduction hearing solutions.
Nucleus 5 Sound Processor backwards compatible with Nucleus 24 and Freedom Implants.

The latest Cochlear Nucleus System solution.

Building on our industry-leading technology, we have created a compact, sophisticated new sound processor and remote assistant that give you or your child every opportunity to achieve full hearing potential. Combined with the world's most reliable implant, these provide a complete hearing solution that delivers incomparable reliability, performance, comfort and ease of use.

SOUND PROCESSOR

Hearing performance.
Phone use made simple.
Style, comfort, flexibility.



REMOTE ASSISTANT

Optimising your hearing.
Monitoring and troubleshooting system.



PARENTS' SECTION

Be confident your child is hearing.
Designed for an active life.



IMPLANT

Delivering choice.
Leading reliability.



LIFETIME COMMITMENT

Hear now. And always

page 18

Hearing performance like no other

The Nucleus 5 Sound Processor (CP810) and Remote Assistant (CR110) provide you with industry-leading hearing performance in a small, stylish and sophisticated format. Together they allow you to manage your hearing at the touch of a button. Power and simplicity combined.



DUAL MICROPHONE ADVANTAGE

The Nucleus 5 Sound Processor features a unique dual microphone system that has demonstrated improved hearing performance in global trials⁴, compared with the previous industry benchmark set by the Nucleus Freedom™ Sound Processor.

In three separate and independent scientific studies⁵, Nucleus 5 recipients using dual microphones were able to manage twice as much background noise⁶ without any decrease in understanding.

Better hearing in any environment.

The world is made up of many different hearing environments, from the quiet of the office to a noisy shopping centre or busy street; from listening to the radio to the noise of the playground. As with normal hearing, it is important that any hearing solution can adjust automatically as you move through these settings.

Cochlear's sound enhancement technology SmartSound enables you or your child to adapt to various listening environments. Your clinician will use the SmartSound technology to programme your sound processor, ensuring best hearing in any environment. It is natural for you or your child to want the best hearing experience and to live life's moments to the full. We make this possible.

THE CONFIDENCE TO GO MORE PLACES

SmartSound features the "hands-free" Everyday setting, which intelligently and automatically adjusts your device to a wide range of everyday situations such as the home or workplace. Simply turn on the processor and you are ready to go – Everyday does the rest.

Noise, Focus and Music are "power programmes" that give you an extra boost in unusually demanding situations, which is only possible with two microphones.

SmartSound programmes can be accessed via the sound processor buttons or the remote assistant.

SMARTSOUND PROGRAMMES



Everyday

Everyday is the standard setting that will take you through your whole day. It delivers improved hearing in typical situations such as the family home or workplace by automatically adjusting to your listening environment.



Noise

Noise provides the best possible hearing in excessively noisy situations by using dual microphone technology which filters sound coming from the side and behind.



Focus

Focus makes it easy to understand a person in front of you even when there is variable background noise. It uses dual microphone technology to reduce specifically the most significant noise source from the side or behind.



Music

Music is designed to be beneficial when listening to a variety of music; either live or via an audio source such as an iPod®.

Phone use made simple

Communicating on the phone is an important part of everyday life. Only Cochlear has automatic phone detection that makes calling friends and family easier than ever. When you pick up the phone and put it to your ear, the Nucleus 5 Sound Processor automatically detects the signal and switches on the Auto Telecoil to optimise your hearing for phone use. No more button-pressing required.

Your Nucleus 5 Sound Processor automatically activates the in-built Telecoil when you listen to speech transmitted by a Telecoil accessory such as a telephone. Also, when you enter an area covered by an installed induction loop system, such as a lecture hall, church or public place, the Telecoil in the Nucleus 5 Sound Processor automatically picks up the speech signal. You hear these sounds clearly and without reverberation, irrespective of the level of background noise or room echo.



Simply hold the telephone to your ear and the Telecoil automatically switches on. It's that easy!

CONNECT

With the Nucleus 5 Sound Processor, you can connect to a broad range of audio devices. Cables are designed for use with one or two processors.

ACCESSORIES – HEAR EVERYWHERE WITH EASE

Cochlear has developed a range of accessories to extend hearing enjoyment. Options are available to connect to MP3 players, the television and FM systems.

SUPPORT FOR FM – INCLUDING DYNAMIC FM

The euro accessory adapter enables easy and secure connection of ear-level FM receivers with a Euro 3 pin type connector to the Nucleus 5 Sound Processor.

The Nucleus 5 Sound Processor supports the latest breakthrough in ear-level FM – Dynamic FM from Phonak. The ML14i* from Phonak connects directly into the Nucleus 5 Sound Processor accessory port without the need for an adaptor.

EASY TO USE

All essential functions, such as change programme, adjust volume or sensitivity and processor on/off, can be accessed directly through the buttons on the sound processor or by using the remote assistant.



* This product may only be purchased from Phonak.

Style, comfort, flexibility

The Nucleus 5 is our smallest ever sound processor. Stylish, slim and sophisticated, the processor is ergonomically designed to fit ears of all sizes comfortably and discreetly. It is also robust and flexible. You can relax in the knowledge that the processor will enable you or your child to lead an active social life, whether indoors or out.

WATER RESISTANT

Independently tested to a high standard of water resistance, the Nucleus 5 Sound Processor gives you the freedom to work up a sweat or relax by the water – and know your sound processor will keep working.⁷

BE ACTIVE

During sport and play the Snugfit™ holds your sound processor in position comfortably and securely. The tiny, highly sophisticated microphones are at the heart of a sound processor's effectiveness. So it is important to protect them from the sweat, dirt and grime of a normal and active lifestyle. Cochlear is using GORE® Protective Vents for the microphone protectors to protect the microphones without compromising sound quality.





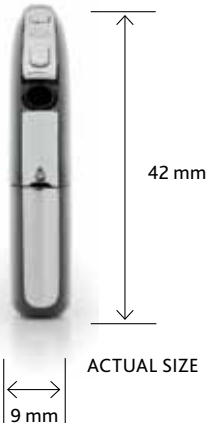
STYLE

The sound processor is elegantly designed with a chrome trim. You can also personalise your device by choosing from a wide range of exclusive covers featuring stylish colours and patterns that blend in with your skin and hair tones.



CHARCOAL SAND WHITE BROWN BLACK

FLORAL COVER (example)



COMFORT

At just 9 mm thin, the Nucleus 5 is our smallest sound processor ever for maximum wearing comfort.

FLEXIBILITY

With disposable and rechargeable batteries we offer you powerful battery choices.

Rechargeable

Rechargeable batteries are a convenient, cost-effective and environmentally friendly option. The compact rechargeable battery lasts up to 18 hours and the standard rechargeable module has a battery life of up to 31 hours.

Disposable

Offering long-range battery life of up to 60 hours, the standard battery module offers maximum operation times between battery changes. It is also ideal for times when there is no access to recharging.



COMPACT RECHARGEABLE



STANDARD RECHARGEABLE



STANDARD

Optimising your hearing

The Nucleus 5 Remote Assistant gives you complete confidence in your sound processor. Not only does it allow you to wirelessly manage all of your Nucleus 5 Sound Processor's functions, it also confirms that all is working well.

Even if your remote assistant is out of reach, you can still manage your hearing using the two buttons on your sound processor. Users with two Nucleus 5 Sound Processors only need one remote assistant, as this manages both the left and right sound processor at the same time.



TWO IMPLANTS – ONE REMOTE ASSISTANT

The Nucleus 5 Remote Assistant manages both the left and right sound processor at the same time. You can choose to manage or change both sound processors simultaneously or individually at the touch of one button.



Confidently manage your hearing.

The remote assistant enables you to control the functions and settings of your sound processors simply and interactively. Functions include easy access to key information on the status of your sound processors, such as current programme and battery levels. The remote assistant also helps troubleshoot and diagnose sound processor issues to keep you hearing without needing to go back to the clinic.

SIMPLE OR ADVANCED MODE

An intuitive user interface allows you to navigate your remote assistant. The user interface can be easily set in either Simple or Advanced Mode. Simple Mode gives you access to the most important “essential” functions, such as changing programmes. The Advanced Mode unleashes the full capabilities of the remote assistant including advanced sound processor and remote assistant settings and the built-in troubleshooting guide to help diagnose and solve issues.

FULL-COLOUR LCD SCREEN

Navigate the remote assistant controls via a colour LCD screen that confirms that the sound processors have made the change – without ever needing to touch the device behind your ear.

ONE-BUTTON CHECK

Simply press the “Cochlear” button and the remote assistant checks the status of the sound processors and coils.

ON-SCREEN ALERTS

Alerts warn you of potential issues – low battery, coil not connected, sound processors not working properly, etc.

RESET

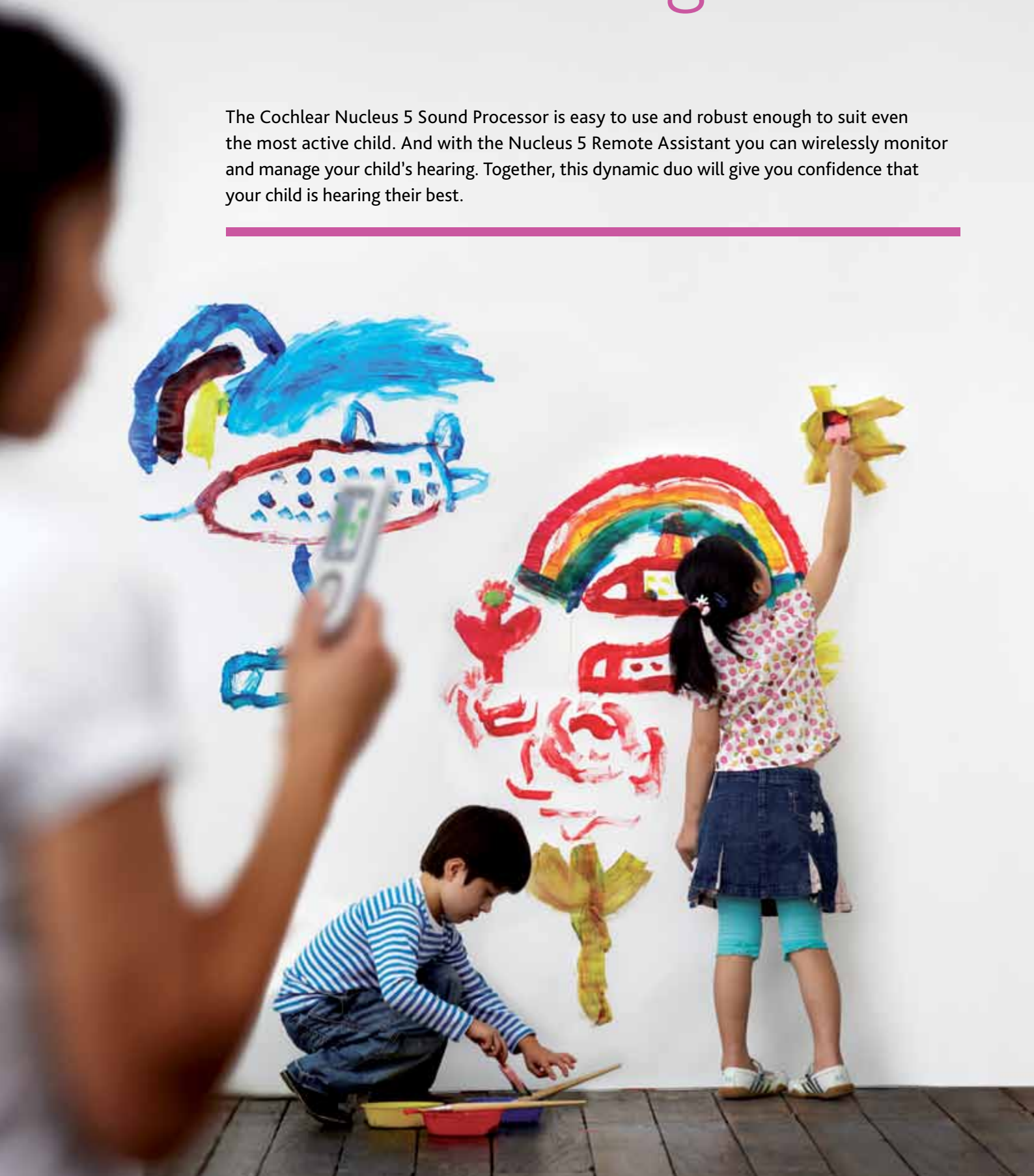
You can experiment with all the advanced features and functionalities of your remote assistant, confidently knowing you can always go back to your original settings at any time. Simply press “Reset” and revert to your clinician’s settings at any time.

BATTERY LIFE

You can expect about one week’s typical use from the rechargeable battery in the remote assistant – and it recharges quickly in two to four hours.

Be confident your child is hearing

The Cochlear Nucleus 5 Sound Processor is easy to use and robust enough to suit even the most active child. And with the Nucleus 5 Remote Assistant you can wirelessly monitor and manage your child's hearing. Together, this dynamic duo will give you confidence that your child is hearing their best.



The remote assistant makes it easy for you to know that your child's sound processors are working properly.



ONE-BUTTON CHECK

Just press the "Cochlear" button to check the status of the sound processors and coils.

ALERTS

Thanks to in-built diagnostics, the remote assistant notifies you of potential issues such as low battery, coil not connected or processor not working properly.

In addition, a two-colour LED indicator light on the sound processors will tell you at a glance if something is wrong.

SIMPLE OR ADVANCED MODE

The remote assistant can be easily set in either Simple or Advanced Mode. Simple Mode gives you access to the most important "essential" functions. The Advanced Mode unleashes the full capabilities of the remote assistant including advanced sound processor and remote assistant settings and the built-in troubleshooting guide to help diagnose and solve issues.

RESET

You can always revert to your clinician's settings without having to go back to the clinic.

BATTERY LIFE

The remote assistant clearly shows how much battery power is available on the sound processors and the remote assistant, so you will know before you need to change or recharge the batteries.

BILATERAL CONTROL

The left and right sound processor can both be controlled simultaneously via one remote assistant.

SIMPLE BUTTONS

If your child's remote assistant is out of reach, you can still easily manage the essential functions with the buttons of the sound processor.



Designed for an active life

The Nucleus 5 is our smallest ever sound processor, designed to fit your child's ear comfortably and is robust to fit in with their active life.

Now your child can sign up for the sports team while you relax in the knowledge that their processor can handle the rough and tumble.

Built to last.

Made from specialised, durable plastic and titanium, the Nucleus 5 Sound Processor is built to absorb the bumps and knocks that are an inevitable part of an active child's life. GORE® Protective Vents for the microphone protectors secure the sound processor's tiny microphones against sweat, dirt and grime, while not compromising on sound quality.

Water resistant.

Children love summer – and sooner or later they will be splashing around water. The highly water resistant Nucleus 5 Sound Processor gives your child the freedom to play and gives you peace of mind.⁷



WORN MORE WAYS

There are various ways to wear the battery modules and sound processor. This helps ensure your child is comfortable in a range of situations.

Snugfit™

This holds the sound processor to your child's ear, so it stays on comfortably and securely while they are enjoying sport and play.



LiteWear

You can take the battery module from behind your child's ear and attach it securely to their clothing, making the sound processor even lighter. This is particularly useful for very young children.



COVERS

Our exclusive covers provide a great variety of colours and patterns for your child's self-expression and are suitable for both compact and standard battery modules.



LEOPARD

ZEBRA

SWIRL

PRETTY

SPOTS

PINK
CAMOGREEN
CAMO

SOCCER



FLORAL

LED INDICATOR LIGHT

The two-colour LED will flash to notify you when your batteries need changing or another issue needs to be brought to your attention.



SAFETY

Battery modules can be locked onto the sound processor, keeping them safe from curious little hands, while still allowing you access and control. Tamper-resistant earhooks are also available for the sound processor.

Human engineering like no other

The human cochlea is a powerful yet incredibly delicate structure, as small as a pea and as fragile as a butterfly's wing. Nucleus CI24RE Series cochlear implants are designed to work in synergy with this marvel of biology. Cochlear's unique, pre-curved electrode gives you industry-leading hearing performance⁸ through focused stimulation.⁹ Cochlear's broad choice of electrodes enables your surgeon to select the one most suited to your individual cochlea.

Largest number of stimulation contacts.

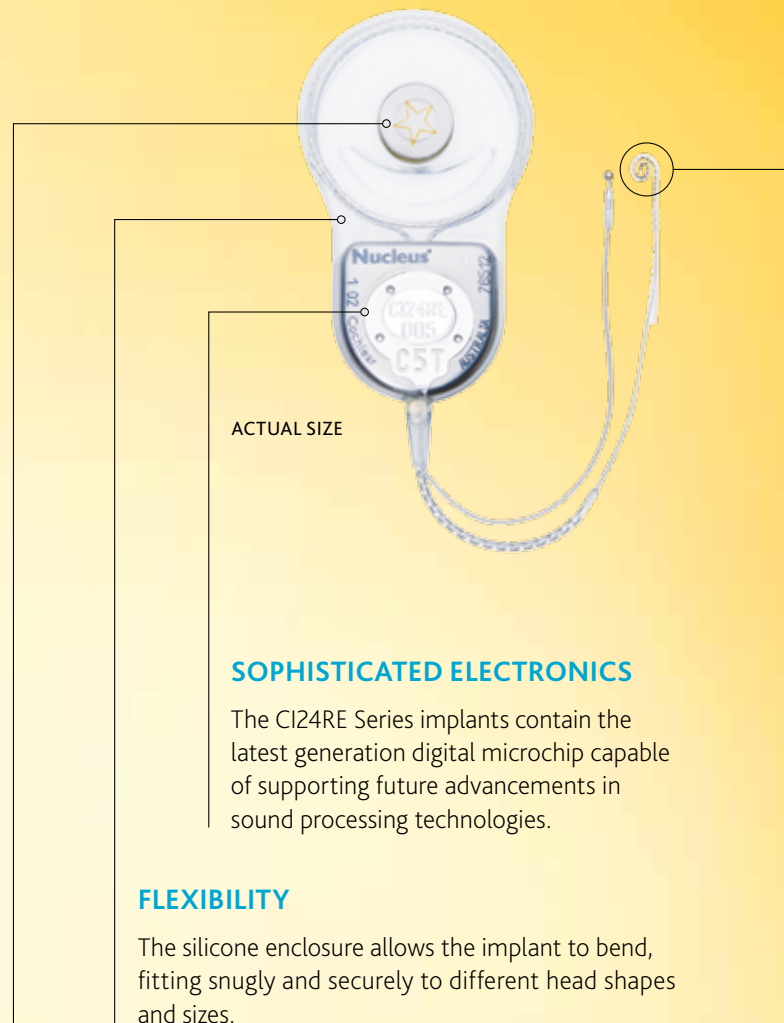
Only available from Cochlear, with 22 independent platinum stimulation contacts, Nucleus implants are designed for accurate delivery of sound to your hearing nerve.

CLOSE TO NATURAL SOUND

Research shows that with the 22 electrode array, listeners could distinguish an average of 161 intermediate pitches^{10,11}, and experience sound in a more natural way. This means audiologists have the flexibility to programme sound the way you like it best – advanced technology made easy!

THE POWER TO EXPAND

A unique feature of all of Cochlear's implants is the inbuilt intelligence that enables connection to future innovations in sound processing, without the need for additional surgery. Each new generation of sound processor has provided users with improvements in hearing performance.



SOPHISTICATED ELECTRONICS

The CI24RE Series implants contain the latest generation digital microchip capable of supporting future advancements in sound processing technologies.

FLEXIBILITY

The silicone enclosure allows the implant to bend, fitting snugly and securely to different head shapes and sizes.

MAGNETIC RESONANCE IMAGING (MRI) SAFE

MRI examination is increasingly used in medical diagnostics for children and the elderly alike and continues to evolve. A cochlear implant should not prevent or unduly restrict access to this potentially life-saving technology.

At Cochlear, we design our implants with the future in mind. That's why Nucleus Cochlear Implants are the only cochlear implants that are approved for MRI scans up to 1.5 Tesla without the need to remove the magnet and up to 3 Tesla with the magnet temporarily removed.¹²

Delivering choice.

The electrode is the part of the implant that is placed inside the human cochlea. Its design is crucial for successful hearing outcomes. Cochlear builds on more than 30 years experience in developing market leading electrodes. Our primary goal is to minimise insertion trauma for each electrode we develop, thus maximising the potential for hearing performance.

The CI24RE Series implant electrodes offer the following key features and benefits:

HIGH QUALITY SOUND – 22 ELECTRODES

The unique electrode array with 22 platinum contacts is designed to provide accurate stimulation of the hearing nerve, important for high quality sound.

GENTLE DESIGN – SOFTIP™

Cochlear's patented Softip™ electrodes allow for gentle insertion and are designed to minimise the risk of damage to the delicate cochlea structures.¹³

RIGHT LENGTH

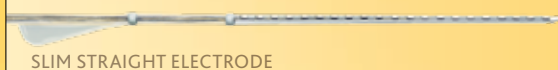
The length of the electrode array is crucial for positioning the electrodes in the best location in the cochlea and for protecting the delicate structures within the cochlea.¹⁴

With the CI24RE Series implants we offer a broad range of electrodes, allowing your surgeon to select the one that best meets your individual needs:



CURLED TO FIT NATURALLY

The precurved design allows the surgeon to better position the electrode array in very close proximity to your hearing nerve¹⁵ for more focused and accurate stimulation.⁹



MINIMAL INVASIVE

The world's thinnest full length electrode provides excellent electrical stimulation outcomes, with proven preservation of residual hearing.



MEETING SPECIFIC NEEDS

Over the years this straight electrode has found widespread use in patients with various types of special cochleae.

From the reliability leader.

When it comes to implant strength and reliability, we know second best will not do. For over 27 years, Cochlear has delivered the most reliable^{1,16-18} cochlear implants available – Nucleus. We developed the first titanium-based implant more than 27 years ago, built to withstand the most active lifestyle and with materials that work in harmony with your body.

The CI24RE Series implants are implanted in more than 62,000 people all over the world and have proven durability with the highest reliability record of any implanted hearing solution at seven years.¹⁻³

A lifelong solution – it's just the beginning

When new technologies come along, Cochlear Nucleus users have a distinct advantage. Whether you received one of our earliest implants 27 years ago, or the latest implants only last year, our committed teams continue to work passionately, developing new technologies that will give you the best possible hearing opportunities for the rest of your life.

Today, when choosing a cochlear implant, seven out of ten people choose Nucleus from Cochlear because of our leading technology, superior reliability and lifetime commitment to customers. Our dedication to backwards compatibility also ensures you or your child 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, the largest collaboration programme between leading specialists around the world, and access to the world's largest cochlear implant support organisation. Cochlear makes upgrades available, giving you every opportunity to improve your hearing without the need for further surgery. Our earliest Nucleus Cochlear Implant users have had access to five sound processor upgrades.

Hear now. And always

Milestones.

With a strong focus on product and service innovation, Cochlear is determined to maintain its leadership in providing the best possible hearing outcomes. Below are some of our most significant milestones, many of which were industry firsts:

1967

Professor Graeme Clark, University of Melbourne, begins research into implantable hearing solutions for people suffering from sensorineural hearing loss.

1977

First patient receives bone conduction hearing implant.

1978

Rod Saunders becomes first multi-channel cochlear implant user.

1982

The first titanium casing technology that other manufacturers are now embracing.

1997

The first MRI-safe implant.