Cochlear™

Wireless Accessories

User Guide for Nucleus® 6 System

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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™ Wireless Accessories with the following cochlear implant system components:

- Cochlear Nucleus® CP910 and CP920 Sound Processor
- Nucleus CR210 Remote Control
- Nucleus CR230 Remote Assistant

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 the Nucleus® 6 System. Use this guide along with your Sound Processor and Remote Assistant User Guides.

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™ 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 Wireless Accessories enhance the performance of your Cochlear Nucleus 6 System by wirelessly transmitting sound from audio sources to your sound processor.

- **The Cochlear Wireless Mini Microphone** allows you to hear better over a distance or in noisy 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.

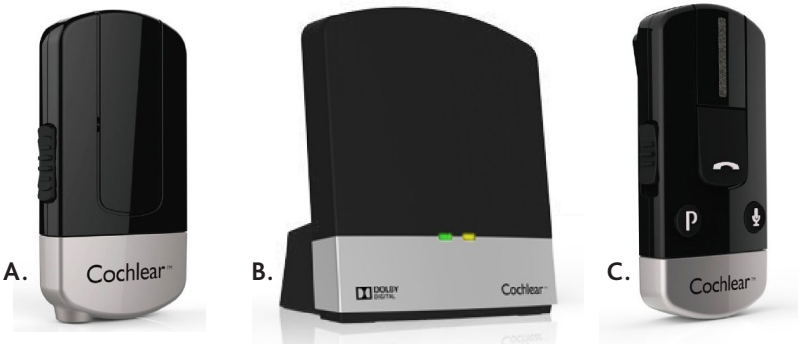

Figure 1. **(A)** Mini Microphone **(B)** TV Streamer and **(C)** Phone Clip

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Two steps—pair, stream

Using your wireless accessory for the first time is a two-step process:

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.

A separate section for each wireless accessory tells you how to pair and stream:

- "Mini Microphone" on page 7
- "TV Streamer" on page 15
- "Phone Clip" on page 22.

NOTE
If your Sound Processor buttons are programmed to adjust volume and sensitivity (Advanced Mode), you cannot use Option 3 (Sound Processor) in the streaming steps for your Mini Microphone or TV Streamer. You will need to use Option 1 or Option 2, which show you how to stream using your Nucleus CR230 or Nucleus CR210.

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Mini Microphone

The Cochlear Wireless Mini Microphone allows you to hear better over a distance (up to 7 metres) or in noisy listening situations. For example you can:

- place it on or near a person to hear them speak in meetings, restaurants, or when travelling by car or public transport
- place it near a TV or radio to hear when sitting a distance away
- plug in an audio device, such as an MP3 player, computer or TV, to stream it when you are nearby.

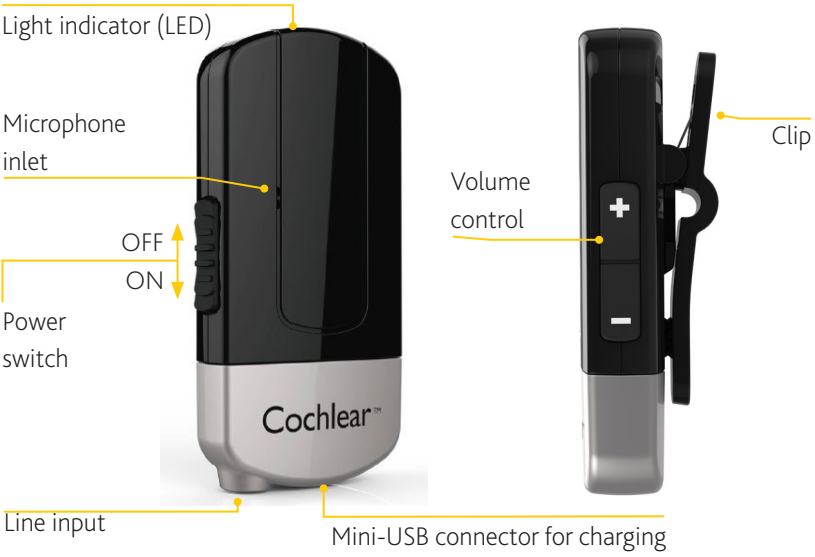

Figure 2. Mini Microphone

Operating characteristics

CHARACTERISTIC	VALUE/RANGE
Operating range	Up to 7 metres
Talk time before recharge required	Approximately 8.5 hours
Reconnect time window if connection lost	5 minutes

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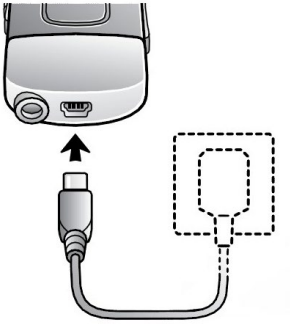
Charge the Mini Microphone

1. Plug the mini-USB charging cable into the base of the Mini Microphone.
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 Mini Microphone, allow it to charge for at least 3 hours, even if the light indicates a full charge.

NOTE
Remember to turn off your Mini Microphone when not in use, and keep it charged. Battery life (talk time) is 8.5 hours.

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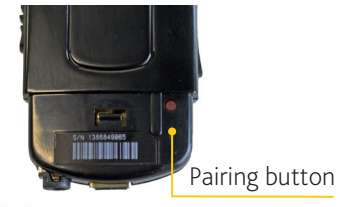
Step 1: Pair the Mini Microphone

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

To pair the Mini Microphone:

1. First remove your sound processor(s) from your ear(s).
2. Turn **OFF** your sound processor(s).
3. Turn **ON** your Mini Microphone. The LED on top of the Mini Microphone flashes green when it is turned on.

4. Remove the silver cover from the base of the Mini Microphone.
5. Use a pen to press the red pairing button once.



The LED on top of the Mini Microphone flashes orange for 20 seconds. You must turn on your processor(s) during this 20 second window to pair it with the Mini Microphone.

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6. Turn **ON** your sound processor(s). It briefly flashes a blue indicator light to tell you pairing has been successful.

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

7. Replace the silver cover on the base of the Mini Microphone.
8. You can now put your sound processor(s) back on your ear(s).

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

Go to *Step 2: Stream audio from the Mini Microphone*.

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Step 2: Stream audio from the Mini Microphone

There are 3 ways you can stream audio from your Mini Microphone:

- Option 1: Using the Nucleus CR230 Remote Assistant
- Option 2: Using the Nucleus CR210 Remote Control
- Option 3: Using your sound processor.

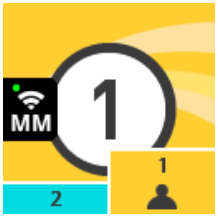
TIP
For ease of use and access to more functions, we recommend you stream using the CR230 Remote Assistant.

Option 1: Using the Nucleus CR230 Remote Assistant

1. Turn **ON** your sound processor(s).
2. Turn **ON** your CR230 Remote Assistant. The **Home** screen displays.
3. Turn **ON** your Mini Microphone.
4. You can start streaming with your CR230 in two ways:

    - **Method 1: Long-press the Telecoil button** (about 3 seconds).

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



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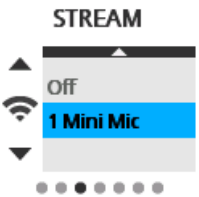
- **Method 2:** From the **Home** screen, press the right arrow button until you see the **Stream** selector screen. Scroll down the list to the channel you want to use and press **OK**.



Test the 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 the Mini Microphone.

Adjust the volume

To change the volume, use the volume control on the Mini Microphone.

5. To stop streaming, either:
   - **Short-press the Telecoil button**, or
   - Select **OFF** on the **Stream** selector screen then press **OK**.

Power off the Mini Microphone

Turn OFF the power to the Mini Microphone when not in use. Be sure to **stop streaming** before your turn off the Mini Microphone.

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Option 2: Using the Nucleus CR210 Remote Control

1. Turn **ON** your sound processor(s).
2. Turn **ON** your CR210 Remote Control.
3. Turn **ON** your Mini Microphone.
4. **Long-press the Telecoil button** (about 3 seconds).

5. To stop streaming, **short-press the Telecoil button**.

For testing, adjusting volume and powering off your Mini Microphone, please see page 12.

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Option 3: Using your sound processor

1. Turn **ON** your sound processor.
2. Turn **ON** your Mini Microphone.
3. **Long-press the upper button** (about 3 seconds) on your sound processor.

4. The sound processor flashes a blue light to indicate streaming.
5. To stop streaming, **short-press the upper button**.

For testing, adjusting volume and powering off your Mini Microphone, please see page 12.

CAUTION
For cautions relating to the use of your Wireless Accessory, refer to "Cautions" on page 35.

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TV Streamer

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

* Cables not supplied

Figure 3. TV Streamer

Operating characteristics

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

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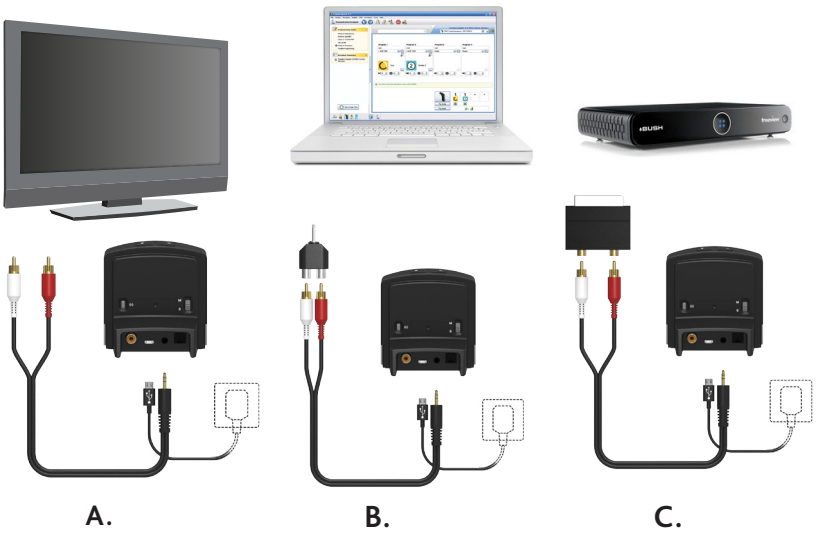
Step 1: Pair the TV Streamer

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)** Computer headphone terminal **(C)** Set top box (Scart terminal)

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

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.

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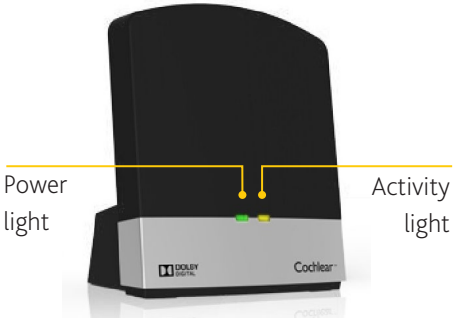
5. Turn **OFF** your sound processor(s).
6. Press the pairing button on your TV Streamer once.

   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 put your sound processor(s) back on your ear(s).

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

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

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

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Step 2: Stream audio from the TV Streamer

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

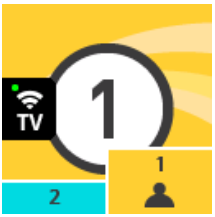
- Option 1: Use the Nucleus CR230 Remote Assistant
- Option 2: Use the Nucleus CR210 Remote Control
- Option 3: Use your sound processor.

Option 1: Use the Nucleus CR230 Remote Assistant

TIP
For ease of use and access to more functions, we recommend you stream using the CR230 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 CR230 Remote Assistant. The **Home** screen displays.
4. Turn **ON** your TV Streamer.
5. You can start streaming in two ways:
   - **Method 1: Long-press the Telecoil button** (about 3 seconds). This streams audio from channel 1.

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



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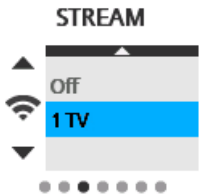
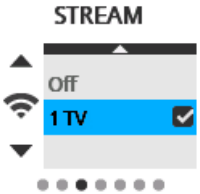
- **Method 2:** From the **Home** screen, press the right arrow button until you see the **Stream** selector screen. Scroll down the list to the channel you want to use and press **OK**.





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

TIP
To change the volume, use the volume control on the TV Streamer.

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Option 2: Use the Nucleus CR210 Remote Control

1. Turn **ON** your sound processor(s).
2. Turn **ON** your CR210 Remote Control.
3. Turn **ON** your TV Streamer.
4. **Long-press the Telecoil button** (about 3 seconds).

5. To stop streaming, **Short-press the Telecoil button**.

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Option 3: Use your sound processor

1. Turn **ON** your sound processor(s).
2. Turn **ON** your TV Streamer.
3. **Long-press the upper button** (about 3 seconds) on your sound processor. The sound processor flashes a blue light to indicate audio is streaming.

4. To stop streaming, **short-press the upper button**.

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.

CAUTION
For cautions relating to the use of your Wireless Accessory, refer to "Cautions" on page 35.

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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.

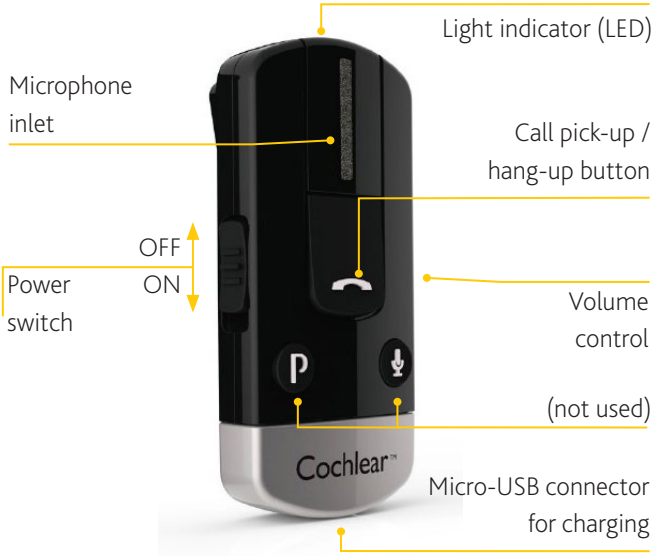

Figure 4. Phone Clip

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

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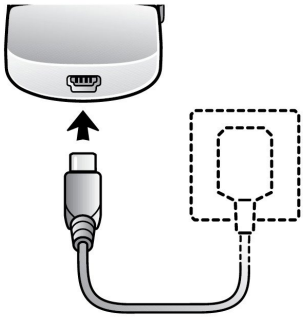
Charge the Phone Clip

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.

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).

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

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Step 1: Pair the Phone Clip

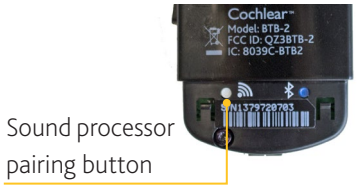
You first need to to pair your Phone Clip with your sound processor(s), so they can communicate.

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

1. Remove your sound processor(s) from your ear(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.



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6. Turn **ON** your sound processor(s). It briefly flashes a blue indicator light to tell you pairing has been successful.

7. You can now put your sound processor(s) back on your ear(s).

NOTE
After pairing, if you are not wearing your sound processor, the blue light will change to orange warning that your coil is not connected.

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 the Phone Clip*.

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Step 2: Use the 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 processors.

For phone calls:

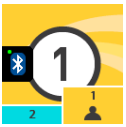
- **Answer a call:** press the **Call pick-up/hang-up button**.
- **Reject a call:** double-press the **Call pick-up/hang-up button**.
- **Make a call:** long press (about 3 seconds) the **Call pick-up/hang-up button**. Use voice commands to make a call.
- **Finish a call:** press the **Call pick-up/hang-up button**.

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

TIP
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 the CR230 Remote Assistant **Home** screen:



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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.

TIP
To change the volume, use the volume control on the Phone Clip.

CAUTION
For cautions relating to the use of your Wireless Accessory, refer to "Cautions" on page 35.

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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.

TIP
Use your CR230 Remote Assistant's **Stream** selector screen to display which channels are already allocated.

For the Mini Microphone and TV Streamer:

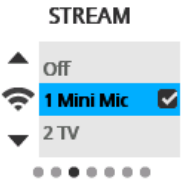
If you want to pair to a Mini Microphone or TV Streamer, you must select a free channel (or the newly paired accessory will replace the existing one).

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.

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



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Change the accessory mixing ratio

NOTE
You can only do this using the CR230 Remote Assistant in **Advanced Mode**.

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

1. On your CR230 Remote Assistant, from the **Home** screen, press the right arrow button until you reach the **Settings** screen and press the **OK** button.
2. 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 CR230 Remote Assistant User Guide.

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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:

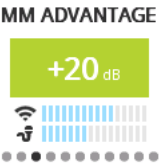
- set up an FM system
- check that the remote microphone is still providing the desired benefits.

You can display this "Advantage" screen on your CR230 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 CR230 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**.



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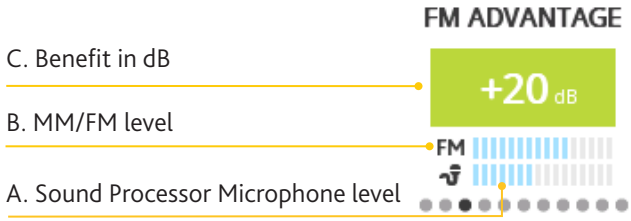
The **MM/FM Advantage** screen has three main elements:



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.

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Care and maintenance

Mini Microphone care

- Clean the Cochlear Mini Microphone using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean the device.
- When the Cochlear Mini Microphone is not in use, turn it off and store it safely.
- Protect the Cochlear Mini Microphone 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.

TV Streamer care

- Clean the Cochlear TV Streamer using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean the device.
- When the TV Streamer is not being used for extended periods, unplug the power supply from the wall socket.

Phone Clip care

- Clean the Cochlear Phone Clip using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean the device.
- When the Cochlear Phone Clip is not in use, turn it off and store it safely.
- Protect the Cochlear Phone Clip 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.

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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.

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Warranty

Cochlear 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 card.

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.

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Cautions

WARNING
Refer to the User Guide that was packaged with your wireless accessory for product-specific warnings and user 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 wireless accessories include a 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.
- 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.

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Cochlear™

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