

**SOUND PROCESSOR
COMPARISON CHART**



	Kanso® 2 Sound Processor	Nucleus® 7 Sound Processor	Kanso® Sound Processor	Nucleus® 6 Sound Processor	Nucleus® 5 Sound Processor	Freedom® Sound Processor	Why it matters
Sound Processor Type							
Behind-the-ear (BTE)		●		●	●	●	A BTE sound processor is worn on the ear and a small coil is held in place against the head with a magnet. The Cochlear™ Nucleus 7 Sound Processor is our most advanced BTE sound processor. It is available with rechargeable batteries and a range of retention options to best suit you or your child.
Off-the-ear (OTE)	●		●				An OTE sound processor provides a more discreet hearing solution while delivering a similar hearing experience as a behind-the-ear sound processor. The Kanso 2 Sound Processor is worn off the ear and combines the processor, battery pack and coil into a single, compact and convenient unit.
Technology							
Hybrid™ Hearing		●		●		●	Hybrid Hearing uses acoustic amplification which may allow you to utilize your natural low frequency hearing, while taking advantage of cochlear implant technology to restore access to the hearing you're missing. The result can be improved sound quality and speech recognition.
SmartSound® iQ with SCAN	●	●	●	●			SmartSound iQ is Cochlear's most advanced sound processing system. It works by filtering out background noise and automatically adapting to optimize your hearing experience, focusing on sounds that are most important to you. SCAN™ is the industry's first automatic scene classifier—designed to detect the unique features of sound and use them to determine the listening environment. ^{1,3}
ForwardFocus*	●	●					ForwardFocus* is a control feature which allows you to hear better in challenging listening environments. It works by reducing any noise coming from behind you, so you can more easily enjoy face-to-face conversation. ⁴
Nucleus® Smart App	●	●					The Nucleus Smart App has been developed for the Nucleus 7 and Kanso 2 Sound Processors. Available for Apple and Android devices, it is easy to use and offers the convenience of not having to carry a remote. [†]
Direct streaming with Apple® or Android™ device [‡]	●	●	With Cochlear Wireless Phone Clip	With Cochlear Wireless Phone Clip			With the Kanso 2 and Nucleus 7 Sound Processors you can enjoy your favorite music, videos and entertainment - streaming directly from your compatible** Apple or Android device.
Telephone use - standard headset	Microphone	Microphone	Microphone or telecoil	Microphone, telecoil or cable	Microphone, telecoil or cable	Microphone, telecoil or cable	Use the telephone to easily connect with family and friends. Third party accessories may also be available to use with standard telephone headsets.
Telephone use - smartphone streaming	Direct streaming through compatible [†] Apple or Android devices With Cochlear Wireless Phone Clip	Direct streaming through compatible [†] Apple or Android devices With Cochlear Wireless Phone Clip	With Cochlear Wireless Phone Clip	With Cochlear Wireless Phone Clip			Audio streaming gives you better sound quality and convenience. ⁵ With audio streaming you can control the amount of background noise you hear through your processor microphones with a simple adjustment of your mixing ratio. The Nucleus 7 and Kanso 2 Sound Processors have a direct streaming feature for compatible [†] devices.
Compatible with Cochlear True Wireless™ devices	●	●	●	●			True Wireless devices take your hearing to the next level and letting you live life to the fullest, with options to connect directly to a Mini Microphone, Phone Clip or TV Streamer.
Wireless Phone Clip	●	●	●	●			Bluetooth®-enabled wireless allows you to connect to your smartphone to stream calls or music.
Wireless TV Streamer	●	●	●	●			With the Wireless TV Streamer, you get crisp, clear stereo sound directly from your television, meanwhile not missing what's going on around you.
Mini Microphone 2+	●	●	●	●			By streaming speech to your sound processor, the Mini Microphone helps you hold conversations in noisy places and hear clearly over distances.
Remote Control	CR310	CR310	CR210	CR210			The remote control has a handy display screen for changing simple settings, allowing you to manage your hearing in a discreet way.
Remote Assistant	Nucleus Smart App [†]	Nucleus Smart App [†]	CR230	CR230	CR110		The remote assistant is a full-featured device which allows you to control and monitor your sound processor settings, and puts troubleshooting at your fingertips.
Bimodal™/Bilateral streaming	Via compatible™† Apple or Android devices and True Wireless devices	Via compatible™† Apple or Android devices and True Wireless devices	True Wireless devices	True Wireless devices			Having sound streamed to both ears allows for greater clarity and a richer hearing experience.
FM connectivity	Via the Cochlear Wireless Mini Microphone 2+	●	Via the Cochlear Wireless Mini Microphone 2+	●	●	●	FM systems are among the most common hearing assistive technologies used with children, especially in school environments. The Mini Microphone 2+ is an effective and cost efficient alternative to an FM system, providing improved hearing in noisy situations or over a distance.
Auto-On	●	●	●	●			The Nucleus 7 Sound Processor turns on automatically when you connect a battery. The Kanso 2 Sound Processor turns on automatically when you pick it up.
Compatibility							
Implant compatibility	Not compatible with Nucleus 22 implants	Compatible with all Nucleus implants	Not compatible with Nucleus 22 implants	Compatible with all Nucleus implants	Not compatible with Nucleus 22 implants	Compatible with all Nucleus implants	Cochlear is committed to ongoing innovation and developing new ranges of exciting products to help our recipients achieve their best possible hearing outcomes.

1. 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].
 2. 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].
 3. Wolfe J, Parkinson A, Schafer E, Gilden J, Rehwinkel K, Gannaway S, et al. Benefit of a Commercially Available Cochlear Implant Processor With Dual- Microphone Beamforming: A Multi-Center Study. Otology And Neurology. 2012; 33(4): 553-560. [Sponsored by Cochlear].
 4. Cochlear Limited D1376556 Acceptance and Performance with the Nucleus 7 Cochlear Implant System with Adult Recipients. June 2018, Data on file.
 5. Cochlear Limited. D1296247. CLTD 5620 Clinical Evaluation of Nucleus 7 Cochlear Implant System. 2017, Sept; Data on file.
 * 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. It may be possible to have decreased speech understanding when using ForwardFocus in a quiet environment.
 ** The Cochlear Kanso 2 Sound Processor is compatible with Apple and Android devices, for compatibility information visit www.cochlear.com/compatibility. For hearing aids compatible with linking to Cochlear sound processors please visit www.cochlear.com/nucleus/compatibility or visit the Smart Hearing Alliance section of www.cochlear.com/compatibility

† The Cochlear Nucleus Smart App is available on App Store and Google Play. For compatibility information visit www.cochlear.com/compatibility.
 ‡ The Cochlear Nucleus 7 Sound Processor and the Cochlear Kanso 2 Sound Processor are compatible with iPhone®, iPad® and iPod touch®. For compatibility information visit www.cochlear.com/compatibility.
 †† SNR-NR, WNR and SCAN are 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 2) report a preference for different program settings.
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Features							
Size	Smallest OTE sound processor to date	Smallest BTE sound processor to date	Kanso 2 is 4% smaller than Kanso	Nucleus 7 is 25% smaller than Nucleus 6	Nucleus 7 is 41% smaller than Nucleus 5	Nucleus 7 is 55% smaller than Freedom	The Nucleus 7 Sound Processor is Cochlear's smallest behind-the-ear sound processor to date, 25% smaller than its predecessor, the Nucleus 6 Sound Processor. The Kanso 2 Sound Processor is Cochlear's smallest off-the-ear sound processor.
Weight	Lightest OTE sound processor to date	Lightest BTE sound processor to date	Lightest OTE option available	Nucleus 7 is 24% lighter than Nucleus 6	Nucleus 7 is 27% lighter than Nucleus 5	Nucleus 7 is 43% lighter than Freedom	Designed for comfort, the Nucleus 7 Sound Processor is Cochlear's lightest BTE processor, 24% lighter than its predecessor, the Nucleus 6 Sound Processor. The Kanso 2 Sound Processor is the lightest rechargeable off-the-ear cochlear implant sound processor available.
Color range	5 color options	5 color options	8 color options	5 color options	5 color options	6 color options	Personalized color options available, based on preference and lifestyle.
Water and dust resistance ratings	Water and dust resistant (IP68)**	Water resistant (IP57) with rechargeable batteries*** Waterproof (IP68) when worn with Aqua+†	Water resistant (IP54)**** Waterproof (IP68) when worn with Aqua+†	Water resistant (IP57) with rechargeable batteries*** Waterproof (IP68) when worn with Aqua+†	Water resistant (IP57) with rechargeable batteries*** Waterproof (IP68) when worn with Aqua+†	Water resistant only (IP44)	Both the Kanso 2 Sound Processor and the Nucleus 7 Sound Processor give you full confidence when caught in the rain, being splashed with water or sweating it out in the gym. For added peace of mind, add the security of Aqua+ and your Nucleus 7 or Kanso 2 Sound Processor becomes waterproof, so you can surf, snorkel or swim with confidence in salt, fresh and chlorinated water.
Aqua+‡	●	●	●	●	●		Aqua+ is a soft, flexible silicone sleeve that fits over the sound processor, making it waterproof where additional protection is needed.
One button interface	Button-free	●	●	Two buttons	Two buttons	Two buttons	The Kanso 2 Sound Processor has a unique button-free design. The Nucleus 7 Sound Processor has a one button interface for basic control functionality.
Batteries							
Disposable batteries (high power 675 zinc air)		●	●	●	●	●	Disposable batteries typically last several days, depending on the power needs of each recipient's equipment.
Rechargeable batteries	Built-in rechargeable battery	●		●	●	●	Both standard and compact rechargeable battery modules are available for the Nucleus 7 Sound Processor. The Kanso 2 Sound Processor has an in-built rechargeable battery.
Battery Life*	Up to 18 hours	Up to 80 hours	Up to 60 hours	Up to 60 hours	Up to 60 hours	Up to 60 hours	The Kanso 2 and Nucleus 7 Sound Processors have been designed with efficiency in mind to deliver long-lasting battery performance.
Rechargeable battery charger	All-in-one Home Charger and optional Portable Charger	USB Charger and Y Charger		●	●	●	The Nucleus 7 Sound Processor features an additional USB charging option, allowing you to charge from a PC, or on-the-go in your car. The Kanso 2 Sound Processor uses a new all-in-one Home Charger that charges, stores and dries your device at the same time. A Portable Charger is also available.
For parents							
Tamper-resistant battery modules		●	●	●	●	●	Helps prevent children from opening the battery cover.
LED status monitoring	●	●	●	●	●	●	An easy way to quickly and easily assess the status of your child's sound processor.
Compatible with monitor earphones	Sound Check in the Nucleus Smart App	●		●	●	●	Enables a parent to check the sound quality of the input from their child's sound processor, microphone or accessories. Carers can use the Sound Check feature in the Nucleus Smart App to check the sound quality of their loved one's Kanso 2 Sound Processor.
Wearing & Retention Options							
Earhooks		●		●	●	●	Comfortably secures the sound processor to your ear.
Tamper-resistant earhook		●		●	●		Earhooks with additional tamper resistance.
Snugfit		●		●	●	●	Helps keep the sound processor securely in place, especially for active adults and children.
Hugfit™		●					Helps keep the sound processor securely in place, especially designed for smaller ears.
Mic Lock		●		●	●	●	Helps keep the sound processor securely on the ear when used with an ear mold. For the Nucleus 7 Sound Processor, the Mic Lock or an ear mold can be used in conjunction with the ear mold adaptor.
Koala Clip		●					Clip-on retention device for babies and younger children.
Safety cord	●	●	●				Provides additional security when taking part in activities where you risk losing your sound processor.
Hair clip	●		●				Clips onto the hair, reducing the risk of losing your sound processor.
Ear mold adaptor		●					Attaches to an ear mold to help keep the sound processor securely in place.
Headworn adaptor		●					For temporary use only. Holds the sound processor and coil together in place on the side of the head.
Headband	●	●	●				Compatible with the Kanso 2 and Nucleus 7 Sound Processors. Useful for children or during physical activity.

* Individual results may vary depending on type of implant, programming parameters and battery choice.

** The Kanso 2 Sound Processor is dust and water resistant to level of IP68 of the International Standard IEC60529.

*** The Nucleus 7 Sound Processor is protected against water to level IP57 of the International Standard IEC60529. This protection only applies when you use a Cochlear Standard Rechargeable Battery Module or Cochlear Compact Rechargeable Battery Module.

**** The Kanso Sound Processor is water resistant to level IP54 of the International Standard IEC60529.

† The Freedom Sound Processor is water resistant to level IP44 of the International Standard IEC60529.

‡ The sound processors worn with Aqua+ are dust and water resistant to level of IP68 of the International Standard IEC60529.