Nucleus® 7 Sound Processor

User Guide



Hear now. And always

Cochlear®

About this guide

This guide is intended for hearing implant recipients and their carers using the Cochlear™ Nucleus® 7 Sound Processor and accessories. This guide can also be used as a reference by hearing care professionals.

People with certain types of hearing loss can wear the sound processor in Hybrid™ mode by adding an acoustic component which sends amplified acoustic sound into the ear canal. For information about the Hybrid mode including indications and contraindications, refer to the *Hybrid™ User Guide for Nucleus® 8 System and Nucleus® 7 System*.

For information about wearing the sound processor around water, including indications and contraindications, refer to the *Cochlear™ Aqua+ User Guide*.



Note

- Refer to the relevant sections for cautions and warnings relating to the use of the Nucleus 7 processing unit (Model number: CP1000), batteries and other devices.
- Please also refer to your *Important Information* document for essential advice that applies to Cochlear implant systems.

Symbols used in this guide

	Note Important information or advice.
	Tip Time saving hint.
	Caution (no harm) Special care to be taken to ensure safety and effectiveness. Could cause damage to equipment.
	Warning (harmful) Potential safety hazards and serious adverse reactions. Could cause harm to person.

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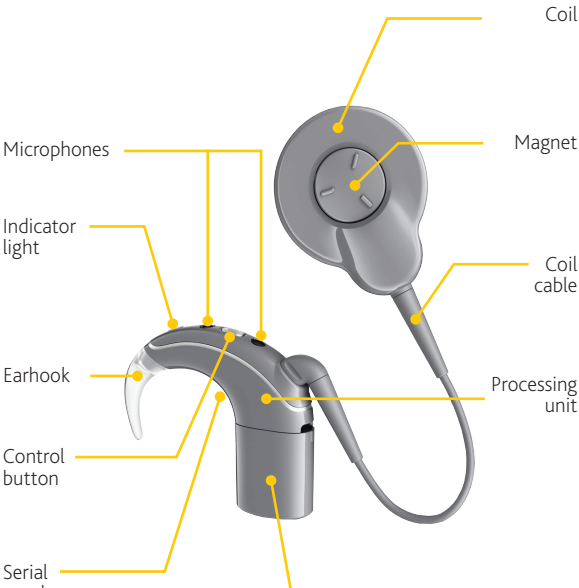
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Nucleus 7 Sound Processor



Warning
Sound processors and related accessories contain small parts that alone or in combination may pose a hazard of inhalation, choking or ingestion. Swallowing or inhaling small parts can cause severe or fatal injuries. Use the tamper-resistant locks to keep small parts attached to the processing unit where available, including parts that fit between the processing unit and battery module.

Always supervise children under 3 years of age and others who may be at risk of inhalation, choking or ingestion of small parts when they use the sound processor and related accessories. When not in use, keep small parts, and combinations of small parts, out of reach from children. If small parts are swallowed or inhaled, seek immediate medical attention.

Intended purpose

The following devices work together as part of the hearing implant system:



Note
The model numbers provided in the following table apply to all instances of the product names in this document.

Devices	Intended purpose
Cochlear™ Nucleus® 7 Processing Unit	The processing unit is intended to be used in combination with other devices as part of a hearing implant system to provide hearing sensation. The processing unit converts sounds into electrical signals, which it sends, via a coil, to an implant. The processing unit also provides power to the implant. When used in combination with an audio receiver, the sound processor also delivers sound to the ear canal in recipients with residual hearing.
Coils: • Cochlear™ Slimline™ Coil • Cochlear™ Slimline™ Coil (5(I)) • Cochlear™ Slimline™ Coil (N22)	The coil is intended to be used in combination with other devices as part of a hearing implant system to supply electrical signals and power between a processing unit and a hearing implant.
Magnets: • Cochlear™ Magnet • Cochlear™ Magnet Reverse Polarity	The magnet is intended to align and hold the coil or processing unit to a hearing implant.

Devices	Intended purpose
Earhooks: • Cochlear™ Earhook [EH1] • Cochlear™ Tamper Resistant Earhook [TR1]	The earhook is intended to be used to assist with wearing the sound processor as part of a hearing implant system.
Battery modules: • Cochlear™ Battery Holder • Cochlear™ Battery Cover [BC1] • Cochlear™ Standard Rechargeable Battery Module [SR1] • Cochlear™ Compact Rechargeable Battery Module	The battery is intended to supply power to a processing unit as part of a hearing implant system.
Battery chargers: • Cochlear™ USB Battery Charger [UC1] • Cochlear™ Y Battery Charger [YC1]	The battery charger is used to charge the rechargeable battery module of the sound processor.
Retention Accessories: • Cochlear™ Hugfit™ [HF1] • Cochlear™ Snugfit [SF1] • Cochlear™ Headworn Adaptor • Cochlear™ Earmould Adaptor [EA1] • Cochlear™ Koala Clip [KC1] • Cochlear™ BTE Headband • Cochlear™ LiteWear Cable • Cochlear™ LiteWear Case [LC1]	The retention accessory is intended to be used to assist with wearing the sound processor as part of a hearing implant system.
Cochlear™ Coil Spacer	The coil spacer increases the spacing between the external coil and the coil of the implant.

Devices	Intended purpose
Cochlear SoftWear™ pad	The SoftWear pad provides a cushioned surface to the surface of the sound processor or coil.
Cochlear™ Monitor Earphone Adaptor with earphones	The monitor earphone adaptor with earphones is intended to provide a hearing person with the ability to check if a processing unit is working by sending audio signals from the processing unit to earphones.

Indications

Sound Processor

The Nucleus 7 Sound Processor is indicated for a recipient with a compatible Cochlear Nucleus implant. The Nucleus 7 Sound Processor is compatible with the following Cochlear Nucleus implants:

- CI600 Series Implants: CI612, CI622, CI624, CI632
- CI500 Series Implants: CI512, CI522, CI532, ABI541
- CI24RE Series Implants: CI422, CI24REH (Hybrid L24), CI24RE (CA), CI24RE (ST)
- CI24R and CI24M Series Implants: CI24R (CA), CI24R (CS), CI24R (ST), CI24M, ABI24M, CI11+11+2M
- CI22M Series Implants: CI22M

Coils

Cochlear Slimline Coil

The Cochlear Slimline Coil is indicated for a recipient with a compatible Cochlear Nucleus implant, a compatible Nucleus processing unit and compatible Cochlear magnet.

Compatible Cochlear Nucleus implants are:

- CI600 Series Implants: CI612, CI622, CI624, CI632
- CI500 Series Implants: CI512, CI522, CI532, ABI541
- CI24RE Series Implants: CI422, CI24RE (CA), CI24RE (ST), CI24REH (Hybrid L24)
- CI24R Series Implants: CI24R (CA), CI24R (CS), CI24R (ST)
- CI24M Series Implants: CI24M, ABI24M, CI 11+11+2M

Compatible processing unit is the Nucleus 7 Processing Unit.

Compatible magnets are Cochlear Magnet strength ½ to 6 and ½(I) to 4(I) and Cochlear Magnet Reverse Polarity strength ½ to 6.

Cochlear Slimline Coil (5(I))

The Cochlear Slimline Coil (5(I)) is indicated for a recipient with a compatible Cochlear Nucleus implant, a compatible Nucleus processing unit and compatible Cochlear magnet.

Compatible Cochlear Nucleus implants are:

- CI600 Series Implants: CI612, CI622, CI624, CI632

Compatible processing unit is the Nucleus 7 Processing Unit.

Compatible magnets are Cochlear Magnet strength 5(I).

Cochlear Slimline Coil (N22)

The Cochlear Slimline Coil (N22) is indicated for a recipient with a compatible Nucleus 22 Series cochlear implant (CI22M, CI 1+10+11, ABI22M), a compatible Nucleus processing unit and compatible Cochlear magnet.

Compatible processing unit is the Nucleus 7 Processing Unit.

Compatible magnets are Cochlear Magnet strength ½ to 6 and Cochlear Magnet Reverse Polarity strength ½(R) to 6(R).

Magnets

Cochlear Magnet (M type, strength ½ to 6)

The Cochlear Magnet (M type, strength ½ to 6) is indicated for use with the Nucleus 7 Series Processing Unit with a compatible Cochlear coil.

Compatible Cochlear coils are:

- Cochlear Slimline Coil
- Cochlear Slimline Coil (N22)
- Nucleus 7 Aqua+ Coil
- Nucleus 7 Aqua+ Coil (N22)

Cochlear Magnet ((I) type, strength ½(I) to 4(I))

The Cochlear Magnet ((I) type, strength ½(I) to 4(I)) is indicated for use with the Nucleus 7 Series Processing Unit with a compatible Cochlear coil.

Compatible Cochlear coils are:

- Cochlear Slimline Coil
- Nucleus 7 Aqua+ Coil

Cochlear Magnet ((I) type, strength 5(I))

The Cochlear Magnet 5(I) is indicated for use with the Nucleus 7 Series Processing Unit with a compatible Cochlear coil.

Compatible Cochlear coils are:

- Cochlear Slimline Coil (5(I))
- Nucleus 7 Aqua+ Coil (5(I))

Cochlear Magnet Reverse Polarity (strength ½(R) to 6(R))

The Cochlear Magnet Reverse Polarity (strength ½(R) to 6(R)) is indicated for use with the Nucleus 7 Series Processing Unit with a compatible Cochlear coil.

Compatible Cochlear coils are:

- Cochlear Slimline Coil
- Cochlear Slimline Coil (N22)
- Nucleus 7 Aqua+ Coil
- Nucleus 7 Aqua+ Coil (N22)

Earhook

The Cochlear Earhook and Cochlear Tamper Resistant Earhook are indicated for use with the Nucleus 7 Processing Unit.

Battery modules

Cochlear Battery Holder

The Cochlear Battery Holder is indicated for use with the Nucleus 7 Processing Unit.

Cochlear Battery Cover (CP1000 variant)

The Cochlear Battery Cover is indicated for use with the Nucleus 7 Processing Unit.

Cochlear Standard Rechargeable Battery Module (CP1000 variant)

The Cochlear Standard Rechargeable Battery Module is indicated for use with the Nucleus 7 Processing Unit.

Cochlear Compact Rechargeable Battery Module

The Cochlear Compact Rechargeable Battery Module is indicated for use with the Nucleus 7 Processing Unit.

Accessories to Sound Processor

The following devices are indicated for use with the Nucleus 7 Processing Unit:

Cochlear Hugfit, Cochlear Snugfit, Cochlear Headworn Adaptor, Cochlear Earmould Adaptor, Cochlear Koala Clip, Cochlear BTE Headband, Cochlear LiteWear Cable, Cochlear LiteWear Case, Cochlear Monitor Earphone Adaptor with earphones, Cochlear USB Battery Charger, Cochlear Y Battery Charger.

Cochlear Coil Spacer

The Cochlear Coil Spacer is indicated for use with a compatible Cochlear Coil (all lengths, types, and colours). Compatible Cochlear coils include:

- Cochlear Slimline Coil
- Cochlear Slimline Coil (5(I))
- Cochlear Slimline Coil (N22)
- Nucleus 7 Aqua+ Coil
- Nucleus 7 Aqua+ Coil (5(I))
- Nucleus 7 Aqua+ Coil (N22)

Cochlear SoftWear pad

The Cochlear SoftWear pad is indicated for use with a compatible Cochlear coil. Compatible Cochlear coils include:

- Cochlear Slimline Coil
- Cochlear Slimline Coil (5(I))
- Cochlear Slimline Coil (N22)

Contraindications

Sound Processor

The Nucleus 7 Sound Processor is not indicated for use with hearing implants other than those listed in *Indications*.

Coils

Cochlear Slimline Coil

The Cochlear Slimline Coil is not indicated for use with hearing implants, processing units or magnets other than those listed in *Indications*.

Cochlear Slimline Coil (5(I))

The Cochlear Slimline Coil (5(I)) is not indicated for use with hearing implants, processing units or magnets other than those listed in *Indications*.

Cochlear Slimline Coil (N22)

The Cochlear Slimline Coil (N22) is not indicated for use with hearing implants, processing units or magnets other than those listed in *Indications*.

Magnets

Cochlear Magnet (M type, strength ½ to 6)

The Cochlear Magnet (M type, strength ½ to 6) is not indicated for use with the devices other than those listed in *Indications*.

Cochlear Magnet ((I) type, strength ½(I) to 4(I))

The Cochlear Magnet ((I) type, strength ½(I) to 4(I)) is not indicated for use with devices other than those listed in *Indications*.

Cochlear Magnet ((I) type, strength 5(I))

The Cochlear Magnet 5(I) is not indicated for use with devices other than those listed in *Indications*.

Cochlear Magnet Reverse Polarity (strength ½(R) to 6(R))

The Cochlear Magnet Reverse Polarity (strength ½(R) to 6(R)) is not indicated for use with the devices other than those listed in *Indications*.

Earhook

The Cochlear Earhook and Cochlear Tamper Resistant Earhook are not indicated for use with processing units other than those listed in *Indications*.

Battery modules

Cochlear Battery Holder

The Cochlear Battery Holder is not indicated for use with processing units other than those listed in *Indications*.

Cochlear Battery Cover (CP1000 variant)

The Cochlear Battery Cover is not indicated for use with processing units other than those listed in *Indications*.

Cochlear Standard Rechargeable Battery Module (CP1000 variant)

The Cochlear Standard Rechargeable Battery Module is not indicated for use with processing units other than those listed in *Indications*.

Cochlear Compact Rechargeable Battery Module

The Cochlear Compact Rechargeable Battery Module is not indicated for use with processing units other than those listed in *Indications*.

Accessories to Sound Processor

The Cochlear Hugfit, Cochlear Snugfit, Cochlear Headworn Adaptor, Cochlear Earmould Adaptor, Cochlear Koala Clip, Cochlear BTE Headband, Cochlear LiteWear Cable, Cochlear LiteWear Case, Cochlear Monitor Earphone Adaptor with earphones, Cochlear USB Battery Charger, Cochlear Y Battery Charger are not indicated for use with processing units other than those listed in *Indications*.

Cochlear Coil Spacer

The Cochlear Coil Spacer is not indicated for use with coils other than those listed in *Indications*.

Cochlear SoftWear pad

The Cochlear SoftWear pad is not indicated for use with coils other than those listed in *Indications*. The SoftWear pad is not indicated for use with the Cochlear Coil Spacer for recipients with a skin flap thickness greater than 7 mm.

Intended patient population

The sound processor and accessories are intended for patients implanted with a compatible Cochlear Nucleus implant. There are no restrictions for the intended patient population of the sound processor and accessories in terms of age, weight, health or other condition.

Benefits

The sound processor and accessories operate in conjunction with a compatible Cochlear Nucleus implant system. Potential benefits of receiving a Cochlear Nucleus implant system include:

- Better understanding of speech in quiet
- Better understanding of speech in noise
- Increased satisfaction based on hearing capabilities.

Intended users

Intended users of the sound processor and accessories are:

- Recipients of a compatible Cochlear Nucleus implant.
- Carers of recipients, who carry out recipient functions as needed. Carers may include parents of paediatric recipients who are less than 12 years old, and nurses or other carers of otherwise dependent recipients.
- Audiologists/clinicians.

Batteries

You have a choice of three battery types for the Nucleus 7 processing unit:



The disposable battery module consists of:

- Cochlear Battery Cover
- Cochlear Battery Holder

It uses two disposable batteries and has a tamper-resistant lock.



The Cochlear Standard Rechargeable Battery Module



The Cochlear Compact Rechargeable Battery Module

Battery life

Batteries should be replaced as needed just as you would with any other electronic device. Battery life varies according to the programs used each day, your implant type, the thickness of skin covering your implant, and the size and type of battery.

A completely empty rechargeable battery will take approximately four hours to recharge.

Rechargeable batteries may take longer to fully recharge with age. To get the longest life from the rechargeable batteries, always recharge before use.

To help you get the longest life from the batteries, your clinician can set your sound processor to turn off two minutes after you take it off your implant.

Lock the battery module to the processing unit

To increase tamper resistance, the battery module can be locked to the processing unit.



1. Push the lock to the far left to lock the battery module.



2. Push the lock to the far right to unlock the battery module.

Warning
Sound processors and related accessories contain small parts that alone or in combination may pose a hazard of inhalation, choking or ingestion. Swallowing or inhaling small parts can cause severe or fatal injuries. Use the tamper-resistant locks to keep small parts attached to the processing unit where available, including parts that fit between the processing unit and battery module. Always supervise children under 3 years of age and others who may be at risk of inhalation, choking or ingestion of small parts when they use the sound processor and related accessories. When not in use, keep small parts, and combinations of small parts, out of reach from children. If small parts are swallowed or inhaled, seek immediate medical attention.

Caution
Always check this lock is unlocked before attaching or removing the battery module.

Lock the disposable battery module cover

The disposable battery module has a tamper-resistant lock to help prevent children opening the battery cover.



LOCK	Turn the locking screw **clockwise** with the battery cover locking tool until it is in a **horizontal** position.
UNLOCK	Turn the locking screw **anticlockwise** until it is in a **vertical** position.

Caution
Always check the locking screw is unlocked before attaching or removing the battery cover.

Replace the battery module

Remove the battery module



1. Twist the battery module as shown to release it from the processing unit.



2. Pull the battery module from the processing unit.

Caution
Always check the tamper-resistant lock is unlocked before removing the battery module (refer to page 20).

Attach the battery module

1. Fit the parts together with the battery module at a slight angle to the processing unit socket.

Rechargeable battery module: align raised marker and arrow on battery module towards back of processing unit



Disposable battery module: align indents and lock on battery module towards back of processing unit



2. Twist the battery module as shown to attach the parts.

   Your sound processor will turn on automatically.



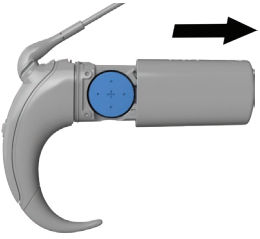
Note
If you do not connect the sound processor to your implant, it will turn off automatically after two minutes, if enabled by your clinician.

Change disposable batteries

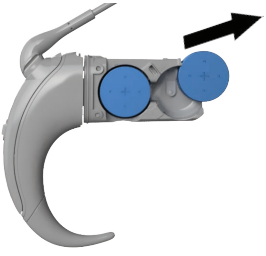
The disposable battery module uses two high power zinc air batteries. Cochlear recommends 675 (PR44) zinc air batteries designed for cochlear implant use. Do not use silver oxide or alkaline batteries.



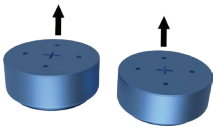
1. **Press and hold** the button for 5 seconds, then **release** to turn off your sound processor.



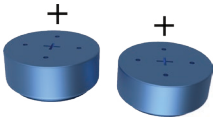
2. Pull the unlocked battery cover away from the battery holder.



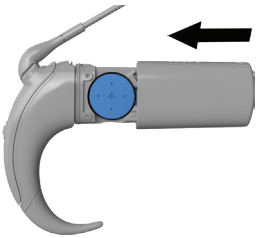
3. Remove the batteries from the battery holder.



4. Remove the new batteries from the packet, and let them stand for a few seconds.



5. Insert the batteries into the battery holder with the flat side (positive terminal) facing up.



6. Replace the battery cover by sliding it up towards the processing unit.

   Lock the cover if required.

   Your sound processor will automatically turn on.

Note
If you do not connect the sound processor to your implant, it will turn off automatically after two minutes, if enabled by your clinician.

Charge rechargeable batteries

There are two chargers that can be used with the rechargeable battery modules:

- Cochlear Y Battery Charger (refer to page 28)
- Cochlear USB Battery Charger (refer to page 30).

Before you start

Your rechargeable battery module has built-in safety and monitoring features. Read this section before using your battery charger.

NEW BATTERIES

You need to charge new batteries before first use.

WHAT DO I DO?

- Before using a new battery module, you need to connect it to a charger until it is fully charged.

CHARGING TEMPERATURE

The battery chargers have a built-in temperature sensor. Batteries must be charged at 0° C – +40° C (+32° F – +104° F). If battery module temperature is outside this range, the LED will flash orange (error).

WHAT DO I DO?

- Charge rechargeable battery modules at a room temperature of 0° C – +40° C (+32° F – +104° F).

BATTERY HEALTH CHECK

Rechargeable battery modules have a built-in "health check". If a charged battery detects a problem, it will turn the sound processor off. If the problem is fixed, it will turn back on again.

WHAT DO I DO?

- If a battery turns off, disconnect and reconnect it to your sound processor. If this does not restore power, contact your clinician.

COMPLETELY FLAT BATTERIES

After many uses or being stored too long, some batteries may be too flat to allow recharging.

WHAT DO I DO?

- If a rechargeable battery module is too flat to charge, the LED will flash orange (error). Replace the battery module.

STORING BATTERIES

Your rechargeable battery module will lose some power if you do not use it for a period of time.

WHAT DO I DO?

- Charge your battery module before storing it.

CONNECTING TO ACCESSORIES

Some accessories (for example, monitor earphone adaptor, Roger™ 20 receiver) fit between the rechargeable battery module and your processing unit.

If you leave them attached after use, this will drain the battery.

WHAT DO I DO?

- Don't leave your battery module attached to an accessory after use.
- Don't attach an accessory with a rechargeable battery module attached to the battery charger.

Use the Y Battery Charger

The Y Battery Charger can charge two rechargeable battery modules at once.

It uses **the supplied USB cable** to plug into:

- a wall power outlet **using the Cochlear USB Power Adaptor**, or
- a USB port (for example, computer).*



1 USB cable
2 Rechargeable battery module connector
3 LED indicator

* USB ports must be high power USB 1.0 or higher. If you use a USB hub to connect more than one USB device to a port, we recommend you use a powered hub.

1. Fit the rechargeable battery module to the charger at a slight angle. Twist to connect.



2. Plug the USB cable into a power outlet or USB port. The LED flashes green while charging.

Note
If you use a power outlet, plug the USB cable into the power adaptor first, then plug the adaptor into the power outlet.



3. The LED changes to steady green when the module is fully charged.



Use the USB Battery Charger

The USB Battery Charger can charge one rechargeable battery module at a time.

It uses a USB connector to plug into:

- a wall power outlet **using the Cochlear USB Power Adaptor**, or
- a USB port (for example, computer).*



1 USB connector
2 Rechargeable battery module connector
3 LED indicator

* USB ports must be high power USB 1.0 or higher. If you use a USB hub to connect more than one USB device to a port, we recommend you use a powered hub.

1. Remove the covers from the charger.



2. Fit the rechargeable battery module to the charger at a slight angle.
   Twist to connect.



3. Plug the charger into a power outlet or USB port.
   The LED flashes green while charging.

Note
If you use a power outlet, plug the USB cable into the power adaptor first, then plug the adaptor into the power outlet.



4. The LED changes to steady green when the module is fully charged.



Connect the coil

Push the coil cable into the processing unit until it clicks into place.

Do not twist.



Pair with remote devices

Before using your sound processor with a compatible Apple® or Android™ device, or the Cochlear Remote Control, you need to pair your sound processor with the remote device.

Please refer to the app or remote user guides for details.

Warning
Consider security when connecting your sound processor to devices such as smartphones or tablets. Only connect to devices that are protected, for example, password or PIN access control. Do not connect to devices that have had their operating system altered.

Android

Your Nucleus 7 Sound Processor is compatible with the ASHA (Audio Streaming for Hearing Aid) protocol. This allows you to use the audio streaming functions of compatible Android devices.

Made for iPhone

Your Nucleus 7 Sound Processor is a Made for iPhone® / iPod® / iPad® hearing device. This allows you to use the control and audio streaming functions of compatible Apple devices.



Note
If you wear a sound processor on both ears, to reliably control your sound processors, use the Nucleus Smart App instead of the Made for iPhone Accessibility Shortcut menu on your compatible Apple device.

If you wear a sound processor on one ear and a compatible hearing aid on the other, you can control them both and stream audio to both using a compatible Apple device. Your clinician can check compatibility and set this up for you.

Nucleus Smart App

With a compatible Apple or Android device, you can use the Nucleus Smart App to control and monitor your sound processor. Please refer to your app user guide for details.

Control options

The table below compares the three ways you can control your sound processor.

Note
Some functions are only available if enabled by your clinician.

FUNCTION	SOUND PROCESSOR BUTTON	REMOTE CONTROL	NUCLEUS SMART APP
Turn ON/OFF	X		
Program	X	X	X
Volume		X	X
Sensitivity		X	X
Telecoil	X	X	X
Wireless devices	X	X	X
Master Volume Limit			X
Bass / Treble			X
ForwardFocus			X

Lock the control button

You can lock the sound processor's control button using the Nucleus Smart App.

Please refer to the app's user guide for details.

Turn on and off

1. To turn **on**, either:
   - Connect the battery (refer to page 23), or
   - If the battery is already connected, **short-press** the button.



2. To turn **off,** either:
   - Disconnect the battery (refer to page 22), or
   - **Press and hold** the button for 5 seconds. The light will change to steady orange as the sound processor turns off.



Note
If you do not connect the sound processor to your implant, it will turn off automatically after two minutes, if enabled by your clinician.

INDICATOR LIGHTS	WHAT IT MEANS
 Green flashes	Turning on sound processor. The number of flashes indicates the number of the current program.
 Quick green flashes	Sound processor flashes while receiving sound from microphones (Child mode only).
 Orange flashes	Sound processor is off the implant.
 Long flash of orange	Sound processor is turning off.

Change program

You can choose between programs to change the way your sound processor deals with sound (for example, in noisy or quiet places). Usually two programs are all you need, but your clinician can give you up to four programs.

1. **Short-press** the button to switch between programs.



Note
If your clinician has enabled SCAN, your sound processor can automatically respond to the sound environment without you needing to change program.

INDICATOR LIGHT	WHAT IT MEANS
Green flashes	Changing the program (Child mode only). The number of flashes indicates the number of the current program.

Change volume and sensitivity

If set up by your clinician, you can control the levels of volume or sensitivity (if available) using your remote control or the Nucleus Smart App.

Please refer to their user guides for details.

Telecoil

Your clinician can enable telecoil if you want to listen to room hearing loops.

Note
Telecoil is optimised for room loops. For phone use we recommend the Cochlear Wireless Phone Clip (refer to page 39) or a compatible smartphone (refer to page 33).

Tip
You can also use your remote control or the Nucleus Smart App to control telecoil. Refer to their user guides for details.

1. **Press and hold** the button for 2 seconds **then release** to turn on telecoil.



Blue: telecoil is on.

2. **Short press** the button to turn off telecoil.



Wireless devices

Cochlear™ True Wireless™ Devices can wirelessly stream sound to your sound processor:

- The **Mini Microphone** or **TV Streamer** are controlled from your sound processor.
- You use the Phone Clip controls for phone calls.



Note
You first need to pair your wireless devices with your sound processor. Refer to their user guide for details.



Tip
You can also use your remote control or the Nucleus Smart App to control wireless devices. Refer to their user guides for details.

Each button press cycles you through telecoil (if enabled), and then your wireless devices (in the order in which they were paired to your sound processor).

Scenario 1: Telecoil is enabled

PRESS	STREAMED AUDIO
1	Telecoil
2	Wireless device 1 (such as Mini Microphone)
3	Wireless device 2 (such as TV Streamer)
4...	Telecoil...

Scenario 2: No telecoil

PRESS	STREAMED AUDIO
1	Wireless device 1 (such as Mini Microphone)
2	Wireless device 2 (such as TV Streamer)
3	Wireless device 3 (such as extra Mini Microphone)
4...	Wireless device 1...

1. **Press and hold** the button for 2 seconds **then release** to stream audio.

   Press and release again if you need to cycle to the next audio source.



Blue: streaming audio.

2. **Short press** the button to stop streaming.



Use monitor earphones

Carers can use monitor earphones to check that a Cochlear implant recipient is receiving sound, and that functions like telecoil or wireless devices are working.

Warning
The battery module is a small part that cannot be locked to the Monitor Earphone Adaptor. Sound processors and related accessories contain small parts that alone or in combination may pose a hazard of inhalation, choking or ingestion. Swallowing or inhaling small parts can cause severe or fatal injuries. Use the tamper-resistant locks to keep small parts attached to the processing unit where available, including parts that fit between the processing unit and battery module. Always supervise children under 3 years of age and others who may be at risk of inhalation, choking or ingestion of small parts when they use the sound processor and related accessories. When not in use, keep small parts, and combinations of small parts, out of reach from children. If small parts are swallowed or inhaled, seek immediate medical attention.

Caution
- Only use Cochlear-approved earphones with the Cochlear Monitor Earphone Adaptor.
- Don't connect multiple monitor earphone adaptors in series.
- Don't connect the monitor earphone adaptor to other audio outputs, for example, computer.



1. Twist to disconnect, then remove the battery module.



2. Insert the monitor earphone adaptor, then twist to connect.



3. Insert the battery module, then twist to connect.



4. Plug the earphones into the monitor earphone adaptor.

Caution
Use only Cochlear-approved earphones.

5. Use the earphones to check that the recipient is hearing sound.
6. Remove the earphones and adaptor as soon as you have finished monitoring.

Note
- Do not put the sound processor on the recipient's implant while using the monitor earphone adaptor, because there is no signal to the coil while it is connected.
- Remember to reconnect the battery module and lock it to your sound processor using the tamper-resistant lock.

Use Phonak's Roger™ 20

Warning
Some models of Roger 20 do not allow the battery module to be locked to the Roger 20. Check if there are tamper-resistant locks on both sides of your Roger 20. If there are, check that both locks are engaged and secure. If the battery module is not locked it can be removed and will pose a choking or ingestion hazard. Always supervise children under 3 years and others who may be at risk of choking on or ingesting small parts if they have the Roger 20 fitted.

1. Connect the Roger 20 to your processing unit.

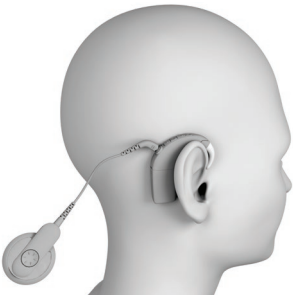
2. Connect the battery module.



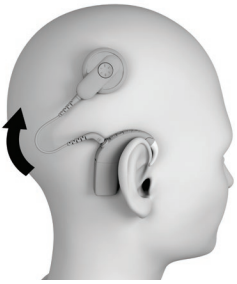
3. After use, disconnect the Roger 20.

Note
Remember to reconnect the battery module and lock it to your processing unit using the tamper-resistant lock.

Wear your sound processor



1. Place the sound processor on your ear, letting the coil dangle.



2. Move the coil sideways and onto your implant.

INDICATOR LIGHTS	WHAT IT MEANS
Flash of orange every second	Sound processor flashes while coil is off (or connected to the wrong implant).

People with two implants

Ask your clinician to give you coloured stickers (red for right, blue for left) to make identifying left and right sound processors easier.

Caution
If you have two implants, you must use the correct sound processor for each implant.

Note
When placing the sound processor on an implant, your sound processor will recognise the implant and will not work on the wrong implant.

Note
If you notice connectivity problems with initially attaching your second sound processor, retry by attaching both sound processors again but in the opposite sequence.

Change earhooks

The Cochlear Earhook comes in small, medium and large sizes.

For extra help wearing your sound processor securely and safely, refer to *Retention accessories* on page 48.

Note
Remove your earhook only when necessary–it may become loose if it is removed too often.



1. Pull up on the earhook to remove it.



2. Click the new earhook into place.

Retention accessories

A range of optional Cochlear accessories are available to help you wear your sound processor securely and safely.

Warning
Only use Cochlear-approved retention accessories.

Note
Hybrid mode cannot be used with retention accessories. They either position the sound processor off the ear, or use a custom earhook which means the acoustic component cannot be fitted.

Cochlear Tamper Resistant Earhook

A small earhook for young children. An extra hook holds it in place to reduce the risk of it becoming a choking hazard.



1. Remove the earhook and battery module.



2. Attach the tamper resistant earhook.



Cochlear Snugfit

Holds your sound processor more securely in place than an earhook alone. Available in small, medium and large.



1. Remove the earhook and battery module.



2. Attach Snugfit.





Cochlear Hugfit

Holds a child's sound processor in place more securely than an earhook alone. Carers can access controls and accessories. Available in three sizes to suit small ears.



1. Remove the earhook and battery module.



2. Attach Hugfit.





Warning

To avoid using a Hugfit that is too tight, it is important that clinicians and parents monitor the size of Hugfit that is used, and change to a larger Hugfit as the child grows.

Cochlear Earmould Adaptor

Allows you to attach a custom earmould if you prefer this to a normal earhook.



Note
The custom earmould is not supplied by Cochlear.

1. Remove the earhook and battery module.



2. Attach the earmould adaptor..





3. Attach the battery module and attach the earmould.



Cochlear Koala Clip

Holds your sound processor so you can clip it onto your clothing. An option for young children until they can wear their sound processor on their ear.



Note
You will need to use a coil with a longer cable.

1. Remove the coil, earhook and battery module.



2. Insert the processing unit into the Koala Clip.



3. Push down on the top of the processing unit when attaching the battery module, to ensure the metal tab on the Koala Clip fits inside the processing unit case.



Orient the sound processor so it faces the same way as when it is worn on the ear.

Note
Make sure the microphones aren't covered (for example, by clothing).

Cochlear Headworn Adaptor

Holds your sound processor and coil, so you can wear them on your head.



Note

- Headworn adaptor comes in right or left side models — your sound processor needs to face the same way as when you wear it on your ear.
- Headworn adaptor works best with a 6, 8 or 11 cm coil cable and a compact rechargeable battery module.
- Headworn adaptor may rotate on your head. If it does, you may need to use a stronger magnet. If you are already using a stronger magnet, you may not be able to use a Headworn adaptor. Contact your clinician.
- Do not forget to change to your original magnet strength when you wear your sound processor behind your ear again.
- If you experience a change in performance when using your processor with the Headworn adaptor, contact your clinician.

1. Attach the body of the sound processor to the Headworn Adaptor.



2. Attach the coil to the Headworn Adaptor.



Cochlear Safety Cord

Clips to clothing so children and active adults are less likely to lose their sound processor.
Available in single or double (for users with two sound processors).



Coil Spacer

Increases the distance between the coil and the implant if you have a thin skin flap. Your clinician will fit the Coil Spacer if it is required.



Cochlear BTE Headband

The Cochlear™ BTE Headband is designed to hold your sound processor(s) in place.



Measure head circumference to choose a size.

Size	Head circumference
XS	40–48 cm
S	45–53 cm

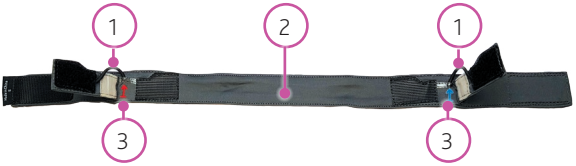
Note

- The headband may affect sound processor performance. If you notice any change, contact your clinician.
- Recommendation: Remove the headband at least once daily, while sleeping. If worn continuously, the headband should not be worn without removal for more than 30 days.

Fit the headband

To fit the headband, follow these steps.

1. **Open** the headband and lay it flat, with the anti-slip section facing you, elastic loops at the top and arrows pointing up.



1 Elastic loop
2 Anti-slip section
3 Arrow

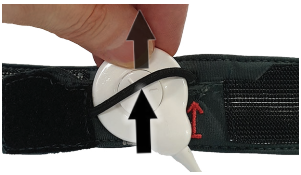
Fit the headband (continued)

2. **Locate** the correct side for your processor and **open** the flap.
   - Right processor goes on the left-side (red arrow)
   - Left processor goes on the right-side (blue arrow).

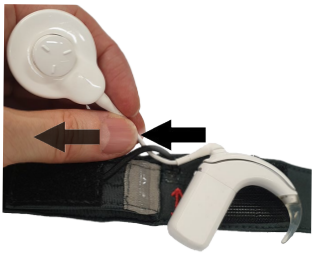




3. **Pull** the coil through the elastic loop in the direction of the arrow.



4. **Pull** the coil cable sideways through the elastic loop.



5. **Position** the processor against the flap and the elastic loop over the processor as shown:



6. **Close** the flap over the processor (press firmly).



7. **Check** that the elastic loop is positioned correctly.



8. If you have **two** processors, place your second processor on the other side.

9. **Place** the headband on your head, making sure that:
   - the anti-slip section is against your forehead
   - your processor is over your implant
   - the headband fits firmly
   - the hook and loop fastener join is secure (press firmly).



Attach a SoftWear pad

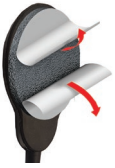
The Cochlear SoftWear pad is optional. If you experience discomfort from your coil, you can attach this adhesive pad to the head side of your coil.



1. Peel off the single backing strip on the adhesive side of the pad.



2. Attach the pad to the head side of the coil–press down firmly.



3. Peel off the two semicircle backing covers on the cushion side of the pad.
4. Wear your sound processor as usual.

Note

- The SoftWear pad may affect your sound processor's performance. If you notice any change, contact your clinician.
- Do not use the SoftWear pad with a Cochlear Nucleus 7 Aqua+ Coil or the Cochlear Coil Spacer.

Sport and exercise

Tip
Always ensure the battery cover and battery modules are locked when you exercise or play sport.

Note
If you want to use your sound processor around water, ask your clinician about the Cochlear Nucleus 7 Aqua+.

1. Use retention accessories such as the Snugfit or Safety Cord to help hold your sound processor in place when you play sport or exercise.



2. After exercise, wipe your sound processor with a soft cloth to remove sweat or grime.



3. Then check your microphone protectors for dirt.

Refer to *Change microphone cover* on page 54.



Travel

Note
Visit www.cochlear.com/clinic-finder to find the nearest clinic in places you are travelling.

- Take a printout from your clinician of your most recent programs in case you need help with your sound processor.
- If you have a backup sound processor, check that it is programmed correctly and take it with you.
- It's okay to move through metal detectors and full body scanners with your sound processor on. To avoid any possible buzzing sounds in your ear, turn off the telecoil.
- Ask your clinician for a Patient Identification Card. In the unlikely event that your implant sets off a metal detector the ID card will help explain that you have an implanted medical device.
- If you need to remove your sound processor as you move through airport security, place it in a case in your hand luggage.
- Your sound processor transmits high frequency radio waves when switched on, and may need to be placed in a flight-safe mode during takeoff and landing. Check with airline staff before flying if you are unsure.

Flight mode

Note
In flight mode, you can change programs as normal using the sound processor button. You can only use telecoil to stream audio, as True Wireless Devices will not be available.

To enter flight mode:

1. Disconnect the battery.



2. **Press and hold** the button (1) while reconnecting the battery (2).

   Release the button when the green light comes on.



To exit flight mode:

1. Disconnect and reconnect the battery.

Regular care

Caution

- Do not use cleaning agents or alcohol to clean your sound processor or accessories.
- Turn your sound processor off before cleaning or performing maintenance.

Every day

- Check all parts and any accessories you use (for example, Snugfit, SoftWear pad) for dirt or moisture. Wipe the processing unit, coil, cable, earhook and accessories with a soft dry cloth. (You can leave accessories on the processing unit while cleaning.)
- Keep your sound processor free from moisture by drying it every night in your dry aid kit.
- Remove the battery module and make sure all the contacts are clean. Carefully tap or blow on them to remove any dirt. Wipe the contacts with a soft dry cloth.
- Keep accessories clean. Blow on connectors to remove any dust and clean accessories with a soft dry cloth.
- Check the microphone protectors for signs of dirt or grime and replace if needed. Refer to *Change microphone cover* on page 71.

Every month

- Check if earhooks or retention accessories are becoming loose or showing signs of wear. Replace as needed. Refer to *Change earhooks* on page 47, or your retention accessory's instructions.
- Replace a SoftWear pad (if used) if it is worn or damaged, or has accumulated dirt or moisture that cannot be wiped off. If you have any problem with comfort, that is not helped by changing the SoftWear pad, contact your clinician. Refer to *Attach a SoftWear pad* on page 60.
- If you use disposable batteries, check if the battery cover is becoming loose. If it is, replace the Cochlear Battery Holder O-ring.

Every two months

- Replace the dry brick in your dry aid kit.

Every three months

- Replace the microphone cover–this is very important for the quality of sound. Refer to *Change microphone cover* on page 71.

Battery charger care

Every day

- Check your battery charger is clean. If you notice any dust or dirt:
  1. Disconnect the battery charger from the power source and remove any battery modules.
  2. Hold the battery charger upside down and tap it gently to remove any dirt from the battery charger sockets. Carefully blowing on the sockets may also help remove dirt.
  3. Wipe the battery charger sockets with a soft dry cloth.
- (Y Battery Charger) Use a different charger socket each time you charge to wear the sockets evenly.

If it gets wet

- If the battery charger ever gets splashed with liquid, carefully shake out the liquid and dry the battery charger for 24 hours. Do not use the battery charger until it is dry.

Headband care

Caution
Before cleaning your headband, remove the sound processor.

If the headband is dirty:

- Wash in cold water (machine or hand wash).
- Do not bleach.
- Do not tumble dry.
- Iron on medium heat.

Storage

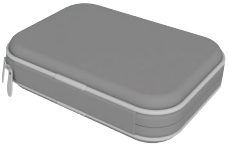
Dry aid kit



Store your sound processor at night in the dry aid kit provided by Cochlear:

- using **disposable batteries:** store the sound processor fully assembled.
- using a **rechargeable battery:** remove the battery module and recharge if necessary. Leave the coil attached to the processing unit and store in the dry aid kit.

Storage case



For long term storage:

- remove disposable batteries and store so they do not touch each other.
- remove rechargeable battery modules and store fully charged.

Storage cases are available from Cochlear.

Water, sand and dirt

Your sound processor is resistant to water, sand and dust. However, it is still a precision electronic device so you should take the following precautions.



If your processing unit ever gets wet, dry it with a soft cloth.

Then remove the battery module (and disposable batteries if used), dry them and the contacts with a soft cloth, and replace them.

Replace the microphone protectors and place your processing unit in the dry aid kit provided by Cochlear for 8 hours.

Refer to *Batteries* on page 18.

Refer to *Change microphone cover* on page 71.



If sand or dirt ever enters the processing unit, shake the components carefully to remove it.

Your processing unit is protected against failure from dust and temporary immersion in water (IP57 rated) when you wear it with:

- a rechargeable battery module;
- a coil;
- and no acoustic component.

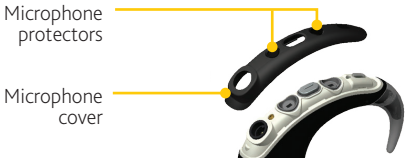


If you use a disposable battery module instead of a rechargeable battery module, or use the processing unit with an acoustic component worn in the ear, it is protected against failure from dust and splashing water (IP54 rated).



Change microphone cover

Replace your microphone protectors every three months, or if they look dirty or you notice any loss in sound quality. They are built into the Cochlear Microphone Cover, which is completely replaced.



Step 1: Remove old microphone cover



1. Hold the coil cable grip and firmly **pull it straight out** of the processing unit.
   Do not tug on the flexible part of the coil cable.

Caution

Do not twist the coil cable when you pull it out of the processing unit.



2. Lift the microphone cover from the bottom edge, then lift it up to remove.

Step 2: Insert new microphone cover



1. Fit the replacement microphone cover onto the processing unit.



2. Press down firmly with a finger on each end of the microphone cover until you feel a click.



3. Push your coil cable into the processing unit until it clicks. **Do not twist.**

Change the coil

The Cochlear Slimline™ Coil comes in four cable lengths (6, 8, 11 and 25 cm) so you can choose the most comfortable fit.

You might also need to change to a different cable length to use some retention accessories (for example, Koala Clip).

Note
Only remove the coil from your processing unit when necessary.



1. Hold the coil cable grip and firmly **pull it straight out** of the processing unit.
   Do not pull on the flexible part of the coil cable.

Caution
Do not twist the coil cable when you pull it out of the processng unit.



2. Push the new coil cable into the processing unit until it clicks into place.
   Do not twist.

Change the coil magnet

You need to choose a Cochlear Magnet that is the correct strength–if it is too weak the coil may fall off, and if it is too strong it may cause discomfort.

Magnet strengths range from **½** (weakest) to **6** (strongest) for standard magnets and **½(I)** (weakest) to **5(I)** (strongest) for '**(I)**' magnets.

You might also need to change to a stronger magnet to use some retention accessories (for example, Headworn adaptor).

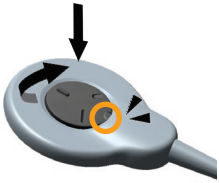
Note
If your clinician has provided you with a Cochlear Magnet Reverse Polarity, use it as described here for a normal magnet.



1. With finger grips facing up, unscrew the magnet anticlockwise.



2. Remove the magnet.



3. Insert the new magnet and turn clockwise until it stops.
4. Turn the magnet a little more until you feel a click.

Tip
The tamper-resistant lock marker aligns with the cable when locked.

Lights

Your clinician can set up your sound processor to show some or all of the following light indications.

Turning on and off

LIGHT	WHAT IT MEANS
 … Quick green flashes	Sound processor flashes while receiving sound from microphones (Child mode only).
 Quick green flashes	Turning on and changing programs. Number of flashes indicates the number of the current program.
 Long flash of orange	Turning off sound processor.

Locking button

LIGHT	WHAT IT MEANS
 Green flash followed by orange	Locking sound processor button.
 Orange flash followed by green	Unlocking sound processor button.
 Orange flash when pressing button	Sound processor button is locked.

Streaming audio

LIGHT	WHAT IT MEANS
 Flashes blue for 4 seconds	Sound processor flashes when pairing to wireless device is successful.
 Quick blue flashes	Sound processor flashes while receiving audio from an audio source (Child mode only).

ForwardFocus *

LIGHT	WHAT IT MEANS
 Quick green flash	Turning ForwardFocus on/off (Child mode only).

* If available, Nucleus Smart App only

Alerts

LIGHT	WHAT IT MEANS
 Flash of orange every second	Sound processor flashes while it is off your head (or connected to the wrong implant).
 Orange flashes	Sound processor batteries are low. Change batteries.
 Steady orange	Fault. Contact your clinician. Stays on until the issue is resolved.

Battery charging

LIGHT	WHAT IT MEANS
	Battery module is charging.
	Battery module is fully charged.
	Error (refer to *Troubleshoot* on page 81).

Beeps

Your clinician can set up your sound processor so you can hear the following beeps (they are only audible to you).

Turning on and off

BEEP	WHAT IT MEANS
 Short high beeps	Changing the program. The number of beeps indicates the number of the selected program.
 Short high beep	Changing volume or sensitivity level (if available).
 Short high then short low beep	When changing volume or sensitivity, indicates upper or lower limit of volume/ sensitivity reached.

Locking button

BEEP	WHAT IT MEANS
 Short low beep when you press button	Sound processor button is locked.
 Short high then short low beep	Locking sound processor button.
 Short low then short high beep	Unlocking sound processor button.

Telecoil

BEEP	WHAT IT MEANS
 Long high beep	Switching between using the microphones and telecoil.

Wireless devices

BEEP	WHAT IT MEANS
 5 ascending beeps	Connecting with wireless device to begin streaming audio.
 Short low beep	When stopping streaming.

Alerts

BEEP	WHAT IT MEANS
 2 Short low beeps	Sound processor batteries are low. Change batteries.
 Short low beeps for 4 seconds	Batteries are empty and sound processor is turning off. Change batteries.
 4 long low beeps over 4 seconds	General fault. Consult your clinician.

Adjusting master volume limit, bass and treble *

BEEP	WHAT IT MEANS
 Loud long medium beep	Adjusting master volume limit.
 Loud long high beep	Adjusting treble level.
 Loud long low beep	Adjusting bass level.

ForwardFocus *

BEEP	WHAT IT MEANS
 Short high beep	Turning ForwardFocus on/off.

* If available, Nucleus Smart App only

Troubleshoot

Contact your clinician if you have any concerns regarding the operation or safety of your sound processor.

PROBLEM	RESOLUTION
Sound processor will not turn on/ button will not respond	1. Try turning the sound processor on again. Refer to *Turn on and off* on page 35. 2. Try unlocking the button. Refer to *Lock the control button* on page 35. 3. Change the batteries. Refer to *Replace the battery module* on page *22* or *Change disposable batteries* on page *24*. 4. If you are using a new rechargeable battery, that has not been charged it may still be in "Sleep Mode". Refer to *Charge rechargeable batteries* on page *26*. 5. If you have two implants, check that you are wearing the correct sound processor on each implant. 6. Check the battery contacts are free of dirt and dust. Refer to *Water, sand and dirt* on page 69. 7. If the problem continues, contact your clinician.
The sound processor switches off	1. Ask your clinician if "Auto power off" is enabled. If it is, then the sound processor will switch off after two minutes when not connected to the implant. 2. Change the batteries. Refer to *Replace the battery module* on page *22* or *Change disposable batteries* on page *24*.

PROBLEM	RESOLUTION
The sound processor will not turn off	1. Check the sound processor is not locked. Refer to *Lock the control button* on page 35. 2. Remove the battery module from the processing unit. Refer to *Remove the battery module* on page *22*.
You are not sure what sound processor beeps or light flashes mean	Refer to *Lights* on page 75 and *Beeps* on page 78.
You do not hear sound or sound is intermittent	1. Make sure the coil cable is fully inserted into the socket on the processing unit. 2. Make sure you are using the correct coil magnet for your implant. If unsure, contact your clinician. 3. If you use the Remote Control, turn up the volume. 4. If you use the Nucleus Smart App, turn up the volume or sensitivity. 5. Try a different program. Refer to *Change program* on page 37. 6. Change the batteries. Refer to *Replace the battery module* on page *22* or *Change disposable batteries* on page *24*. 7. If the problem continues, contact your clinician.
You hear intermittent sound, a buzzing sound or distorted speech	1. Check for sources of interference such as radio and TV transmission towers (within approximately 1.6 km or 1 mile), shopping centres, airport security systems and mobile phones. 2. Try moving away from any source of magnetic or electronic interference. 3. If the problem continues, contact your clinician.

PROBLEM	RESOLUTION
Sound is too loud or uncomfortable	1. If you use a Remote Control, turn down the volume. 2. If you use the Nucleus Smart App, turn down the volume or sensitivity. 3. Try a different program. Refer to *Change program* on page 37. 4. If you have two sound processors (one for each side), ensure you have them on the correct side. 5. If the problem continues, remove the processing unit and coil from your head immediately and contact your clinician.
Sound is too quiet or muffled	1. If you use a Remote Control, turn up the volume. 2. If you use the Nucleus Smart App, turn up the volume or sensitivity. 3. Try a different program. Refer to *Change program* on page 37. 4. Try changing the microphone protectors. Refer to *Change microphone cover* on page 71. 5. If the problem continues, contact your clinician.

PROBLEM	RESOLUTION
You want to confirm your sound processor is receiving sound	1. Check the light on the top of the sound processor (if enabled). Refer to *Lights* on page 75. 2. If you have a monitor earphone adaptor, a hearing person can listen to the sound received by the sound processor. Refer to *Use monitor earphones* on page 41. 3. If you use the Nucleus Smart App, use the Status screen to check the sound processor is receiving sound 4. If the problem continues, contact your clinician.
The sound processor or coil become hot	Remove the processing unit, coil and any cables from your head immediately, disconnect the battery module and contact your clinician.
You experience tightness, discomfort or develop a skin irritation at your implant site	1. Your coil magnet may be too strong or in contact with your skin. Change to a weaker magnet. Refer to *Change the coil magnet* on page 74. 2. Try using an adhesive SoftWear pad. Refer to *Attach a SoftWear pad* on page 60. 3. If you are using a retention aid, such as a headband, this may be placing pressure on your sound processor. Adjust your retention aid, or try a different aid. 4. If the problem continues, contact your clinician.

PROBLEM	RESOLUTION
You do not hear sound from a wireless devices	1. Testing has shown that interference from nearby electrical devices can sometimes disrupt streaming from a wireless device – try moving away from any device that might be causing this interference. 2. Check that the wireless device is charged and turned on. 3. Check that the wireless device is paired with your sound processor. 4. Check the volume of the wireless device. 5. If you use the Nucleus Smart App, use the Status screen to check the sound processor is receiving sound from the device. 6. If you use the Nucleus Smart App, check and adjust the device/microphone volume. 7. If available, try a different sound processor. 8. For more troubleshooting, refer to the *True Wireless Accessories Supplement*.
You do not hear sound from a monitor earphone	1. Check that the monitor earphone cable is fully inserted into the socket on the monitor earphone adaptor. 2. Check that the monitor earphone adaptor is properly connected to the sound processor and battery module. 3. If you use the Nucleus Smart App, use the Status screen to check the sound processor volume level. 4. If available, try a different sound processor.
You hear loud or distorted sound from a monitor earphone	Remove the monitor earphone and consult your clinician.

PROBLEM	RESOLUTION
The sound processor gets wet	1. Dry the sound processor with a soft cloth, change the microphone protectors and place the sound processor in the dry aid kit provided by Cochlear for 8 hours. Refer to *Water, sand and dirt* on page 69.
You want to perform a regular check on your sound processor	Refer to *Regular care* on page 65.
Batteries are not lasting as long as usual	1. Clean all connections and parts of the battery module. 2. Clean all connections on the processing unit. 3. Make sure you are using the correct coil magnet for your implant. If unsure, contact your clinician. 4. Try replacing the coil with a new coil. 5. If you are using disposable batteries, check that you are using the recommended batteries. Refer to *Change disposable batteries* on page *24*. 6. Don't forget to let new disposable batteries stand for a few seconds before you put them in the processing unit. 7. If the problem continues, contact your clinician.
The indicator light on the battery charger shows a fully charged battery is still charging	This won't cause any damage to the battery as the charge cycle on a fully charged battery is very short.

PROBLEM	RESOLUTION
The indicator light on the battery charger is flashing orange	1. Only connect rechargeable battery modules to the charger. 2. Try a different rechargeable battery module. 3. If you are using the Y battery charger, try the rechargeable battery module on the other connector on the charger. 4. The room temperature may be outside the operating range of the charger. Try using the charger in a different location. 5. The USB port may not be the correct type. Try another USB port. 6. If using a USB hub, too many devices may be connected to the hub. Try removing some devices from the hub. 7. If using a USB hub, it may not be the correct type. Use a powered hub.
The indicator light on the battery charger does not light	1. The rechargeable battery module is not properly connected. Check the connection. 2. The rechargeable battery module is over-discharged. 3. The rechargeable battery module is faulty. Try a different module. 4. There is no power to the USB port. Check the power supply.

Cautions

- Young children who are developing motor skills are at greater risk of an impact to the head from a hard object (for example, table or chair). Impact to the sound processor may cause damage to the processing unit or its parts. Impact to the head in the area of the Cochlear implant could damage it and result in its failure.
- Most patients can benefit from electrical stimulation levels that are considered safe, based on animal experimental data. The long-term effects of such stimulation in humans are unknown.

Warnings

For parents and carers

- Removable parts of the system (for example, microphone cover, magnets, batteries, battery cover, o-ring, earhooks, accessories) can be lost or may be a choking, ingestion or strangulation hazard. Keep out of reach of children and use the tamper-resistant locks to lock the battery module to the processing unit and the cover to the battery holder.
- Some accessories that fit between the processing unit and the battery module prevent the battery module from being locked to the processing unit, which means that the battery module can be removed and poses a choking or ingestion hazard. Always supervise children under 3 years and others who may be at risk of choking on or ingesting small parts if they have these accessories fitted.
- Parents and carers are advised that unsupervised use of long cables (for example, coil, accessory cables or the headband) may present a risk of strangulation.
- Carers must routinely check the device for signs of overheating and for signs of discomfort or skin irritation at the implant site. Remove the sound processor, coil and any cables immediately if there is any discomfort or pain (for example, if device becomes hot, or sound is uncomfortably loud) and contact your clinician.
- Carers must monitor for signs of discomfort or skin irritation if a retention aid is used that applies pressure to the sound processor or coil. Remove the aid immediately if there is any discomfort or pain, and contact your clinician.
- Keep the dry brick from the dry aid kit away from small children. Swallowing this material can cause serious internal injuries.

- Do not allow children to replace batteries without adult supervision.
- Do not allow children to use a battery charger without adult supervision.

Sound processor and parts

- Each sound processor is programmed specifically for each implant. Never wear another person's sound processor or lend yours to another person.
- Use your Cochlear implant system only with Cochlear-approved devices and accessories.
- If you experience a significant change in performance, remove your sound processor and contact your clinician.
- Your sound processor and other parts of the system contain complex electronic parts. These parts are durable but must be treated with care.
- No modification of this equipment is allowed. Warranty will be void if modified.
- Remove the monitor earphones immediately if the sound level is uncomfortably loud and inform your clinician.
- If the coil magnet is too strong or is in contact with the skin, pressure sores may develop at the implant site. If this happens, or if you experience tightness or pain in this area, stop using your sound processor and contact your clinician.
- Do not apply continued pressure to the coil when in contact with the skin (for example, sleeping while lying on coil, or using tight fitting headwear).
- Do not push the volume too high for comfort in case a loud noise occurs nearby.
- If you need to adjust the volume often, or if adjusting volume ever causes discomfort, contact your clinician.
- Do not use your sound processor in an explosive or oxygen-rich environment.

- Do not let your sound processor or parts entangle with any jewellery (for example, earhook and earrings) or machinery.
- Do not place the sound processor or parts in any household devices (for example, microwave oven, dryer).
- Do not expose the sound processor or parts to heat (for example, never leave them in sunlight, behind a window or in a car).
- Do not use a dry aid kit that has an Ultra Violet C (UVC) lamp (for example, do not use the Freedom™ Dry and Store).
- The magnetic attachment of your sound processor to your implant may be affected by other magnetic sources.
- The magnetic attachment of your sound processor to your implant may affect hearing aids.
- Your sound processor coil and magnet may be affected by metallic or magnetic objects. Keep metallic or magnetic objects away from your coil.
- Store spare coil magnets safely and away from cards that may have a magnetic strip (for example, credit cards, bus tickets).
- Your device contains magnets that should be kept away from life supporting devices (for example, cardiac pacemakers and ICDs (implantable cardioverter defibrillators) and magnetic ventricular shunts), as the magnets may affect the function of these devices. Keep your sound processor at least 15 cm (6 in) from such devices. Contact the manufacturer of the specific device to find out more.
- Your sound processor and remote control radiate electromagnetic energy that may interfere with life supporting devices, (for example, cardiac pacemakers and ICDs). Keep your sound processor and remote control at least 15 cm (6 in) from such devices. Contact the manufacturer of the specific device to find out more.

- Do not place the device or accessories inside any part of your body (for example, nose, mouth).
- Seek medical advice before entering any environment that may adversely affect the operation of your Cochlear implant, including areas protected by a warning notice preventing entry by patients fitted with a pacemaker.
- Some types of digital mobile telephones (for example, Global System for Mobile communications (GSM) as used in some countries) may interfere with the operation of your external equipment. You may hear distorted sound when close, 1-4 m (~3-12 ft), to a digital mobile telephone in use.
- For Cochlear Nucleus cochlear implant recipients only, the maximum diving depth is 40 m (~131 ft). Seek medical advice before diving to ensure you do not have any conditions that might make diving contraindicated (for example, middle ear infection). When wearing a mask, avoid pressure over the implant site.
- Before activities that create electrostatic discharge (for example, playing on plastic playground equipment), remove your sound processor. In rare cases, discharge of static electricity can damage or cause your sound processor to shut down. If your sound processor shuts down, it should resume normal operation after restarting it. If static electricity is present (for example, when putting on clothes over your head, or getting out of a car), before the Cochlear implant system touches any object or person, you should touch something conductive such as a metal door handle.

Batteries

- Use only Cochlear supplied or recommended 675 (PR44) zinc air batteries designed for cochlear implant use. We do not recommend using silver oxide or alkaline batteries.
- Insert disposable batteries in the correct orientation.
- If disposable batteries are short-circuited the sound processor will not work and its temperature can reach +42° C (+107° F). Remove the sound processor and coil immediately and contact your clinician.
- Do not mix disposable batteries that differ by manufacturer, brand, type, age or previous usage.
- Do not leave flat disposable batteries in the sound processor.
- Replace both disposable batteries at the same time.
- Dispose of used batteries promptly and carefully, in accordance with local regulations. Keep away from children.
- Do not short-circuit batteries (for example, do not let terminals of batteries contact each other or do not place batteries loose in pockets).
- Do not disassemble, deform, immerse in water or dispose of batteries in fire.
- When sound processor is not in use, remove the batteries and store separately in a clean and dry place.

- Wipe batteries with a clean dry cloth if they become dirty.
- Store unused batteries in original packaging, in a clean and dry place.
- Do not use damaged or deformed batteries. If skin or eyes come into contact with battery fluid or liquid, wash out with water and seek medical attention immediately.
- Do not expose batteries to heat (for example, never leave batteries in sunlight, behind a window or in a car).
- Never put batteries in your mouth. If swallowed, immediately contact your physician or local poison information service.
- Do not recharge disposable batteries.
- Only use rechargeable batteries and battery chargers supplied or recommended by Cochlear. Use of other batteries or battery chargers may result in harm or injury.
- Charge rechargeable batteries before use.
- Do not touch the battery charger contacts.

Medical treatments

Magnetic resonance imaging (MRI)



The Nucleus 7 Sound Processor, remote and related accessories (such as the Wireless Programming Pod) are MR Unsafe.

Full MRI safety information is available at www.cochlear.com/mri or by calling your regional Cochlear office (contact numbers available at the end of this document).

Medical treatments generating induced currents, heat and vibration

Having a cochlear implant means extra care must be taken when receiving some medical treatments. Before starting medical treatment, the information in this section should be discussed with the recipient's physician.

The sound processor must be removed before starting any of the medical treatments listed in this section.

Some medical treatments generate induced currents that may cause tissue damage or permanent damage to the implant. Before initiating any of the following treatments deactivate the device.

Warnings for specific treatments are provided below.

CONDITION	WARNING
Diathermy	Do not use therapeutic or medical diathermy (thermopenetration) using electromagnetic radiation (magnetic induction coils or microwave). High currents induced into the electrode lead can cause tissue damage to the cochlea/brainstem or permanent damage to the implant. Medical diathermy using ultrasound may be used below the head and neck.
Electroconvulsive therapy	Do not use electroconvulsive therapy on an implant patient under any circumstances. Electroconvulsive therapy can cause tissue damage or damage to the implant.

CONDITION	WARNING
Electrosurgery	Electrosurgical instruments can induce radio frequency currents that could flow through the electrode. Monopolar electrosurgical instruments must not be used on the head or neck of an implant patient as induced currents could cause damage to cochlear/ neural tissues or permanent damage to the implant. When using bipolar electrosurgical instruments on the head and neck of a patient, the cautery electrodes must not contact the implant and should be kept more than 1 cm (½ in.) from the electrodes.
Ionising radiation therapy	Do not use ionising radiation therapy directly over the implant. It may cause damage to the implant.
Neurostimulation	Do not use neurostimulation directly over the implant. High currents induced into the electrode lead can cause tissue damage to the cochlea/ brainstem or permanent damage to the implant
Therapeutic ultrasound	Do not use therapeutic levels of ultrasound energy directly over the implant. It may inadvertently concentrate the ultrasound field and cause tissue damage or damage to the implant.

Other information

Physical configuration

The processing unit comprises:

- Two omni-directional microphones for receiving sound.
- An internal telecoil for receiving magnetic fields radiated by neck loops and room loops.
- Custom analogue and digital integrated circuits with digital signal processing (DSP) and bidirectional wireless communication capabilities.
- A tri-colour visual indication of sound processor function or problem.
- Control button allowing user control of key features.
- Custom 4-pin connector for coil cable.
- A range of earhooks and specialised retention options.

The batteries provide power to the processing unit. The coil acts as a transformer coupling that transfers energy and data to the implant.

Materials

- Processing unit: copolyester.
- Battery modules (all types) are made of copolyester.
- Coil is made of polypropylene (PP), thermoplastic elastomer (TPE).
- Coil magnet casing is made of acrylonitrile butadiene styrene (ABS).
- Coil cable sheath is made of polyvinyl chloride (PVC).
- Coil cable plugs are made of PP and TPE.
- Retention parts are made from polyamide (PA) and liquid silicone rubber (LSR).
- Headband parts are made of polyester, elastane, rubber, spandex and nylon.

Battery life, charge cycles and lifespan

- Battery life means the time a device will run before the disposable batteries must be replaced, or the rechargeable batteries recharged.
- Battery charge cycle is a full charge and discharge of the rechargeable battery.
- Battery lifespan means the total number of charge cycles a rechargeable battery will last before the battery life degrades to 80% of its original fully-charged capacity.

Operating characteristics

Processing unit

CHARACTERISTIC	VALUE/RANGE
Sound input frequency range	100 Hz to 8 kHz
Wireless technology	• Proprietary low power bidirectional wireless link (remote, wireless devices) • Published commercial wireless protocol (Bluetooth Low Energy)
RF frequency	2.4 GHz
Max. RF output power	1 dBm
Operating voltage	2.00 V to 4.25 V
Power consumption	20 mW to 100 mW
Charge cycles	≥ 80% capacity after 400 charge/discharge cycles at room temperature
Button functions	Turn sound processor on and off, turn audio streaming on and off, change program
Remote communication range	• At least 2 m (remote control) • At least 3 m (Phone Clip) • At least 7 m (Mini Microphone, TV Streamer) • At least 2 m (Made for iPhone control) • At least 7 m (Made for iPhone streaming) • At least 7 m (Android streaming*) * available only on compatible Android devices

Battery module

TYPE	CAPACITY/VOLTAGE RANGE
Disposable battery module	Two PR44 (zinc air) button cell batteries. 1.45 V (nominal) each. Cochlear recommends 675 zinc air batteries designed for cochlear implant use.
Compact rechargeable battery module	91 mAh / 3.7 V
Standard rechargeable battery module	183 mAh / 3.7 V

Coil

CHARACTERISTIC	VALUE/RANGE
Operating voltage	2.0 V to 2.6 V
Operating frequency	5 MHz

Wireless communication link

The wireless communication link operates in the 2.4 GHz ISM band using GFSK (Gaussian frequency-shift keying), and a proprietary bidirectional communication protocol. It continuously switches between channels to avoid interference on any specific channel.

- The remote control operates over 4 channels, over a distance of at least 2 metres from the sound processor. It indicates via its display when the sound processor is out of operating distance (or switched off) or when the link is interrupted due to broad spectrum interference (refer to remote's user guide for more information).
- The True Wireless Devices operate over 16 channels, over a distance of at least 3 metres for the Phone Clip, and 7 metres for the Mini Microphone and TV Streamer.

Bluetooth® Smart also operates in the 2.4 GHz ISM band, using frequency hopping over 37 channels to combat interference. Operating range is at least 7 metres, and the app indicates when the sound processor is out of operating distance (or switched off) or when the link is interrupted due to broad spectrum interference.

Product component dimensions *(Typical values)*

ITEM	LENGTH	WIDTH	DEPTH	DIAMETER
Nucleus 7 processing unit with medium earhook and compact rechargeable battery module				
	36.5 mm	9.0 mm	45.0 mm	N/A
Disposable battery module				
	29.4 mm	9.0 mm	17.3 mm	N/A
Compact rechargeable battery module				
	18.0 mm	9.0 mm	17.3 mm	N/A
Standard rechargeable battery module				
	24.8 mm	9.0 mm	17.3 mm	N/A
Cochlear Slimline Coil	N/A	N/A	5.8 mm	30.3 mm

Product weight *(Typical values. All weights are measured with a medium earhook.)*

COMPONENT	WEIGHT
Nucleus 7 processing unit (no battery module)	3.9g
Nucleus 7 processing unit with compact rechargeable battery module	7.9g
Nucleus 7 processing unit with standard rechargeable battery module	9.8g
Nucleus 7 processing unit with disposable battery module (including two 675 zinc air batteries)	10.1g
Coil and cable (without coil magnet)	3.9g

Environmental conditions

CONDITION	MINIMUM	MAXIMUM
Storage & transport temperature	-10° C (+14° F)	+55° C (+131° F)
Storage & transport humidity	0% RH	90% RH
Operating temperature (sound processor)	+5° C (+41° F)	+40° C (+104° F)
Operating temperature (battery charger)	0° C (+32° F)	+40° C (+104° F)
Operating relative humidity	0% RH	90% RH
Operating pressure	700 hPa	1060 hPa

Disposable batteries

Check the battery manufacturer's recommended operating conditions for disposable batteries used in your sound processor.

FCC (Federal Communications Commission) and Canadian ISED compliance

This device complies with part 15 of the FCC Rules and with RSS-210 of Innovation, Science and Economic Development Canada. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Cochlear Limited may void the FCC authorisation to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC ID: WTO-CP1000

IC: 8039A-CP1000

CAN ICES-3 (B)/NMB-3(B)

Electromagnetic compatiblity (EMC)

Warning

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 in) to any part of your Nucleus 7 Sound Processor, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Interference may occur in the vicinity of equipment marked with the following symbol:



Environmental protection

Your sound processor contains electronic components subject to the WEEE Directive 2012/19/EU on waste electrical and electronic equipment.

Help protect the environment by not disposing of your sound processor or batteries with your unsorted household waste. Please recycle or dispose of your sound processor according to your local regulations for electronics.

Radio compliance

The Nucleus 7 Sound Processor fulfils the essential requirements listed in the EC directive 2014/53/EU on Radio Equipment as per the conformity assessment procedure in Annex II. The declaration of conformity may be consulted at www.cochlear.com/wps/wcm/connect/intl/about/company-information/declaration-of-conformity

CE

Summary of safety and clinical performance

A summary of the safety and clinical performance of your devices can be found at https://ec.europa.eu/tools/eudamed.

Refer to *Intended purpose* on page 4 for the full list and names of your devices.

Reliability reports

Reliability reports are available on

www.cochlear.com

Labelling symbols

The following symbols may appear on your sound processor or accessories and/or packaging:

	Refer to instruction manual
	Consult instructions for use
	Specific warnings or precautions associated with the device, which are not otherwise found on the label
	Manufacturer
	Compatible sound processors
	Compatible implant series. Please refer to *Indications* on page 7.
EC REP	Authorised representative in the European Community/ European Union
CH REP	Authorised representative in Switzerland
UDI	Unique Device Identifier
MD	Medical Device
REF	Catalogue number
SN	Serial number
LOT	Batch code
#	Model number
	Date of manufacture

	Temperature limits
CE 0123	CE registration mark with notified body number
CE	CE registration mark
	Contains or presence of natural rubber latex. May cause allergy.
	Radio compliance certification for Australia and New Zealand
	Radio compliance certification for Japan
	Radio compliance certification for Korea
Rx Only	By prescription Caution: US law restricts this device to sale by, or on the order of, a physician
	Recyclable material
	Dispose of electrical components in accordance with your local regulations
	Dispose of batteries separately from normal waste and according to your local regulations
	Type B applied part
IP54	Ingress Protection Rating • Protected against access of solid foreign objects greater than or equal to 1.0mm diameter. • Protected against failure from dust penetration. • Protected against failure from splashing water.
IP57	Ingress Protection Rating • Protected against access of solid foreign objects greater than or equal to 1.0mm diameter. • Protected against failure from dust penetration. • Protected against failure from temporary immersion in water.

Serious incidents

Whilst serious incidents in relation to medical devices are rare, it is acknowledged that incidents may happen. As an organisation, Cochlear recognises the potential for harm and will respond to any reported serious incident.

What is a serious incident?

A 'serious incident' means any event that directly or indirectly has caused or could have caused an unexpected or unwanted event including any of the following:

- The death of a patient, user or other person,
- The temporary or permanent serious deterioration of a patient's, user's or other person's state of health,
- A serious public health threat.

Reporting a serious incident

There is no definitive list of events/incidents that constitute a serious incident, however all serious incidents should be reported to:

- Your local Cochlear office
  www.cochlear.com/intl/contact/global-offices

People within the European Union should also report all serious incidents to:

- Your National Competent Authority
  https://health.ec.europa.eu/medical-devices-sector/new-regulations/contacts_en

Compatible accessories

CATEGORY	ACCESSORIES [MODEL NUMBER]
Retention	Cochlear Hugfit [HF1] Cochlear Snugfit [SF1] Cochlear Koala Clip [KC1] Cochlear Headworn Adaptor Cochlear Earmould Adaptor [EA1] Cochlear Earhook [EH1] Cochlear Tamper Resistant Earhook [TR1] Cochlear BTE Headband Cochlear Coil Spacer Cochlear SoftWear pad Cochlear 5(I) Magnet Cover
Loss prevention	Cochlear Safety Cord Cochlear Safety Line (Long) Cochlear Safety Line (Short Double Loop) Cochlear Mic Lock-Stirrup
Water-safe	Nucleus 7 Aqua+ Nucleus 7 Aqua+ Coil Nucleus 7 Aqua+ Coil (5(I)) Nucleus 7 Aqua+ Coil (N22) Nucleus Safety Line
Acoustic component	Cochlear Hybrid Receiver Cochlear Dome Set Cochlear Hybrid Earhook with Removal Tool [Z544862] Cochlear Hybrid Ear Lock Cochlear Hybrid ProWax
Care and maintenance	Cochlear Monitor Earphone Adaptor with earphones Cochlear Nucleus Activity Kit Case Dry & Store Unit Cochlear Microphone Cover [MC1] Storage Case Breeze by Dry & Store® Dry Brik® by Dry & Store® Drying Capsules Microfiber Cloth

CATEGORY	ACCESSORIES [MODEL NUMBER]
Wireless	Cochlear Remote Control [CR310] True Wireless Devices: Cochlear Wireless Phone Clip, Cochlear Wireless Mini Microphone 2, Cochlear Wireless Mini Microphone 2+, Cochlear Wireless TV Streamer
Power	Cochlear Standard Rechargeable Battery Module [SR1] or Cochlear Compact Rechargeable Battery Module Cochlear Y Battery Charger [YC1] Cochlear USB Battery Charger [UC1] Cochlear Battery Cover [BC1] Cochlear Battery Holder Cochlear USB Power Adaptor
Third party	Phonak Roger 20 receiver
Miscellaneous	Cochlear LiteWear Cable Cochlear LiteWear Case [LC1] Recipient Backpack Nucleus Bilateral Identification Adhesive Labels Cochlear Personalisation Covers

Equipment classification

Your sound processor is internally powered equipment Type B applied part as described in the international standard IEC 60601-1:2005/A1:2012+A2:2020, Medical Electrical Equipment–Part 1: General Requirements for Basic Safety and Essential Performance.

Trademark legal notice

ACE, Advance Off-Stylet, AOS, Ardium, AutoNRT, Autosensitivity, Baha, Baha SoftWear, BCDrive, Beam, 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, Kanso, LowPro, MET, MP3000, myCochlear, mySmartSound, Nexa, NRT, Nucleus, Osia, Outcome Focused Fitting, Off-Stylet, Piezo Power, Profile, Slimline, SmartSound, Softip, SoundArc, SoundBand, 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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Hear now. And always

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