

Cochlear™ Nucleus® Sound Processors

Compare our latest technology with previous generation devices



Key features	Nucleus 6 Sound Processor (Retired March 31, 2023)	Nucleus 7 Sound Processor	Nucleus Kanso® 2 Sound Processor
Processor type	Behind-the-ear (BTE)	Behind-the-ear (BTE)	Off-the-ear (OTE)
Size and weight comparison	Nucleus 8 is 32% smaller and 34% lighter than Nucleus 6 ^{1,^}	Nucleus 8 is 15% smaller and 13% lighter than Nucleus 7 ^{1,#}	Kanso 2 and Kanso 3 are 2.4% smaller than Kanso ¹
Automated sound processing technology	SmartSound iQ with SCAN ^{>,>>}	SmartSound iQ with SCAN ^{>,>>}	SmartSound iQ with SCAN ^{>,>>}
ForwardFocus			
Waterproofed [±] IP68-rated			•
Water-safe accessories	•	•	•
Dual microphone directionality	•	•	•
Battery type	Standard and compact rechargeable, or disposable	Standard and compact rechargeable, or disposable	Built-in rechargeable battery
Rechargeable battery charger	•	Y Charger for home and USB Portable Charger	All-in-one Home Charger and Portable Charger
Direct streaming capability	Via Cochlear Wireless Phone Clip	Compatible* Apple® or Android™ devices, or Cochlear Wireless Phone Clip*	Compatible* Apple or Android devicess, or Cochlear Wireless Phone Clip
Control	Remote Control (CR210) and Remote Assistant (CR230)	Nucleus Smart App* or Remote Control (CR310)	Nucleus Smart App* or Remote Control (CR310)
FM connectivity			
Bimodal streaming with compatible ReSound hearing aids*		•	•
Retention accessories	Snugfit, Mic Lock, LiteWear	Snugfit, Hugfit™, Koala Clip, Safety Cord/Line, Headband	Safety Cord/Line, Hair Clip, Headband, Halo
Compatible with monitor earphones	(CP910 only)	•	Sound Check in the Nucleus Smart App*
Nucleus implant compatibility			Except for Nucleus 22 Implants

Key features	Nucleus 8 Sound Processor	Nucleus Kanso 3 Sound Processor
Processor type	Behind-the-ear (BTE)	Off-the-ear (OTE)
Size and weight comparison	Smallest and lightest BTE sound processor ²	Smallest and lightest OTE sound processor ²
Automated sound processing technology	SmartSound iQ 2 with SCAN 2 ^{5,55}	SmartSound iQ 2 with SCAN 2 ^{>,>>}
ForwardFocus	Improved noise reduction (Option to automate)	Improved noise reduction (Option to automate)
Waterproofed [±] IP68-rated		
Water-safe accessories		
Dual microphone directionality		
Battery type	Power Extend, Power Compact and Compact rechargeable, or disposable	Built-in rechargeable battery
Rechargeable battery charger	Y Charger for home and USB Portable Charger	All-in-one Home Charger and Portable Charger
Direct streaming capability	Bluetooth® LE Audio** locations and devices, including compatible* Apple or Android devicess, or Cochlear Wireless Phone Clip	Bluetooth® LE Audio** locations and devices, including compatible* Apple or Android devicess, or Cochlear Wireless Phone Clip
Control	Nucleus Smart App* or Remote Control (CR310)	Nucleus Smart App* or Remote Control (CR310)
FM connectivity		
Bimodal streaming with compatible ReSound hearing aids		
Retention accessories	Snugfit, Hugfit, Koala Clip, Safety Cord/Line, Headband	Safety Cord/Line, Hair Clip, Headband, Halo
Compatible with monitor earphones		Sound Check in the Nucleus Smart App*
Nucleus implant compatibility	Except for Nucleus 22 Implants	Except for Nucleus 22 Implants

More details

A behind-the-ear sound processor is worn on the ear and a small coil is held in place against the head with a magnet. An off-the-ear sound processor provides a more discreet hearing solution while delivering an equivalent hearing experience as a behind-the ear sound processor.^{1–3}

At 15% smaller# than the Nucleus 7 Sound Processor and 32% smaller than Nucleus 6, the Nucleus 8 Sound Processor takes comfort to the next level.¹ The Kanso 3 Sound Processor is 21% smaller and 11% lighter than any other manufacturer's rechargeable off-the-ear sound processor.¹.o., \(\Delta \)

The Nucleus 8 and Kanso 3 Sound Processors feature smarter hearing technology[^] designed to make communicating with people, particularly in noise, easier. As you move through the day, your new sound processor senses changes in your listening environment and automatically adjusts using enhanced SmartSound[®] iQ 2 with SCAN 2 to deliver clearer sound.^{3-6,5,5} Compared to previous generation SCAN, SmartSound iQ 2 with SCAN 2 offers an 11% accuracy improvement in listening environment overall.⁷

The Nucleus 8 and Kanso 3 Sound Processors feature an improved ForwardFocus that more powerfully reduces background noise when you want to focus on face-to-face conversation.^{6,+} Now you can choose to operate ForwardFocus manually via the Nucleus Smart App or have it automated.^{1,+}

Swim in the pool, bathe, or get caught in the rain without the need for additional accessories. The waterproofed[±] IP68 rated Nucleus 8 and Kanso 3 Sound Processors are dust-tight and can be continuously submerged in freshwater for 60 minutes at a depth of three feet. IP68 is the highest available water-resistance rating in a sound processor.

For saltwater activities, rushing water environments, or extended use in freshwater, fit your Nucleus 8 or Kanso 3 Sound Processor with the Aqua+ kit for additional protection.*

The Nucleus 8 and Kanso 3 Sound Processors have dual-microphone technology with fixed and adaptive directionality which filters out background noise to enhance your understanding of speech, particularly in noise.¹⁰

With the choice of either disposable or three different rechargeable battery options, you can choose the best way to power your Nucleus 8 Sound Processor. The Kanso 3 Sound Processor features a powerful, built-in rechargeable battery that you can rely on for all-day hearing.^{11,4}

Whether you're at home, at work or away, your Nucleus 8 Sound Processor can be easily and conveniently recharged. The Y charger can recharge two batteries at the same time while the USB charger is an optional accessory for recharging one battery when you're on the go. With the Kanso 3 Sound Processor Home Charger, you can conveniently charge and dry your sound processor at the same time.

Ready for next-generation Bluetooth® LE Audio technology,** the Nucleus 8 and Kanso 3 Sound Processors will make it easier to bring sound to you—in more places and from more devices than ever before.¹²-¹⁵ In the future, once the Auracast™ protocol has been adopted by public venues, you'll be able to connect directly to audio being broadcast at places like airports, conference centers and theaters.** And whether you're listening to music, taking a phone call, or watching your favorite movie, Bluetooth® LE Audio delivers better sound quality than its previous generation Bluetooth Classic® to help you get the best possible audio experience.¹²-¹³,**

With the Nucleus Smart App,* you can adjust your hearing settings, track hearing information and set daily goals for listening to speech. Where available, you may even save yourself a trip to the clinic by using our Remote Care¶ solutions to do a hearing check or video appointment with your clinician from home.¹6 For added peace of mind, the Find My Processor feature can help locate a misplaced processor. If you don't have a compatible smartphone, you can change simple settings with the remote control.

Nucleus sound processors offer FM connectivity via a Mini Microphone 2+ with a three-pin receiver. FM systems are among the most common hearing assistive technologies used with children, especially in schools. They are designed to provide improved hearing in noisy situations or over a distance. The Phonak Roger 20 Receiver is designed for use with Nucleus 8 and 7 Sound Processors.

Designed to deliver a rich hearing experience, a bimodal solution can help you better locate where sound is coming from, enhance your music appreciation, and enjoy an improved quality of life than with hearing aids alone.^{17–20} Stream sound simultaneously to both your Nucleus 8 or Kanso 3 Sound Processor and compatible ReSound hearing aid with a smart bimodal hearing solution that's ready for next-generation Bluetooth® LE Audio technology.^{12–13,*,**}

Cochlear Nucleus sound processors offer a wide range of retention options to suit your individual needs and lifestyle.

Check the sound quality of the microphone or accessory input to your child's or another's sound processor.

Our research and development is focused on offering the best hearing possible today, while also anticipating how technology and recipient needs will change over time. Cochlear is committed to ongoing innovation and developing new ranges of exciting products to help you achieve your best possible hearing outcomes at every stage of life.



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Hear now. And always

Cochlear is dedicated to helping people with moderate to profound hearing loss experience a world full of hearing. As the global leader in implantable hearing solutions, we have provided more than 750,000 devices and helped people of all ages to hear and connect with life's opportunities.

We aim to give people the best lifelong hearing experience and access to next generation technologies. We collaborate with leading clinical, research and support networks to advance hearing science and improve care.

That's why more people choose Cochlear than any other hearing implant company.

- # Comparison made using the Compact Battery Module for Nucleus 8 Sound Processor and the Compact Rechargeable Battery for Nucleus 7 Sound Processor
- ^ Comparison made using a Compact Battery Module with Nucleus 8 Sound Processor and an equivalent Compact Rechargeable Battery with Nucleus 6 Sound Processor.
- ^^ Compared to previous generation Nucleus 7 and Nucleus 6 Sound Processors.
- > It is recommended that SNR-NR, WNR and SCAN be made available to any recipient, ages 6 and older, who is able to 1) complete objective speech perception testing in quiet and noise in order to demonstrate and document performance and 2) report a preference for different program settings.
- >> SNR-NR, WNR and SCAN are FDA approved for use with any recipient ages 6 years and older, who is able to: 1) complete objective speech perception testing in quiet and in noise in order to determine and document performance; and 2) report a preference for different program settings.
- + Compared to Nucleus 7 Sound Processor with ForwardFocus on
- † ForwardFocus is a clinician-enabled feature that can be user-controlled or automated. ForwardFocus can only be enabled by a hearing implant specialist. It should only be activated for users 12 years and older who are able to reliably provide feedback on sound quality and understand how to use the feature when moving to different or changing environments.
- ± The Cochlear Nucleus 8 Nexa and Nucleus 8 Sound Processors with the rechargeable battery module and Kanso 3 Nexa and Kanso 3 Sound Processors meet the IP68 rating of the International Standard IEC60529 of freshwater waterproof. These processor configurations were tested by continuous submersion in freshwater for 60 minutes at a depth of 1 meter and functioned as intended. Cochlear offers the Aqua+ accessory for additional protection during extended water use, in salty or rushing water environments. For additional information, please refer to the appropriate user guide.^{8,9}
- ** Battery life varies for every user, according to the age of the battery, programs used each day, your implant type, the thickness of skin covering your implant, and the size and type of battery. Typical expected battery life is calculated using default map settings used with a Cl1000 series implant. All day hearing is defined as 16 hours.
- * For compatibility information and devices visit: cochlear.com/compatibility and resound.com/compatibility. The Cochlear Nucleus Smart App is available on App Store and Google Play
- ** As Bluetooth LE Audio compatible devices become available, a sound processor firmware update will be required to use certain features. Auracast™ broadcast audio capability is subject to third party adoption of the Auracast protocol. The Bluetooth® and Auracast™ word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cochlear is under license.
- ¶ Remote Check for Nucleus sound processors is approved for all ages, however certain tests are not suitable for ages below 6. Remote Check does not replace clinical care and does not involve remote programming of the sound processor. Remote Assist for Nucleus sound processors is approved for ages 6 and older. Remote Check and Remote Assist features are only visible and accessible if they are enabled by a clinician. Clinicians should consider the suitability of the feature before enabling Remote Check and Remote Assist. Only available at clinics that have enrolled in Remote Care.

Please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always read the instructions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information. Android is a trademark of Google LLC.

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