

Cochlear[™]Nucleus[®] 8 Sound Processor

Smaller. Smarter. Better connected.

A comparison with previous generation devices



How does the Cochlear[®] Nucleus[®] 8 Sound Processor compare?

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Key features	Nucleus [®] Freedom [®] Sound Processor	Nucleus 5 Sound Processor	Nucleus 6 Sound Processor	Nucleus Kanso® Sound Processor	Nucleus 7 Sound Processor	Nucleus Kanso 2 Sound Processor	Nucleus 8 Sound Processor	Why it matters
Processor type	Behind-the-ear (BTE)	Behind-the-ear (BTE)	Behind-the-ear (BTE)	Off-the-ear (OTE)	Behind-the-ear (BTE)	Off-the-ear (OTE)	Behind-the-ear (BTE)	A behind-the-ear sound processor is worn on the ear and a small coil is p Cochlear's most advanced and the world's smallest and lightest behind- discreet hearing solution whilst delivering an equivalent hearing experien
Size and weight comparison	Nucleus 8 is 45% smaller and 36% lighter than Freedom with standard rechargeable battery ¹	Nucleus 8 is 29% smaller and 37% lighter than Nucleus 5 with compact rechargeable battery ¹	Nucleus 8 is 32% smaller and 34% lighter than Nucleus 6 with compact rechargeable battery ¹	Lightest OTE option ¹	Nucleus 8 is 15% smaller and 13% lighter than Nucleus 7 with a compact rechargeable battery ¹	Smallest and lightest rechargeable OTE sound processor. Kanso 2 is 2.4% smaller than Kanso'	Smallest and lightest BTE sound processor ¹	The world's smallest behind-the-ear sound processor just got even smal Sound Processor^, the Nucleus 8 Sound Processor is designed to take co
Sound processing technology		● SmartSound®	• SmartSound iQ with SCAN	• SmartSound iQ with SCAN	• SmartSound iQ with SCAN	• SmartSound iQ with SCAN	SmartSound iQ 2 with SCAN 2	The Nucleus 8 Sound Processor features smarter hearing technology'd move through the day, your new sound processor senses changes in you iQ 2 with SCAN 2 to deliver clearer sound. ²⁻⁵
ForwardFocus					• User controlled via Nucleus Smart App	• User controlled via Nucleus Smart App	• Improved noise reduction User controlled via Nucleus Smart App or option to automate	The Nucleus 8 Sound Processor features an improved ForwardFocus that focus on the face-to-face conversation. ^{6,+} Now with the choice to operation focus on what's important. [†]
Dual microphone directionality		•	•	٠	•	•	•	Dual microphones matter when you want to experience clearer sound. T adaptive directionality which filters out background noise to enhance yo
Control functionality	Two buttons	Two buttons	Two buttons	One button	One button	Button-free with Auto-On feature	One button	Single button control is designed for easier use and to reduce inadverter design you can change programs or control streaming from your True W
Battery type	Body worn, disposable or rechargeable	Standard rechargeable or disposable	Standard or compact rechargeable, or disposable	Disposable	Standard or compact rechargeable, or disposable	Built-in rechargeable battery	Power Extend or Compact rechargeable, or disposable	With the choice of either disposable or one of two rechargeable battery Processor.
Rechargeable battery charger	•	•	•	N/A	• Y charger for home, USB portable charger	• All-in-one Home Charger, optional Portable Charger	• Y charger for home, USB portable charger	Whether you're at home, at work or away, your Nucleus 8 Sound Process batteries at the same time while the USB charger is an optional accessor
Direct streaming capability			• Via Cochlear™ Wireless Phone Clip	• Via Cochlear Wireless Phone Clip	Compatible* Apple and Android™ devices, Cochlear Wireless Phone Clip (Optional)	Compatible [*] Apple and Android devices, Cochlear Wireless Phone Clip (Optional)	Ready for Bluetooth® LE Audio locations and devices", compatible' Apple and Android devices, Cochlear Wireless Phone Clip (Optional)	Experience the proven benefits of streaming audio directly to your soum. Nucleus 8 Sound Processor will make it easier to bring sound to you – in connect directly to what's being broadcast at public venues such as airp whether you're listening to music, taking a phone call, or watching your f generation [§] to help you get the best possible audio experience. ^{12,13}
Nucleus Smart App					• Including Remote Check	• Including Remote Check	• Including Remote Check	With the Nucleus Smart App, you can adjust your hearing settings, track you can even save yourself a trip to the clinic by using our Remote Care® home. For added peace of mind, the Find My Processor feature can help
Remote Control		Remote Assistant (CR110)	Remote Control (CR210), Remote Assistant (CR230)	Remote Control (CR210), Remote Assistant (CR230)	Nucleus Smart App, Remote Control (CR310)	Nucleus Smart App, Remote Control (CR310)	Nucleus Smart App, Remote Control (CR310)	If you don't have a compatible smartphone, the remote control has a har manage your hearing.
FM connectivity	Via FM cable	Via FM cable and Roger FM receiver	Via Euro Accessory Adapter and Roger X FM receiver or Cochlear Wireless Mini Microphone 2+ and Roger X FM receiver	Via the Cochlear Wireless Mini Microphone 2+ and Roger X FM receiver	Via the Cochlear Wireless Mini Microphone 2+ and Roger X FM receiver	Via the Cochlear Wireless Mini Microphone 2+ and Roger X FM receiver	Via the Cochlear Wireless Mini Microphone 2+ and Roger X FM receiver or Roger 20 FM receiver	FM systems are common hearing assistive technologies used with childr hearing in noisy situations or over a distance.
Compatible with True Wireless Devices				•	Via the Cochlear Wireless Mini Microphone 2+ and Roger 20 FM receiver	•		The Nucleus 8 Sound Processor's compatibility with the latest range of T Enjoy convenient and independent volume control when watching TV w conversations. ⁹
Bimodal streaming			True Wireless Devices	True Wireless Devices	Compatible* Apple and Android devices, True Wireless Devices	Compatible [*] Apple and Android devices, True Wireless Devices	Compatible [*] Apple and Android devices, True Wireless Devices	Designed to deliver a rich hearing experience, a bimodal solution can he appreciation, and enjoy an improved quality of life than with hearing aids and entertainment from your compatible* Apple or Android device direct
Water-safe accessories		•	•	٠	•	•	•	With a Nucleus 8 Sound Processor that has the highest available water-r getting caught in the rain. Add Aqua+ for extra protection, so you can im
Retention accessories	Snugfit and Mic Lock	Snugfit and Mic Lock	Snugfit and Mic Lock	Safety Line, Hair clip, Headband	Snugfit, Hugfit [™] , Koala Clip, Safety Line, Headband	Safety Line, Hair clip, Headband, Kanso Halo	Snugfit, Hugfit, Koala Clip, Safety Cord/Line, Headband	Cochlear Nucleus sound processors offer a wide range of retention optic
Compatible with monitor earphones	•	•	(CP910 only)		•	Sound Check in the Nucleus Smart App	•	Check the sound quality of the microphone or accessory input to your c
Colour range	Black, Grey, Brown, Beige	Black, Grey, Brown, Beige	Black, Grey, Brown, Beige	Black, Slate Grey, Chocolate Brown, Copper Brown, Golden Blonde, Sandy Blonde, White, Silver	Black, Grey, Brown, Sand, White	Black, Slate Grey, Chocolate Brown, Sandy Blonde, Silver	Black, Grey, Brown, Sand, White, Silver	The Nucleus 8 Sound Processor comes with an expanded colour selection aid with your new sound processor for a smarter pair.
Nucleus Implant compatibility	All Nucleus Implants	All Nucleus Implants except for Nucleus 22	All Nucleus Implants	All Nucleus Implants except for Nucleus 22	All Nucleus Implants	All Nucleus Implants except for Nucleus 22	All Nucleus Implants except for Nucleus 22	Our research and development is focused on offering the best hearing p change over time. Cochlear is committed to ongoing innovation and dev hearing outcomes at every stage of life.

is positioned over the implant with a magnet. The Nucleus 8 Sound Processor is ad-the-ear sound processor.^{1,2-5} An off-the-ear sound processor provides a more rience as a behind-the-ear sound processor.^{1,2}

naller. At 15% smaller[#] than its predecessor and 32% smaller than the Nucleus 6 e comfort to the next level.¹

[∞] designed to make communicating with people, particularly in noise, easier. As you your listening environment and automatically adjusts using enhanced SmartSound

that more powerfully reduces distracting background noise when you want to erate ForwardFocus manually via the Nucleus Smart App or have it automated, you

d. The Nucleus 8 Sound Processor has dual-microphone technology with fixed and your understanding of speech, particularly in noise.⁷

tent program changes. With the Nucleus 8 Sound Processor's simple one-button • Wireless™ Devices with ease.

ery options, you can choose the best way to power your Nucleus 8 Sound

cessor can be easily and conveniently recharged. The Y charger can recharge two sory for recharging one battery when you're on the go.

und processor.⁸⁻¹¹Ready for next-generation Bluetooth LE Audio technology, the - in more places and from more devices than ever before.^{8,12,13,**} You'll be able to irports, conference centres and theatres supporting Bluetooth Auracast^{**}. And ur favourite film, Bluetooth LE Audio delivers better sound quality than its previous

ack hearing information and set daily goals for listening to speech. Where available, re[®] solutions to do a hearing check or video appointment with your clinician from the lp locate a misplaced processor.

nandy display screen for changing simple settings, allowing you to discreetly

ildren, especially in school environments. They are designed to provide improved

of True Wireless Devices offers you more control over your hearing experience. / with friends or family, clearly hear presentations or actively engage in group

help you better locate where sound is coming from, enhance your music aids alone.¹⁴⁻¹⁶ Our smart bimodal hearing solution allows you to stream music, calls irectly to your sound processor and hearing aid, without the need for an accessory.

er-resistance rating for sound processors, you no longer need to worry about immerse yourself in your favourite water activities.[~]

ptions to suit your individual needs and lifestyle.

r child's or another's sound processor.

ction and, for bimodal recipients, the option to coordinate your ReSound hearing

g possible today, while also anticipating how technology and recipient needs will developing new ranges of exciting products to help you achieve your best possible

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 650,000 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.

References

- 1. Cochlear Limited. D1190805 Processor Size Comparison (2022 May).
- Mauger SJ, Warren C, Knight M, Goorevich M, Nel E. Clinical evaluation of the Nucleus 6 cochlear implant system: performance improvements with SmartSound iQ. International Journey Of Audiology (2014 Aug); 53(8): 564-576. [Sponsored by Cochlear]
- Mauger S, Jones M, Nel E, Del Dot J. Clinical outcomes with the Kanso" off- the-ear cochlear implant sound processor. International Journal Of Audiology (2017 Jan 9); 1-10. [Sponsored by Cochlear]
- 4. Wolfe J, Neumann S, Marsh M, Schafer E, Lianos L, Gilden J, O'Neill L, Arkis P, Menapace C, Nel E, Jones M. Benefits of Adaptive Signal Processing in a Commercially Available Cochlear Implant Sound Processor. Otol Neurotol (2015 Aug): 36(7):1181-90. [Sponsored by Cochlear]
- 5. Cochlear Limited. D1864200 SCAN-X Design Description (2022 Apr).
- 6. Cochlear Limited. D1964109 Clinical Investigation Report CLTD5804 (2022 Feb).
- 7. Sivonen V, Willberg T, Aarnisalo A, Dietz A. The efficacy of microphone directionality in improving speech recognition in noise for three commercial cochlearimplant systems, Cochlear Implants International (2020); 21:3, 153-159.
- 8. Cochlear Limited. D1631375 Nucleus 8 Sound Processor Product Definition.
- 9. Wolfe J, et al. Evaluation of a wireless audio streaming accessory to improve mobile telephone performance of cochlear implant users. International Journal of Audiology (2016); 55(2):75-82.
- 10. Wolfe J, et al. Improving hearing performance for cochlear implant recipients with use of a digital, wireless, remote-microphone, audio-streaming accessory. J Am Acad Audiol (2015 Jun); 26(6):532-9.
- 11. Warren C, Nel E, and Boyd P. Controlled comparative clinical trial of hearing benefit outcomes for users of the Cochlear[™] Nucleus[®] 7 Sound Processor with mobile connectivity. Cochlear Implants International (2019 Feb); 20(3).
- 12. Hunn N. Introducing Bluetooth[®] LE Audio [Internet]. [Cited 2022 Jan]. Available from: https://www.bluetooth.com/learn-about-bluetooth/recentenhancements/le-audio/
- 13. A Technical Overview of LC3 [Internet]. Bluetooth® Technology Website. [Cited 2022 Feb 28]. Available from: https://www.bluetooth.com/blog/a-technicaloverview-of-lc3
- 14. Gifford RH, Dorman MF, McKarns SA, Spahr AJ. Combined electric and contralateral acoustic hearing: Word and sentence recognition with bimodal hearing. Journal of Speech, Language, and Hearing Research (2007 Aug 1); 50(4):835-43.
- Firszt JB, Reeder RM, Holden LK, Dwyer NY; Asymmetric Hearing Study Team. Results in Adult Cochlear Implant Recipients With Varied Asymmetric Hearing: A Prospective Longitudinal Study of Speech Recognition, Localization, and Participant Report. Ear Hear (2018 Sep/Oct); 39(5):845-862.
- 16. Potts LG, Skinner MW, Litovsky RA, Strube MJ, Kuk F. Recognition and localization of speech by adult cochlear implant recipients wearing a digital hearing aid in the nonimplanted ear (bimodal hearing). Journal of the American Academy of Audiology (2009 Jun 1); 20(6):353-73.

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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 follow the directions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.

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 the Nucleus 8 Sound Processor and the Nucleus 6 (CP910) Sound Processor

> Compared to previous generation Nucleus 7 and Nucleus 6 Sound Processors

+ Compared to Nucleus 7 Sound Processor with ForwardFocus on

⁺ ForwardFocus is clinician-enabled within the Custom Sound Pro fitting software and can be user-controlled with the Cochlear Nucleus Smart App or as an automated program.

§ The previous generation was Bluetooth® Classic.

~ The Cochlear Nucleus 8 Sound Processor is dust and water resistant to level IP68 of the International Standard IEC60529. The Nucleus 8 Sound Processor was tested to a depth of up to 1 metre for up to 1 hour. The Nucleus 8 Sound Processor with Aqua+ is dust and water resistant to level of IP68 of the International Standard IEC60529. The Nucleus 8 Sound Processor with Aqua+ is dust and water resistant to level of IP68 of the International Standard IEC60529. The Nucleus 8 Sound Processor with Aqua+ can be continuously submerged under water to a depth of up to 3 metres for up to 2 hours. Refer to the relevant user guide for more information.

* The Cochlear Nucleus 8 Sound Processor is compatible with Apple and Android devices. The Cochlear Nucleus Smart App is available on App Store and Google Play. For compatibility information visit www.cochlear.com/compatibility and www.resound.com/compatibility

≈ Not available in all markets

** When this technology becomes available for the Cochlear Nucleus 8 Sound Processor, a firmware update to your sound processor will allow you to connect to Bluetooth LE Audio compatible devices.

ACE, Advance Off-Stylet, AOS, Ardium, AutoNRT, Autosensitivity, Baha, Baha SoftWear, BCDrive, Beam, Bring Back the Beat, Button, Carina, Cochlear, 科利耳, コクレア, 코클리어, Cochlear SoftWear, Contour, コントゥア, Contour Advance, Custom Sound, DermaLock, Freedom, Hear now. And always, Hugfit, Human Design, Hybrid, Invisible Hearing, Kanso, LowPro, MET, MP3000, myCochlear, mySmartSound, NRT, Nucleus, Osia, Outcome Focused Fitting, Off-Stylet, Piezo Power, Profile, Slimline, SmartSound, Softip, SoundArc, True Wireless, the elliptical logo, Vistafix, Whisper, WindShield and Xidium are either trademarks or registered trademarks of the Cochlear group of companies.

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