Cochlear™

True Wireless™ Accessories

User Guide



Symbols



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.

This document contains information on how to use the Cochlear™ True Wireless™ Accessories with Cochlear implant system components:

Read this document carefully, and the other User Guides which are mentioned within, to ensure that you understand how to use these accessories with your system.

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About this Guide

This guide is intended for use by Cochlear™ Implant recipients using Cochlear Nucleus® CP900 Series Sound Processors. Use this guide along with the User Guides that accompany your Sound Processor, Remote Assistant and Remote Control.

This guide should also be used in conjunction with the User Guide which was packaged with your Wireless Accessory.

This guide describes how to set up and use your Cochlear True Wireless Accessories. Before attempting to set up your new accessory, it is recommended you read the following section "Wireless accessories" to help you understand what each accessory does and the two main steps required to get you up and running.

Wireless accessories

The Cochlear True Wireless Accessories enhance the performance of your Cochlear System by wirelessly transmitting sound from audio sources to your sound processor.

- The Cochlear Wireless Mini Microphones provide the option of simple and discreet one-to-one hearing or versatile functionality for noisy or challenging listening situations
- The Cochlear Wireless TV Streamer transmits sound directly from your TV, sound system or computer
- The Cochlear Wireless Phone Clip wirelessly connects to Bluetooth® devices, for example, mobile phones, music players and navigation systems.





(A) Mini Microphone (B) TV Streamer and (C) Phone Clip

Getting started

Using your wireless accessory for the first time is a two-step process—pair, stream:

Step 1: Pair

Pair your wireless accessory with your sound processor(s) so they can communicate (you only need to do this the first time).

Step 2: Stream

Streaming lets you transmit audio from your wireless accessory to your sound processor.

Mini Microphone 2 & Mini Microphone 2+

The Cochlear Wireless Mini Microphone 2 and Mini Microphone 2+ (hereafter referred to as your Mini Microphone) allow you to stream audio directly to your sound processor. The Mini Microphone 2+ also provides additional functionality.



Mini Microphone.

Operating characteristics

CHARACTERISTIC	VALUE/RANGE		lini phone
		2	2+
One-to-one communication	Operating range up to 25 m	✓	✓
Talk time before recharge required	Approx. 10 hours	✓	✓
Reconnect time window if connection lost	5 minutes	√	✓
Volume lock		✓	✓
Mute function		✓	✓
Built-in drop detection feature	From heights > 75 cm. Mutes output for up to 2 seconds	✓	✓
Multi-use functionality	Table mic, Line-in, Induction- loop and FM Signals		✓

Preparing for use

Charge your Mini Microphone

When using for the first time, allow your Mini Microphone to charge for at least 3 hours, even if the light indicates a full charge.

To charge your Mini Microphone:

- 1. Plug the micro-USB charging cable into the Mini Microphone.
- 2. Plug the other end into a power outlet using the supplied adaptor.

While charging, the LED indicator lights red.

When fully charged (and still connected to the charger), the LED will turn solid red with green flashes every 2 seconds.

If battery level is low the Status indicator LED will blink yellow once every second.



A. B.

(A) Mini Microphone 2 (B) Mini Microphone 2+ charging



Power ON/OFF your Mini Microphone

To power **ON** your Mini Microphone:

- 1. Press and hold the **ON/OFF** button for **2 seconds** until the LED turns green.
- Release the **ON/OFF** button. The LED will blink green every 2 seconds



To power **OFF** your Mini Microphone:

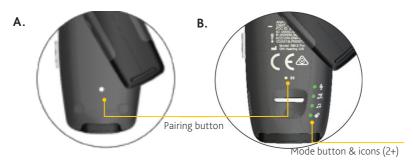
- 1. Stop streaming before you turn off the Mini Microphone.
- 2. Press and hold the **ON/OFF** button until the LED turns red.

Step 1 Pair your Mini Microphone

You first need to pair your Mini Microphone with your sound processor(s), so they can communicate.

To pair your Mini Microphone:

- 1. Remove your sound processor(s).
- 2. Turn **OFF** your sound processor(s).
- 3. Turn **ON** your Mini Microphone by pressing and holding the **ON/ OFF** button on your Mini Microphone for **2 seconds** until the LED turns green.
- 4. Use a pen to press the pairing button once. The LED on top of the Mini Microphone will blink yellow once every 2 seconds for 20 seconds. You must turn on your processor(s) during this 20 second window to pair it with the Mini Microphone.
- 5. Turn **ON** your sound processor(s). It briefly flashes a blue indicator light to tell you pairing has been successful.
- 6. You can now replace your sound processor(s).



(A) Mini Microphone 2 (B) Mini Microphone 2+

NOTE After pairing, if you are not wearing your sound processor, the blue flashing light will change to orange.

Step 2 Stream audio from your Mini Microphone

To hear sound from your Mini Microphone you need to stream audio.

There are 3 ways you can do this:

- Option 1: Using your Remote Assistant
- Option 2: Using Remote Control
- Option 3: Using your sound processor.

Once streaming has been activated, a 3-tone chime or flashing light (depending on your sound processor) will be followed by streamed audio.

When stopping streaming, a short beep will be heard. This will return your sound processor to the last program used.

Option 1: Using your Remote Assistant

- 1. Turn **ON** your sound processor(s).
- 2. Turn **ON** your Remote Assistant. The **Home** screen displays.
- 3. Turn **ON** your Mini Microphone.
- 4. You can start streaming with your Remote Assistant in two ways:
 - Method 1: Press and hold the Telecoil button for 2 seconds, then release.

Your Mini Microphone displays as an icon on the **Home** screen:





- **Method 2:** From the **Home** screen, press the right arrow button until you see the **Stream** selector screen. Scroll down the list to the channel you want to use and press **OK**.
- 5. To stop streaming, either:
 - **Tap** the Telecoil button, or
 - Select **OFF** on the **Stream** selector screen then press **OK**.

STREAM





Option 2: Using your Remote Control

- 1. Turn **ON** your sound processor(s).
- 2. Turn **ON** your Remote Control.
- 3. Turn **ON** your Mini Microphone.
- 4. **Press and hold** the Telecoil button for 2 seconds, **then release**.
- 5. To stop streaming, **tap** the Telecoil button.



NOTE

Screen features may differ between products. Always consult the user guide that came with your device for product specific details.



Option 3: Using your sound processor(s)

- 1. Turn **ON** your sound processor(s).
- 2. Turn **ON** your Mini Microphone.
- 3. **Press** and **hold** the button on your sound processor for 2 seconds, **then release.** Your sound processor flashes a blue light to indicate streaming.

Note: For processors with two buttons, this is the top button.

4. To stop streaming, **tap** the button on your sound processor.



Using your Mini Microphone

One-to-one communication

The Mini Microphone can be worn by the speaker by clipping the microphone in a vertical position within 10-40 cm from the speaker's mouth. Your Mini Microphone provides direct one-to-one communication with minimal background noise.

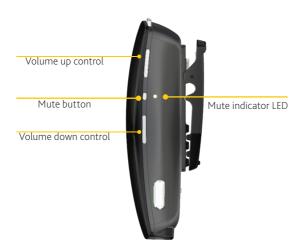
Note: Make sure the Status indicator LED on the Mini Microphone is pointing towards the speakers' mouth when worn this way.

Use as a table microphone (2+ only)

When placed horizontally on a table, your Mini Microphone 2+ automatically switches from directional mode (for one-to-one communication) to omnidirectional mode to pick up the voices of multiple speakers.

Test your Mini Microphone

Tap on or blow into the Mini Microphone to test that it is streaming. If you don't hear anything at first, you may need to turn up the volume on your Mini Microphone.



Volume control

Adjust your volume

To change the volume, use the volume control located on the side of your Mini Microphone.

Mute your volume

The signal from the Mini Microphone can be muted, for example if the wearer needs to have a separate conversation that is not relevant to the user.

To mute the signal, press the Mute button (located between the volume controls) once. The Mute LED will flash yellow. To unmute, press again. The Mute LED will stop flashing.

Lock your volume

The volume control can be locked to a specific level. When locked, the volume remains fixed at the same level when the Mini Microphone was last turned off.

To lock the volume:

- 1. While streaming from your Mini Microphone, adjust the volume to your desired level.
- 2. Turn **OFF** your Mini Microphone.
- Press and hold the volume '-' button together with the ON/OFF button.
- 4. When the Status indicator LED turns green, keep holding the volume '-' button and **release** the **ON/OFF** button.
- 5. Continue holding the volume '-' button (for about 10 seconds), until a green-yellow-red sequence is shown on the Status indicator LED.

Your volume level is now locked and will remain at this level even after switching the Mini Microphone on and off. The Status indicator LED will give two quick flashes every two seconds.

Note that it is still possible to Mute audio while the volume is locked.

To unlock the volume:

- 1. Turn **OFF** your Mini Microphone.
- Press and hold the volume '+' button together with the ON/OFF button.
- 3. When the Status indicator LED turns green, keep holding the volume '+' button and **release** the **ON/OFF** button.
- Continue holding the volume '+' button (for about 10 seconds), until a green-yellow-red sequence is shown on the Status indicator LFD

Your volume level is now unlocked and can be adjusted as required.

Additional features - Mini Microphone 2+

The Mini Microphone 2+ provides extended audio source connectivity options. You can stream speech and audio in the following ways:

- from the built-in microphones
- from the built-in Telecoil, receiving audio from an induction loop system
- from an external FM receiver attached via the built-in 3-pin Euro pin connector
- from an external, analogue source (PC, laptop, TV etc) connected via the built-in Line-in connector.

Using the Mode button

The mode button is used to view the current mode, switch between input modes and check the battery status.

To view the current mode of operation, press the Mode button (on the back of the Mini Microphone 2+) once. The corresponding LED will light up for 2 seconds.





To change the mode of operation do the following:

- Press the Mode button once. The Mode LED corresponding to the current mode will be lit
- 2. Within 3 sec press the mode button again to change mode.
- 3. Repeat Step 2 until the desired mode is obtained.
- 4. The new mode will be fully operational when the LED turns off after 3 seconds.

For further details relating to mode functions, refer to the User Instructions that came with your Mini Microphone 2+.

Battery Status

To view the current battery status, press and hold the Mode button for around 3 seconds or until one or more of the Mode LEDs start to blink.

REMAINING BATTERY CAPACITY	LED STATUS
75-100%	All Mode LEDs blink
50-75%	Three Mode LEDs blink (FM+Line-in + Telecoil)
25-50%	Two Mode LEDs blink (FM + Line-In)
< 25%	One Mode LED blinks (FM)

TV Streamer

The Cochlear Wireless TV Streamer streams stereo sound directly from your TV, sound system or computer to your sound processors.



^{*} Cables not supplied

TV Streamer

Operating characteristics

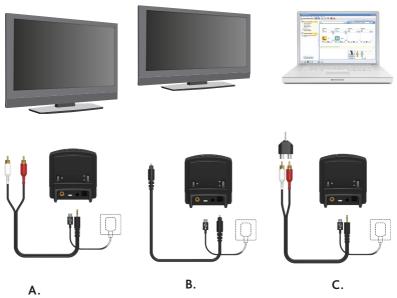
CHARACTERISTIC	VALUE/RANGE
Operating range	Up to 7 metres
Reconnect time window if connection lost	5 minutes

Step 1: Pair your TV Streamer

You first need to pair your TV Streamer with your sound processor(s), so they can communicate.

To pair the TV Streamer:

- 1. Plug the power cable into the micro-USB socket on your TV Streamer and connect it to a wall power outlet.
- 2. Plug the audio cable into the mini-jack audio input socket on your TV Streamer and connect it to the audio source.



Typical connection to **(A)** TV or stereo **(B)** TV **(C)** Computer headphone terminal*:

- 3. The TV Streamer power indicator will light green.
- 4. Remove your sound processor(s).

NOTE

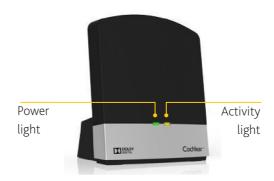
Some connections may result in only you being able to hear the audio, for example, if you connect into a headphone socket on your TV or audio device.

Check your TV user guide for set up options to allow you and others to hear the TV at the same time.



^{*} Mini-jack adaptor not supplied

- 5. Turn **OFF** your sound processor(s).
- 6. Press the pairing button on your TV Streamer once.



The activity light flashes orange for 20 seconds. You must turn on your processor during this 20 second window to pair it with the TV Streamer.

- 7. Turn **ON** your sound processor(s). It briefly flashes a blue indicator light to tell you pairing has been successful.
- 8. You can now replace your sound processor(s).

To hear sound via your TV Streamer you need to stream audio.

Go to Step 2: Stream audio from the TV Streamer.



Step 2: Stream audio from your TV Streamer

There are 3 ways you can stream audio from your TV Streamer:

- Option 1: Use your Nucleus Remote Assistant
- Option 2: Use your Nucleus Remote Control
- Option 3: Use your sound processor.

Option 1: Use your Nucleus Remote Assistant

- 1. Make sure your audio source (computer, stereo, TV, etc.) is turned **ON**.
- 2. Turn **ON** your sound processor(s).
- 3. Turn **ON** your Remote Assistant. The **Home** screen displays.
- 4. Turn **ON** your TV Streamer.
- 5. You can start streaming in two ways:
 - **Method 1: Press and hold** the Telecoil button for 2 seconds, **then release**. This streams audio from channel 1.



Your TV Streamer displays as an icon on the **Home** screen:





• **Method 2:** From the **Home** screen, press the right arrow button until you see the **Stream** selector screen. Scroll down the list to the channel you want to use and press **OK**.



- 6. To stop streaming, either:
 - Tap the Telecoil button, or
 - Select **OFF** on the **Stream** selector screen.



Option 2: Use your Nucleus Remote Control

- 1. Turn **ON** your sound processor(s).
- 2. Turn **ON** your Remote Control.
- 3. Turn **ON** your TV Streamer.
- 4. **Press and hold** the Telecoil button for 2 seconds, **then release**.
- 5. To stop streaming, **Tap the Telecoil button**.



Option 3: Use your sound processor

- 1. Turn **ON** your sound processor(s).
- 2. Turn **ON** your TV Streamer.
- 3. **Press** and **hold** the button on your sound processor for 2 seconds, **then release**. The sound processor flashes a blue light to indicate audio is streaming.
- 4. To stop streaming, tap the button on your sound processor.

To adjust volume using your TV streamer

To adjust the volume, use the volume control on the TV streamer. Depending on your TV / audio set up, this volume may be independent of the volume heard by others.



Adjustable delay mode

In rare cases you may find a misalignment between:

- the audio streamed to your sound processors and the sound coming from the TV speakers (echo); or
- the streamed audio and the TV picture (lip-sync).

You can adjust the audio delay on your TV Streamer. Consult the User Guide that was packaged with your TV Streamer for more information.

Phone Clip

The Cochlear Wireless Phone Clip attaches to your clothing and allows you to wirelessly access Bluetooth devices for use in situations such as:

- making hands-free calls on your mobile phone
- hearing a Bluetooth-enabled navigation system
- streaming music from a Bluetooth-enabled device.



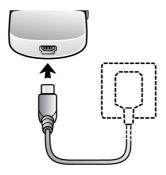
Phone Clip

Operating characteristics

CHARACTERISTIC	VALUE/RANGE
Operating range (processor to Phone Clip)	Up to 3 metres
Operating range (phone to Phone Clip)	Up to 7 metres
Talk time before recharge required	Approximately 6 hours
Reconnect time window if connection lost	30 seconds

Charge your Phone Clip

- 1. Plug the micro-USB charging cable into the base of the Phone Clip.
- 2. Plug the other end into a power outlet using the supplied adaptor.



- 3. While charging, the LED indicator lights red. When fully charged, it lights green with red flashes every 2 seconds.
- 4. The first time you charge your Phone Clip, allow it to charge for at least 3 hours, even if the light indicates a full charge.

If you receive a call it overrides any current audio stream, and you can either answer or reject the call.

NOTE

Remember to turn off your Phone Clip when not in use, and keep it charged. Nominal talk time is 6 hours for the Phone Clip (80 hours on standby).



Step 1: Pair your Phone Clip

You first need to pair your Phone Clip with your sound processor(s), so they can communicate.

Step 1a: Pair your sound processor to the Phone Clip:

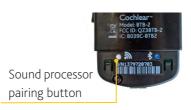
- 1. Remove your sound processor(s).
- 2. Turn **OFF** your sound processor(s).
- 3. Turn **ON** your Phone Clip. The LED on top of the Phone Clip flashes green when it is turned on.



- 4. Remove the silver cover from the base of the Phone Clip by sliding it downwards.
- 5. Use a pen to press the white pairing button on the back of your Phone Clip. You now have 20 seconds to turn on your processor(s) in order to pair it with the Phone Clip.

NOTE

If you use a compatible GN ReSound hearing aid on one side and a cochlear implant on the other, pair the hearing aid first, then the cochlear implant, in the same Phone Clip pairing window.



- 6. Turn **ON** your sound processor(s). It briefly flashes a blue light to tell you pairing has been successful.
- 7. You can now replace your sound processor(s).



Step 1b: Pair your mobile phone to the Phone Clip:

- 8. Turn on Bluetooth on your mobile phone.
- 9. Press the blue pairing button on the back of the Phone Clip. The LED on the top of the Phone Clip lights blue for 2 minutes. While this light is blue you need to pair the Phone Clip with your mobile phone.



- 10. On your mobile phone, select the *Hearing Aid Phone* from the list of Bluetooth devices.
- 11. Replace the silver cover on the base of the Phone Clip.

Now you can use your Phone Clip. Go to Step 2: Use your Phone Clip.

Step 2: Use your Phone Clip

You can also use the phone interface as normal to make, answer and finish phone calls. The only difference is that sound will be streamed automatically to your sound processor(s).

For phone calls:

- Answer a call: press the Call pick-up/hang-up button.
- Reject a call: double-press the Call pick-up/hang-up button.
- Make a call: Press and hold the Call pick-up/hang-up button for 2 seconds, then release. Use voice commands to make a call.
- Finish a call: tap the Call pick-up/hang-up button.



Call pick-up /
hang-up
button

NOTE

For more advanced features, see the User Guide that was packaged with your Phone Clip.



For best performance wear your Phone Clip vertically within 30 cm of your mouth. The Phone Clip comes with a pivoting clip so you can easily rotate it to a vertical position.



NOTE

You may hear a beep whenever an audio signal comes into the Phone Clip, for example, if you receive an SMS. You may be able to disable this using the silent mode on your phone or by turning off phone notifications. See your phone user instructions for more information.

A Phone Clip that is streaming displays as a Bluetooth icon on your Remote Assistant **Home** screen:



To stream music (from a Bluetooth-enabled device):

- 1. Connect (pair) the device (for example, mobile phone or computer) to the Phone Clip using Bluetooth.
- 2. Start playing music on the device. You will hear audio playing in your sound processor.
- 3. To stop streaming, stop playing music on the device.





Using multiple accessories

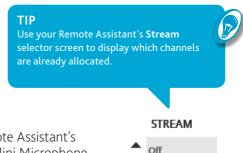
Your sound processor can be paired to more than one wireless accessory. Each accessory needs to be allocated its own 'channel'.

If you have already paired a wireless accessory as per the instructions in this guide, it will be in channel 1.

To pair to another accessory, you must select a free channel.

Your sound processor has 3 channels that can be paired to a Mini Microphone or TV Streamer

The screen shot shows the Remote Assistant's **Stream** selector screen with a Mini Microphone paired to channel 1 and a TV Streamer paired to channel 2.



1 Mini Mic

To pair multiple wireless accessories

If you want to pair to a Mini Microphone or TV Streamer, you must select a free channel (or the newly paired accessory will replace the existing one).

If your sound processor is not paired to any wireless accessories, then press the pairing button on your wireless accessory 1 time to pair to channel 1

- 2 presses for channel 2.
- 3 presses for channel 3.

NOTE The Phone Clip uses its own dedicated channel, so you do not need to select a channel when pairing and it will never show up in the Stream selector screen.

To stream audio with multiple wireless accessories

If your wireless accessory is paired in channel one,

- Press and hold the button on your sound processor for 2 seconds, then release. The sound processor flashes a blue light to indicate audio is streaming.
- 2. To stop streaming, **tap** the button on your sound processor.

If your wireless accessory is paired in channel two:

• **Press** and **hold** the button on your sound processor for 2 seconds, **then release. Repeat this step** to stream from channel 2.

If your wireless accessore is paired in channel three:

 Press and hold the button on your sound processor for 2 seconds, then release. Repeat this step to stream from channel 3

Change the accessory mixing ratio

NOTE You can only do this using your Remote Assistant in Advanced Mode.

To adjust the audio mixing ratio between the wireless accessory and your sound processor microphones:

- On your Remote Assistant, from the **Home** screen, press the right arrow button until you reach the **Settings** screen and press the **OK** button.
- Press the right arrow until you get to the **Accessory Mix** screen.
 Press **OK**



3. Press the **up or down arrow button** to change the mix.

For more information see your Remote Assistant User Guide.

Check the wireless microphone performance

You can measure and compare the signal level received from your sound processor microphones with the signal received from a remote microphone such as Mini Microphone (MM) or FM device.

This measurement can be helpful to:

- set up an FM system
- check that the remote microphone is still providing the desired benefits.

You can display this "Advantage" screen on your Remote Assistant by following these steps:

NOTE

Before following the steps below it is important to choose a quiet place with no background noise.

1. On your Remote Assistant, from the **Home** screen, press the right arrow button until you get to the **Settings** screen then press the **OK** button

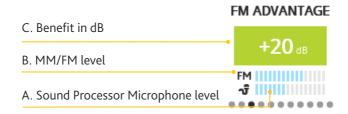


2. Press the right arrow button until you get to the **MM/FM Advantage** screen. Press **OK**.

MM ADVANTAGE



The MM/FM Advantage screen has three main elements:



- A. The **Sound Processor Microphone level** bar graph at the bottom.
- B. The **MM/FM level** bar graph in the middle. This is the wireless accessory sound level.



C. The difference between the remote microphone input and the processor microphone input, measured in decibels (dB). This number shows the **benefit in dB** the user is getting from the remote microphone. If the number is a negative value, then the remote microphone volume may need to be adjusted or there may be too much background noise during the measurement.

Care and maintenance

Wireless accessory care

- Clean your Cochlear Wireless accessory using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean the device.
- When your Wireless accessory is not in use, turn it off and store it safely.
- Protect your Wireless accessory from excessive moisture (bathing, swimming) and heat (radiator, car dashboard).
- Protect it from excessive shock and vibration.
- Protect the microphone and charger sockets from debris and dirt.
- When your TV Streamer is not being used for extended periods, unplug the power supply from the wall socket.

Built-in battery care

The Phone Clip and Mini Microphone are powered by a rechargeable battery.

- A new battery performs optimally after two or three complete charge and discharge cycles.
- The battery can be charged and discharged hundreds of times, but will eventually wear out.
- Unplug the charger from the mains socket and the product when not in use.
- If left unused, a fully charged battery will lose its charge over time.
- Leaving the product in hot places will reduce the battery's capacity and service life.
- A product with a cold battery may not work temporarily, even if fully charged. Battery performance is particularly limited in temperatures well below freezing.

Charger care

Please observe the following if the product is supplied with a charger.

- Do not attempt to charge your product with anything other than the AC adapter provided. The use of other chargers may damage or destroy the product and could be dangerous. Use of other chargers may invalidate any approval or void the warranty.
- For availability of approved accessories, please check with your hearing care professional.
- Charge the product according to the instructions provided.

Warranty

Cochlear True Wireless Accessories have a 1-year warranty period.

For details of the standard warranty terms, conditions and limitation, please refer to your Nucleus Global Limited Warranty.

Certification

Cochlear Bone Anchored Solutions AB, Mölnlycke Sweden is the legal manufacturer of the Cochlear Wireless Accessories.

Cochlear Limited have tested and verified the use of the Cochlear Wireless Accessories with the Nucleus 6 System.

Cautions



information.

- When wireless functionality is activated, your sound processor uses low-powered digitally coded transmissions in order to communicate with your wireless accessories. Although unlikely, nearby electronic devices may be affected. In that case, move the sound processor away from the affected electronic device.
- When using wireless functionality and the devices are affected by electromagnetic interference, move away from the source.
- Cochlear True Wireless Accessories include an RF transmitter that operates in the range of 2.4 - 2.48 GHz. Turn off your wireless functionality in areas where radio frequency emission is prohibited.
- Wireless accessories should be deactivated when not in use. If a processor remains in wireless streaming mode with no input, sounds will be significantly quieter.
- If you are to undergo an MRI (Magnetic Resonance Imaging)
 procedure please refer to the MRI safety information available in
 the MRI section of the Important Information Booklet, available at
 www.cochlear.com/warnings or by calling your regional Cochlear
 office contact numbers available on the back cover of this
 document.

Cochlear[™]

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