

This guide is intended for Cochlear implant recipients and their carers using the Cochlear  $^{\text{TM}}$  Nucleus  $^{\text{TM}}$  7 Sound Processor (model number: CP1000). The processor works with your implant to transfer sound to your ear, and is made up of a processing unit, earhook, coil and cable, and a battery module.

You can power your processor with disposable or rechargeable batteries

You can control your processor by pressing its button, or by using your Cochlear Nucleus 7 Remote Control or the Nucleus Smart app.

People with certain types of hearing loss can wear the processor in Hybrid™ mode by adding an acoustic component which sends amplified acoustic sound into the ear canal.

A number of tools and accessories are supplied with your processor.



### NOTES

- Refer to the relevant sections for cautions and warnings relating to the use of the Nucleus 7 Sound Processor, batteries and components.
- Please also refer to your Important Information document for essential advice that applies to Cochlear implant systems.





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.



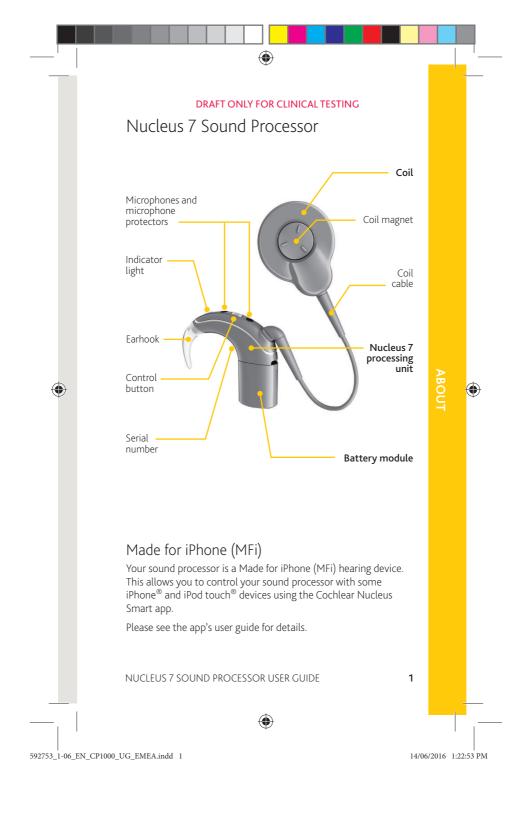
WARNING (harmful)

Potential safety hazards and serious adverse reactions. Could cause harm to person.





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# Contents

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	$\sim$	·V	v	_	

Batteries Battery life Lock the battery module to the processor Lock the disposable battery module cover Replace the battery module Change disposable batteries 10 Charge rechargeable batteries 12	5 7 3
Use	
Turn on and off	9 0 1 1 2
Wear	
Wear your processor26For users with two implants27Change earhooks28Retention accessories29Wear the Headband32Sport and exercise39Travel36Flight mode37	7 3 9 5 5
Wear the Headband.32Sport and exercise35Travel36	5

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 2



14/06/2016 1:22:53 PM

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Regular care38Battery charger care40Storage41Water, sand and dirt42Change microphone cover44Change the coil and cable46Change the coil magnet47
Lights and Beeps 48
Troubleshoot 54
Cautions61
Warnings For parents and carers. 62 Processors and parts 64 Batteries 67 Medical treatments 69
Other information

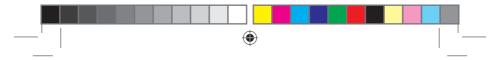
NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:22:53 PM

3

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 3



# **Batteries**

You have a choice of three battery types for the Nucleus 7 Sound Processor:



The disposable battery module consists of:

- Cochlear Nucleus 7 Battery Cover
- Cochlear Nucleus 7 Battery Holder

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





The Cochlear Nucleus 7 Standard Rechargeable Battery Module





The Cochlear Nucleus 7 Compact Rechargeable Battery Module

NUCLEUS 7 SOUND PROCESSOR USER GUIDE









# 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.

The rechargeable battery's lifespan is at least 400 charge cycles. 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 sound processor will turn off two minutes after you take it off your implant, if enabled by your clinician.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



5

14/06/2016 1:22:54 PM

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# Lock the battery module to the processor

To increase tamper resistance, the battery module can be locked to the sound processor.



 Use your battery cover locking tool to 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.



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

NUCLEUS 7 SOUND PROCESSOR USER GUIDE









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# 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.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

7

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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 7

14/06/2016 1:22:56 PM

# DRAFT ONLY FOR CLINICAL TESTING Replace the battery module

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Remove the battery module



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



2. Pull the battery module from the processing unit.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 8

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14/06/2016 1:22:56 PM

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# Attach the battery module

1. Align the battery module to the processor socket to fit the parts together.

Rechargeable battery modules— align raised marker on battery module with back of processing battery module with back of processing











If you do not put your processor on your implant, it will turn off automatically after two minutes, if enabled by your

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NUCLEUS 7 SOUND PROCESSOR USER GUIDE



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 9

14/06/2016 1:22:57 PM

9

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# 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.



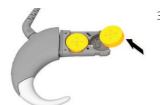
 Press and hold the button for 5 seconds, then release to turn off your processor.





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





3. Remove the batteries from the battery holder.

10

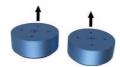
NUCLEUS 7 SOUND PROCESSOR USER GUIDE



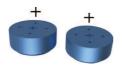




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4. Remove the new batteries from the packet, and let them stand for a few seconds.



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





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

Lock the cover if required

Your processor will automatically turn on.



If you do not put your processor on your implant, it will turn off automatically after two minutes, if enabled by your clinician.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 11

11

14/06/2016 1:22:58 PM

# Charge rechargeable batteries

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

- Cochlear Nucleus 7 Y Battery Charger (see page 14)
- Cochlear Nucleus 7 USB Battery Charger (see page 16).

# Before you start

Your Nucleus 7 rechargeable battery module has built-in safety and monitoring features. Read this section before using your battery charger.

### SLEED MODE

After manufacture, new rechargeable battery modules are put into "sleep mode" which lasts for up to 2 years. This keeps some power in the battery, as a completely flat battery won't charge.

WHAT DO I DO? Before using a new battery module, you need to "wake it up" by connecting it to a charger until it is fully charged.

# 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.

# CHARGING TEMPERATURE

Rechargeable battery modules have a built-in temperature sensor. New batteries must be charged at 0 – 45° C (32 – 113° F). If battery module temperature is outside this range, the LED will flash orange (error).

**WHAT DO I DO?** Charge new rechargeable battery modules at a room temperature of  $0-45^{\circ}$  C (32 – 113° F).







592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 12

Even if your rechargeable battery module goes flat while being used with your Nucleus 7, it should hold some battery life.

This means you can recharge a flat battery module up to 1 year after running it flat.

WHAT DO I DO? Charge your flat battery module after use.



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

# **BATTERY HEALTH CHECK**

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

WHAT DO I DO? If a battery turns off, disconnect and reconnect it to your processor. If this does not restore power, contact your clinician.



Some accessories (e.g. monitor earphone adaptor, FM adaptor) are "sandwiched" between the rechargeable battery module and your

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. This will cause an error.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

14/06/2016 1:22:58 PM

**POWER** 



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# 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 supplied power adaptor **plug**, or
- a USB port (e.g. computer).



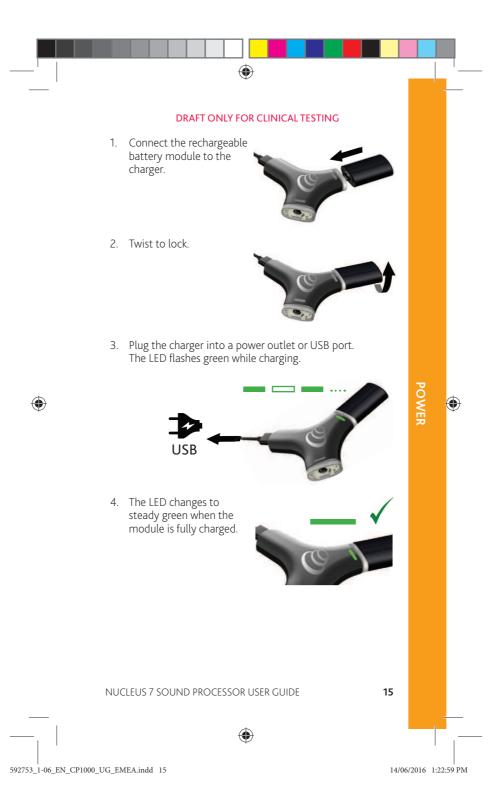
- Power cable Rechargeable battery module connector LED indicator

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 14







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# 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 supplied cable and power adaptor plug, or
- a USB port (e.g. computer).



- USB connector Rechargeable battery module connector LED indicator

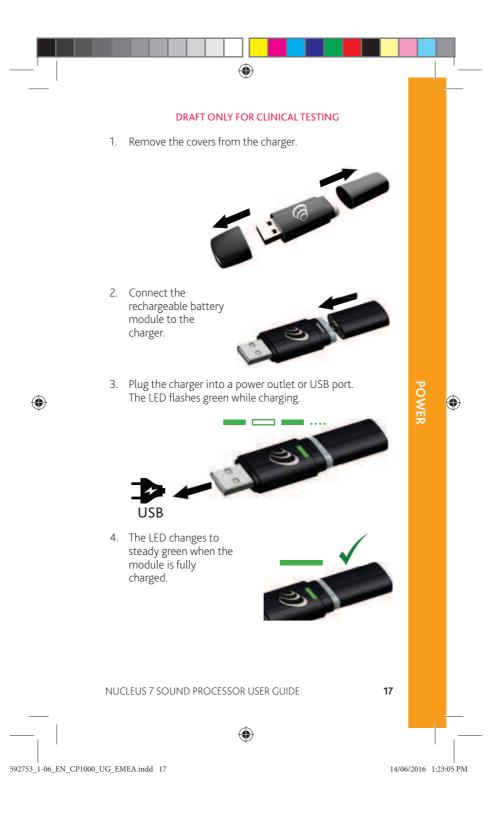
NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 16

16



14/06/2016 1:23:01 PM



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# Turn on and off

- 1. To turn **on** either:
  - Connect the battery (see page 9), or
  - If the battery is already connected, **short press** the button.



# 2. To turn **off**, either:

- Disconnect the battery (see page 8), or
- Press and hold the button for 5 seconds, then release.
   The light will change to steady orange as the processor turns off.







# NOTE

Your processor will also turn off automatically after being off your implant for two minutes, if enabled by your clinician.

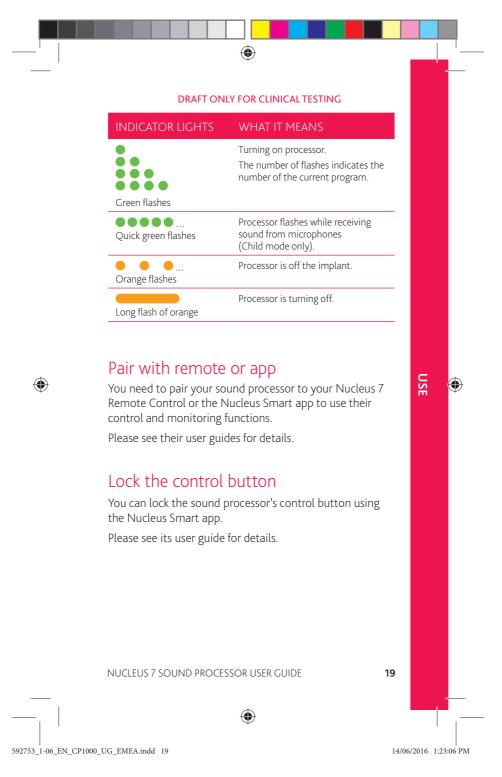
NUCLEUS 7 SOUND PROCESSOR USER GUIDE

18

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14/06/2016 1:23:06 PM



# Change program

You can choose between programs to change the way your sound processor deals with sound (e.g. 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 select the best program for you.



# INDICATOR LIGHT WHAT IT MEANS



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 Nucleus 7 Remote Control or the Nucleus Smart app.

Please see their user guides for details.

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NUCLEUS 7 SOUND PROCESSOR USER GUIDE

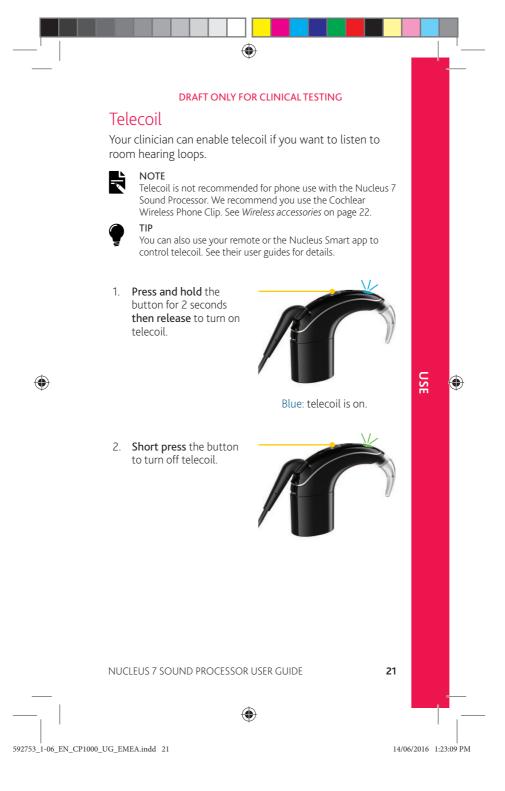


20





592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 20



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# Wireless accessories

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

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



# NOTE

You first need to pair your wireless accessories with your sound processor. See their user guide for details.



You can also use your remote or the Nucleus Smart app to control wireless accessories. See their user guides for details.

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



# Scenario 1: Telecoil is enabled

PRESS	STREAMED AUDIO
1	Telecoil
2	Wireless accessory 1 (e.g. Mini Microphone)
3	Wireless accessory 2 (e.g. TV Streamer)
4	Telecoil

# Scenario 2: No telecoil

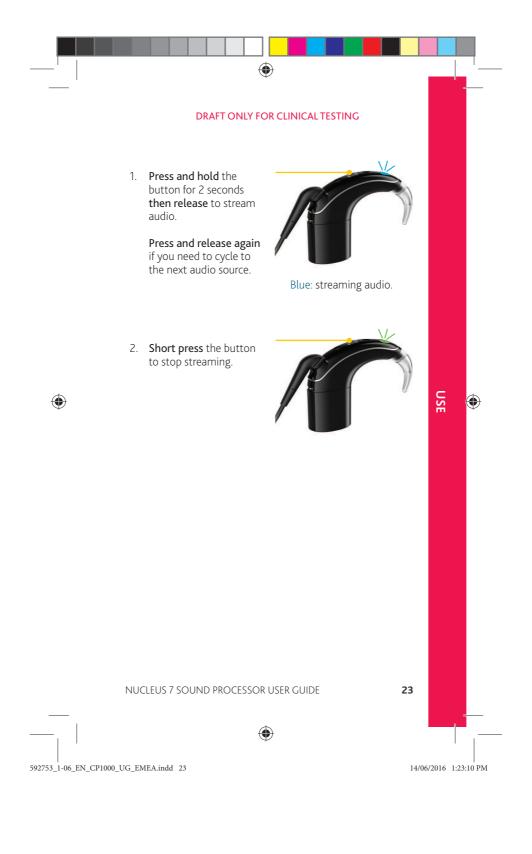
PRESS	STREAMED AUDIO
1	Wireless accessory 1 (e.g. Mini Microphone)
2	Wireless accessory 2 (e.g. TV Streamer)
3	Wireless accessory 3 (e.g. extra Mini Microphone)
4	Wireless accessory 1

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 22







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# 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 accessories are working.



# NOTES

- Only use approved earphones/headphones with the monitor earphone adaptor (ones with a 3- or 4-pin audio jack that fits the adaptor). You CAN use earbuds. You CANNOT use noise-cancelling headphones.
- Don't connect multiple monitor earphone adaptors in series.
- Don't connect the monitor earphone adaptor to other audio outputs, e.g. computer.



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







2. Insert the Cochlear Nucleus 7 Monitor Earphone Adaptor, then twist to connect.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE







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# Wear your processor



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



2. Move the coil sideways and onto your implant.



Processor flashes while coil is off Flash of orange every second (or connected to the wrong implant).

26

# NUCLEUS 7 SOUND PROCESSOR USER GUIDE



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# Change earhooks

The Cochlear Nucleus 7 Earhook comes in small, medium and large sizes.

For extra help wearing your processor securely and safely, see *Retention accessories* on page 29.



### 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.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

28





592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 28

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# Retention accessories

A range of optional Cochlear Nucleus 7 accessories are available to help you wear your sound processor securely and safely.



# 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.

# Nucleus 7 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.



# Nucleus 7 Snugfit

Holds your sound processor more securely in place than an earhook alone

Available in small, medium and large.



# Nucleus 7 Hugfit™

Holds a child's sound processor in place more securely than an earhook alone.

Carers can access controls and accessories.

In three sizes to suit small ears.



NUCLEUS 7 SOUND PROCESSOR USER GUIDE

29



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 29

14/06/2016 1:23:17 PM

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### Nucleus 7 Earmould Adaptor

Allows you to attach a custom earmould to hold your sound processor in place more securely than an earhook alone.



### NOTE

The custom earmould is not supplied by Cochlear.

# Nucleus 7 Koala Clip

Holds your sound processor so you can clip it onto your clothing. Great for chidren.





# NOTE

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



# Nucleus 7 Headworn Adaptor

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



### NOTES

- Headworn comes in right or left side models — your processor needs to face the same way as when you wear it on your ear.
- Headworn works best with a 6, 8 or 11 cm coil cable, a compact rechargeable battery module and a stronger magnet.





NUCLEUS 7 SOUND PROCESSOR USER GUIDE

30

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 30

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14/06/2016 1:23:23 PM

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# Cochlear™ Safety Cord

Clips to clothing so active people are less likely to lose their sound processor.

Available in single or double (for users with two processors).



# Nucleus 7 Headband

Holds your sound processor and coil in place. Great for active adults and children.

Has pockets for left and right side sound processors.



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NUCLEUS 7 SOUND PROCESSOR USER GUIDE



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 31

14/06/2016 1:23:27 PM

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# Wear the Headband

The Cochlear Headband is an optional accessory that holds the processor in place on your implant. This is useful for children or for physical activities.

# Headband sizing

To choose a headband, measure your head circumference:

SIZE	CIRCUMFERENCE	SIZE	CIRCUMFERENCE
XXS	41-47 cm	М	52-58 cm
XS	47-53 cm	L	54-62 cm
S	49-55 cm		



### NOTE

The headband may affect your sound processor's performance. If you notice any change, contact your clinician.



# Fitting the Headband

1. Open the headband and lay it flat, with the processor pockets facing up.



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NUCLEUS 7 SOUND PROCESSOR USER GUIDE







- 2. Insert your processor(s) in the correct pocket(s):
  - the left processor in the left-side pocket, the right processor in the right-side pocket

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• the side of the coil that fits onto your implant is facing up towards you.



3. Push the coil through the slit in the headband.





- 4. Pick up the ends of the headband, and place the anti-slip section against your forehead.
- 5. Join the ends behind your head. Adjust the velcro so the headband fits firmly, with your processor(s) over your implant(s).



6. Press firmly on the ends to make sure they join together.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

33



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 33

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14/06/2016 1:23:33 PM

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# Sport and exercise



### TIP

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



### NOT

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

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



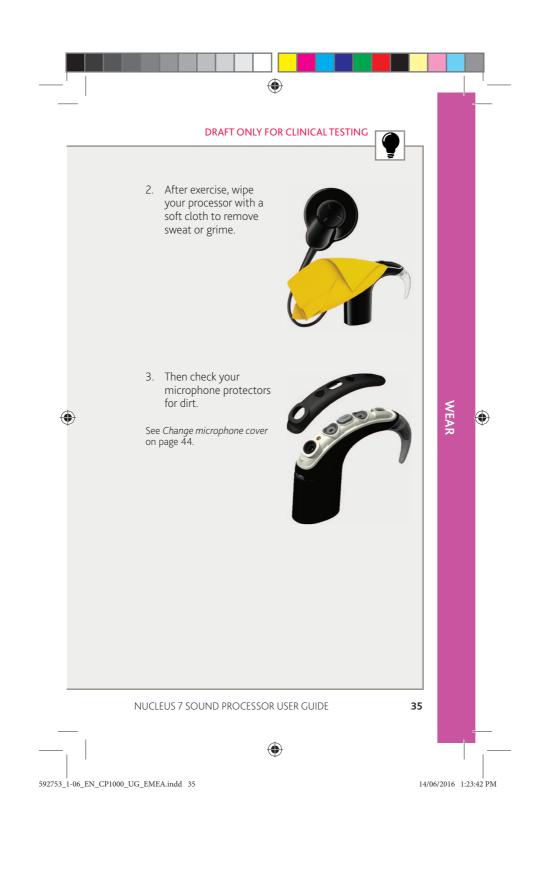




NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:39 PM



#### 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 program in case you need help with your 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.





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# Flight mode



NOTE
In flight mode, you can change programs as normal using the processor button. You can only use telecoil to stream audio, as True Wireless Accessories 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.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 37



37

14/06/2016 1:23:50 PM

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## Regular care



- CAUTIONS

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

### Every day

- Check all parts and any accessories you use (e.g. Snugfit) for dirt or moisture. Wipe the processor, coil, cable, earhook and accessories with a soft dry cloth. (You can leave accessories on the processor while
- Keep your 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
- 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. See Change microphone cover on page 44.

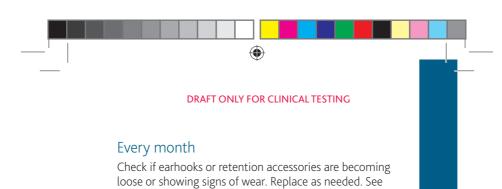






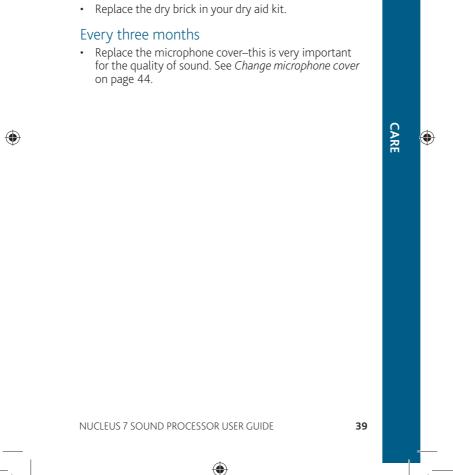






Change earhooks on page 28, or your retention

# accessory's instructions. Every two months



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# 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.
  - 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

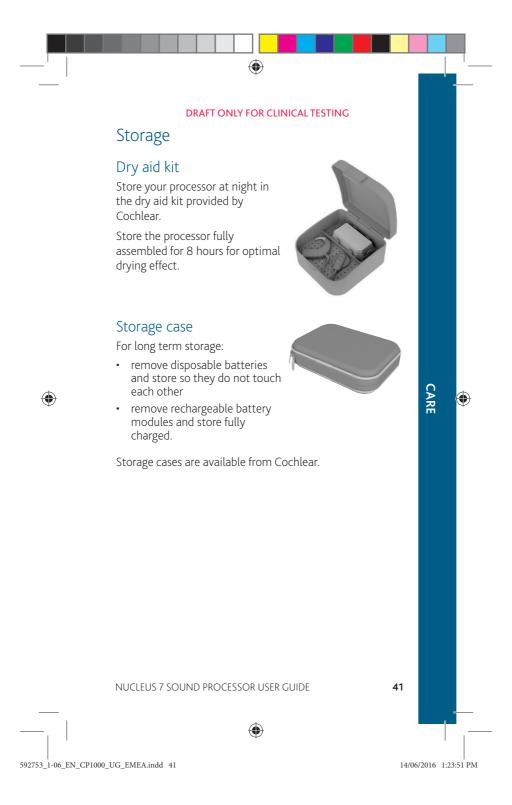
 If the battery charger ever gets splashed with liquid, carefully shake out the liquid and dry the battery charger for 24 hours. Do not use the battery charger until it is dry.







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## Water, sand and dirt

Your 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 processor 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 processor in the dry aid kit provided by Cochlear for 8 hours.

See Batteries on page 4.

See *Change microphone cover* on page 44.





If sand or dirt ever enter the processor, shake the components carefully to remove it.

42

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



14/06/2016 1:23:53 PM

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Your processor 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 coil cable
- no acoustic component.



Your processor is protected against failure from splashing water or access of foreign objects 1.0 mm in diameter or larger (IP44 rated) when you wear it with:

- a disposable battery module
- a coil and coil cable
- an acoustic component worn in the ear.



NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 43

43

14/06/2016 1:23:54 PM

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# 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 Nucleus 7 Microphone Cover, which is completely replaced.



Step 1: Remove old microphone cover



 Hold the coil cable grip and firmly pull it straight out of the processor.
 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 processor.



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

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:55 PM

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 44

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# Step 2: Insert new microphone cover



1. Fit the replacement microphone cover onto the processor.



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



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

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 45



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## Change the coil and cable

The Cochlear Nucleus 7 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 length cable to use some retention accessories (e.g. Headworn).



#### NOTE

Only remove the coil from your sound processor when necessary.

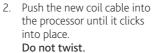


 Hold the coil cable grip and firmly pull it straight out of the processor.
 Do not pull on the flexible part of the coil cable.



#### CAUTION

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





See Processors and parts on page 64.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE





46





14/06/2016 1:23:56 PM

# Change the coil magnet

You need to choose a Cochlear Nucleus 7 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 strength ranges from ½ (weakest) to 6 (strongest).

You might also need to change to a stronger magnet to use some retention accessories (e.g. Headworn).



If your clinician has provided you with a Nucleus 7 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. To use the tamper-proof lock, turn the magnet a little more until you feel a click.



The tamper-proof lock marker aligns with the coil cable when locked.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



14/06/2016 1:23:58 PM

47



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# Lights

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

### Turning on and off

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

### Locking button

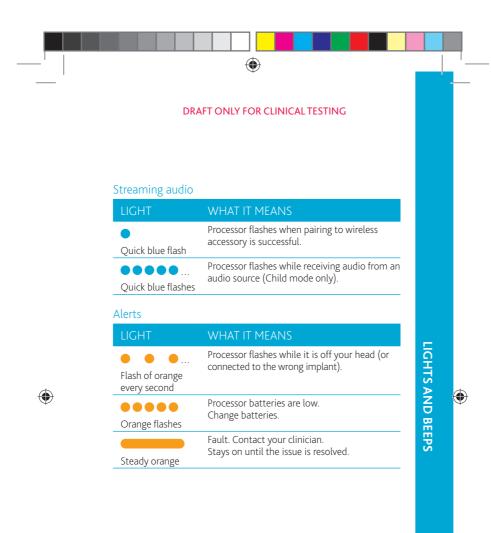
LIGHT	WHAT IT MEANS
• •	Locking processor button.
Green flash followed by orange	
• •	Unlocking processor button.
Orange flash followed by green	
•	Processor button is locked.
Orange flash when pressing button	

NUCLEUS 7 SOUND PROCESSOR USER GUIDE





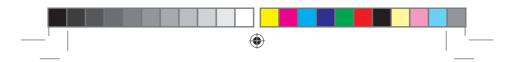




NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 49 14/06/2016 1:23:58 PM



# Battery charging

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LIGHT	WHAT IT MEANS
	Battery module is charging.
	Battery module is fully charged.
	Error. Try a different rechargeable battery module.
	If you are using the Y Battery Charger, try the rechargeable battery module on the other connector on the charger.
Does not light up	Battery module is not properly connected, is over-discharged, or there is no power.
	Check the battery charger is properly connected to a power source.
	Try a different rechargeable battery module





NUCLEUS 7 SOUND PROCESSOR USER GUIDE







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## Beeps

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

### Turning on and off

ВЕЕР	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	Processor button is locked.
Short high then short low beep	Locking processor button.
Short low then short high beep	Unlocking processor button.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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51

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 51

14/06/2016 1:23:58 PM

LIGHTS AND BEEPS

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#### Telecoil

BEEP	What it means
Long high beep	Switching between using the microphones and the telecoil.

#### Wireless accessories

BEEP	WHAT IT MEANS
3-tone chime	Connecting with wireless accessory to begin streaming audio.
	When stopping streaming.
Short beep	

#### Alerts

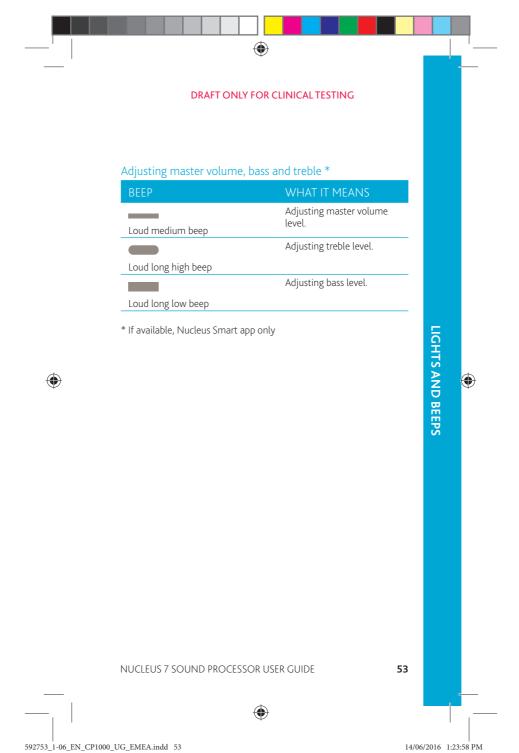
BEEP	WHAT IT MEANS
2 Short low beeps	Processor batteries are low. Change batteries.
Short low beeps for 4 seconds	Batteries are empty and processor is turning off. Change batteries.
4 long low beeps over 4 seconds	General fault. Consult your clinician.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE









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# Troubleshoot

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

PROBLEM	RESC	OLUTION
Processor will not turn on/button will not respond		Try turning the processor on again. See <i>Turn on and off</i> on page 18.
		Fry unlocking the button. See <i>Lock the</i> control button on page 19.
	E	Change the batteries. See Replace the pattery module on page 8 or Change disposable batteries on page 10.
	ć	f you have two implants, check that you are wearing the correct sound processor on each implant.
	ć	Check the battery contacts are free of dirt and dust. See <i>Water, sand and dirt</i> on page 42.
		f the problem continues, contact your clinician.
The processor switches off	9	Ask your clinician if "Auto power off" is enabled. If it is, then the processor will switch off after two minutes when not connected to the implant.
	E	Change the batteries. See Replace the pattery module on page 8 or Change disposable batteries on page 10.
The processor will not turn off		Check the processor is not locked. See .ock the control button on page 19.
	F	Remove the battery module from the brocessing unit. See <i>Remove the battery module</i> on page 8.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE







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NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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#### PROBLEM

#### **RESOLUTION**

# Sound is too loud or uncomfortable

- 1. If you use a Nucleus 7 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. See *Change* program on page 20.
- 4. If you have two sound processors (one for each side), ensure you have them on the correct side.
- If the problem continues, remove the processor and coil from your head immediately and contact your clinician.

# Sound is too quiet 1. or muffled

- . If you use a Nucleus 7 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. See *Change program* on page 20.
- 4. Try changing the microphone protectors. See *Change microphone cover* on page 44.
- 5. If the problem continues, contact your clinician.



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NUCLEUS 7 SOUND PROCESSOR USER GUIDE

56

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 56



14/06/2016 1:23:58 PM

#### **(1)** DRAFT ONLY FOR CLINICAL TESTING Check the light on the top of the You want to processor (if enabled). See Lights on confirm your processor is page 48. receiving sound If you have monitor earphones, a hearing person can listen to the sound received by the processor. See *Use monitor earphones* on page 24. 3. If you use the Nucleus Smart app, use the sound meter to check the processor is receiving sound ????. 4. If the problem continues, contact your Remove the processor and coil from your The processor or coil become hot head immediately and contact your **TROUBLESHOOT** Your coil magnet may be too strong or in You experience contact with your skin. Change to a weaker magnet. See *Change the coil* tightness, discomfort or develop a skin magnet on page 47. irritation at your If you are using a retention aid, such as a implant site headband, this may be placing pressure on your processor. Adjust your retention aid, or try a different aid. If the problem continues, contact your

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



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#### PROBLEM

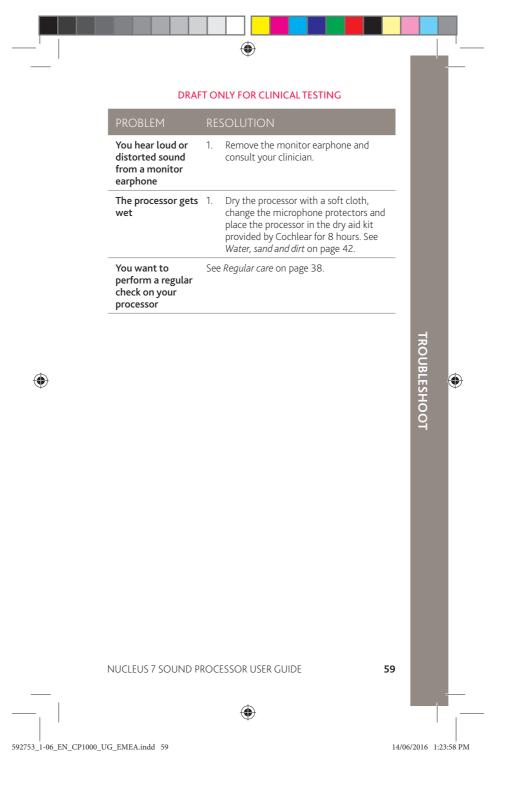
#### **RESOLUTION**

#### You do not hear sound from a wireless accessory

- 1. Check that the wireless accessory is charged and turned on.
- 2. Check that the wireless accessory is paired with your processor.
- 3. Check the volume of the wireless accessory.
- 4. If you use the Nucleus Smart app, use the sound meter to check the processor is receiving sound from the accessory.
- If you use the Nucleus Smart app, check and adjust the accessory/microphone mixing ratio.
- 6. If available, try a different processor.
- 7. For more troubleshooting, see the *True Wireless Accessory User Guide*.

#### You do not hear sound from a monitor earphone

- . Check that the monitor earphone cable is fully inserted into the socket on the processing unit.
- Check that the monitor earphone adaptor is properly connected to the processor and battery module.
- 3. If you use the Nucleus Smart app, use the sound meter to check the processor volume level.
- 4. If available, try a different processor.



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#### PROBLEM

#### DECOLLITION

# 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. Try replacing the coil with a new coil.
- 4. If you are using disposable batteries, check that you are using the recommended batteries. See *Change disposable batteries* on page 10.
- Don't forget to let new disposable batteries stand for a few seconds before you put them in the sound processor.
- 6. If the problem continues, contact your clinician.

The indicator light on the battery charger shows a fully charged battery is still charging

The indicator light on the battery charger shows a This won't cause any damage to the battery as the charge cycle on a fully charged battery is very short.

The indicator light on the battery charger is flashing orange

- Check that only rechargeable battery modules are connected to the battery charger.
- 2. Replace the rechargeable battery module.





NUCLEUS 7 SOUND PROCESSOR USER GUIDE

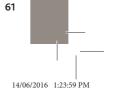
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# Cautions

- Young children who are developing motor skills are at greater risk of an impact to the head from a hard object (e.g. table or chair). Impact to the sound processor may cause damage to the processor 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.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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# Warnings

#### For parents and carers

- Removable parts of the system (e.g. microphone cover, magnets, batteries, battery cover, retention aids) can be lost or may be a choking or strangulation hazard. Keep out of reach of children or lock the tamper-resistant screw on the battery module and/or cover.
- Parents and carers are advised that unsupervised use of long cables (e.g. coil or accessory cables) may present a risk of strangulation.
- Sound processor covers may not be suitable for children.
   Removable parts can be lost or may be a choking hazard.
- Carers must routinely check the device for signs of overheating and for signs of discomfort or skin irritation at the implant site. Remove the processor and coil immediately if there is any discomfort or pain (e.g. if device becomes hot, or sound is uncomfortably loud) and contact your clinician.

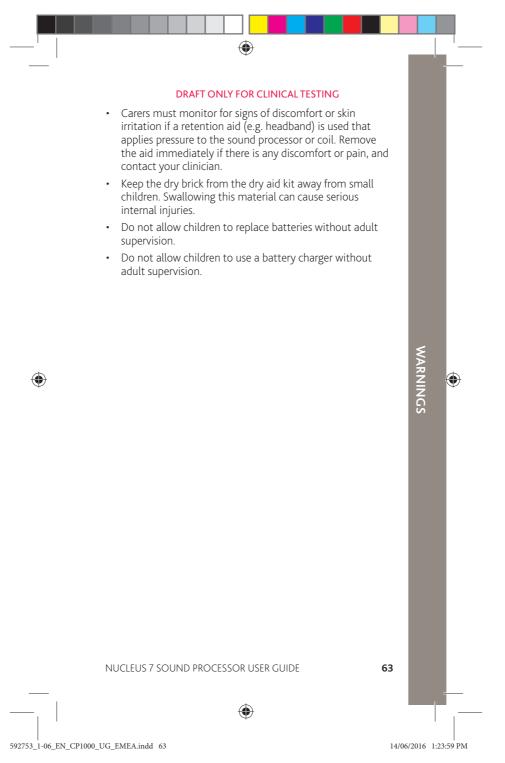




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NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 62



#### Processors and parts

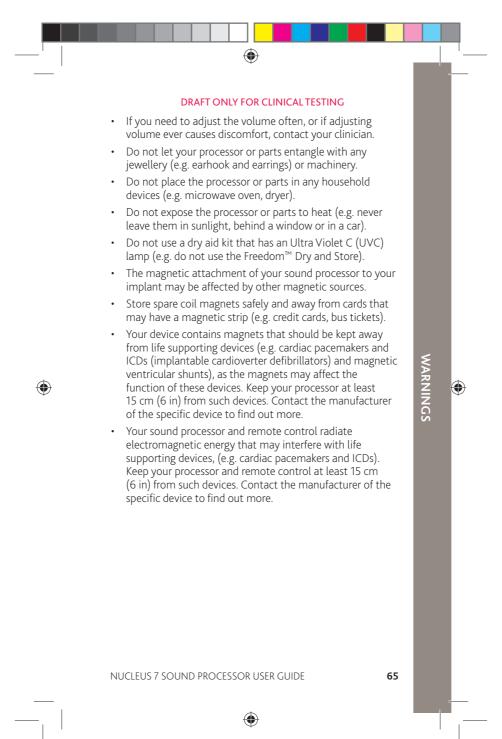
- Each processor is programmed specifically for each implant. Never wear another person's processor or lend yours to another person.
- Use your Cochlear implant system only with approved devices and accessories.
- If you experience a significant change in performance, remove your processor and contact your clinician.
- Your 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 (e.g. 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.









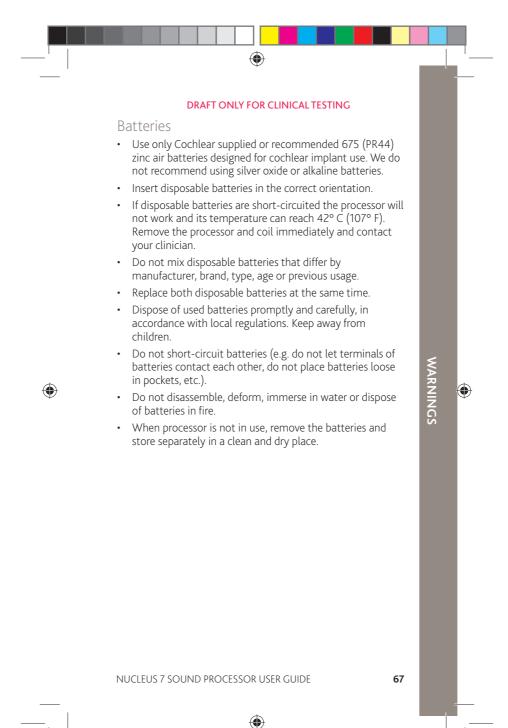


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- Do not place the device or accessories inside any part of your body (e.g. nose, mouth).
- Seek medical advice before entering any environment that may adversely affect the operation of your Cochlear implant, including areas protected by a warning notice preventing entry by patients fitted with a pacemaker.
- Some types of digital mobile telephones (e.g. 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
- 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 (e.g. middle ear infection). When wearing a mask, avoid pressure over the implant site.
- Before activities that create electrostatic discharge
   (e.g. playing on plastic slides), remove your processor. In
   rare cases, discharge of static electricity can damage your
   Cochlear implant's electrical components or corrupt the
   processor's program. If static electricity is present
   (e.g. 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.





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- 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 (e.g. never leave batteries in sunlight, behind a window or in a car).
- Never put batteries in your mouth. If swallowed, 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.





NUCLEUS 7 SOUND PROCESSOR USER GUIDE



68









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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.





NUCLEUS 7 SOUND PROCESSOR USER GUIDE







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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 ( $\frac{1}{2}$ in.) from the electrodes.
lonising 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.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:59 PM

71

WARNINGS

# Other information

#### Physical configuration

The processing unit comprises:

- · Two omni-directional microphones for receiving sound.
- An internal telecoil for receiving magnetic fields radiated by phones, neckloops and roomloops.
- Custom analogue and digital integrated circuits with digital signal processing (DSP) and bidirectional wireless communication capabilities.
- A tri-colour visual indication of 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 processor. The coil acts as a transformer coupling that transfers energy and data to the implant.



NUCLEUS 7 SOUND PROCESSOR USER GUIDE

72



14/06/2016 1:23:59 PM

# 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

DRAFT ONLY FOR CLINICAL TESTING

- styrene (ABS).
- Coil cable sheath is made of polyvinyl chloride (PVC).
- Coil cable plugs are made of PP and TPE.

Materials

• Retention parts are made from polyamide (PA) and liquid silicone rubber (LSR).

#### 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.

OTHER INFORMATION

73

14/06/2016 1:23:59 PM

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#### Operating characteristics

#### Processing unit

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CHARACTERISTIC	value/range		
Sound input frequency range	100 Hz to 8 kHz		
Wireless technology	Proprietary low power bidirectional wireless link		
RF frequency	2.4 GHz		
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 processor on and off, turn audio streaming on and off, change program		
Remote communication range	Up to 2 m		

#### 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

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



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592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 74

Product component dimensions (Typical values)

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ITEM	LENGTH	WIDTH	DEPTH	DIAMETER
Nucleus 7 processing unit with medium earhook and standard 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	17.8 mm	N/A
Standard rechargeable battery module				
	24.8 mm	9.0 mm	17.8 mm	N/A
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	7.8g
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

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:59 PM

75

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 75

OTHER INFORMATION



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#### 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

#### Environmental protection

Your sound processor contains electronic components subject to the Directive 2002/96/EC 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 your sound processor according to your local regulations.

#### Equipment classification

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



NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 76





# OTHER INFORMATION

#### DRAFT ONLY FOR CLINICAL TESTING

#### Disposable batteries

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

#### 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 up to 2 metres from the processor. It indicates via its display when the processor is out of operating distance (or switched off) or when the link is interrupted due to broad spectrum interference (see remote's user guide for more information).
- The True Wireless accessories operate over 16 channels, over a distance of up to 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 Spread Spectrum (FHSS) to combat interference. Operating range is up to 7 metres, and the app indicates when the processor is out of operating distance (or switched off) or when the link is interrupted due to broad spectrum interference.

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:59 PM

#### 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 Nuclues 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:



# FCC (Federal Communications Commission) and Canadian IC compliance



This device complies with part 15 of the FCC Rules and with RSS-210 of Industry 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.



NUCLEUS 7 SOUND PROCESSOR USER GUIDE

78

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 78



14/06/2016 1:23:59 PM

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 ID: 8039A-CP1000 CAN ICES-3 (B)/NMB-3(B)

NUCLEUS 7 SOUND PROCESSOR USER GUIDE

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14/06/2016 1:23:59 PM

79

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#### Radio compliance for Japan

This device is granted pursuant to the Japanese Radio Law (電波法) and its relevant law.

This device should not be modified (otherwise the granted designation number will become invalid).



#### Radio compliance for Korea



- 1. Equipment name/model name:
- 특정소출력 무선기기(무선데이터통신시스템용 무선기기) / CP1000
- Registration number: MSIP-CRM-COH-CP1000
   Company name: Cochlear Limited
   Manufactured date: 2016

- 5. Manufacturer/Country of Origin:
- Cochlear Limited/Australia



#### WARNING

This radio equipment has the possibility of radio interference during operation.



This equipment is suitable for electromagnetic equipment for home (Class B) and it can be used in all areas.



80

#### NUCLEUS 7 SOUND PROCESSOR USER GUIDE





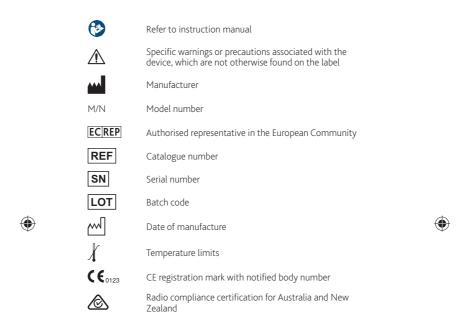
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#### Labelling symbols

The following symbols may appear on your processor or remote components and/or packaging:

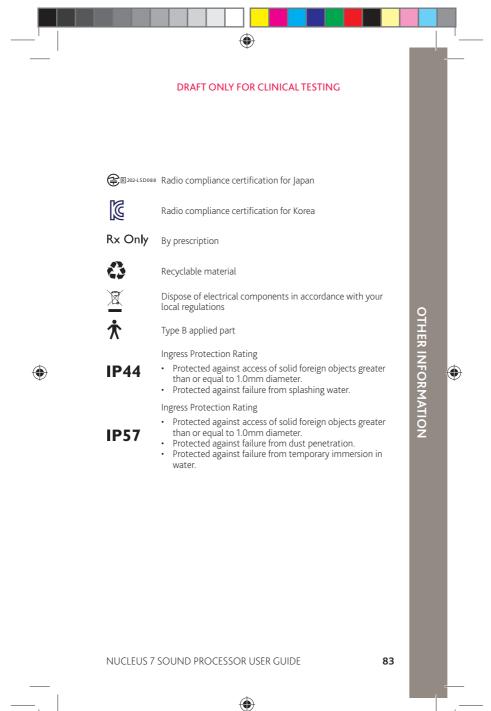


NUCLEUS 7 SOUND PROCESSOR USER GUIDE

592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 82







14/06/2016 1:24:02 PM



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# Privacy and the collection of personal information

During the process of receiving a Cochlear device, personal information about the user/recipient or their parent, guardian, carer and hearing health professional will be collected for use by Cochlear and others involved in care with regard to the device.

For more information please read Cochlear's Privacy Policy on www.cochlear.com or request a copy from Cochlear at the address nearest you.

#### Legal statement

The statements made in this guide are believed to be true and correct as of the date of publication. However, specifications are subject to change without notice.

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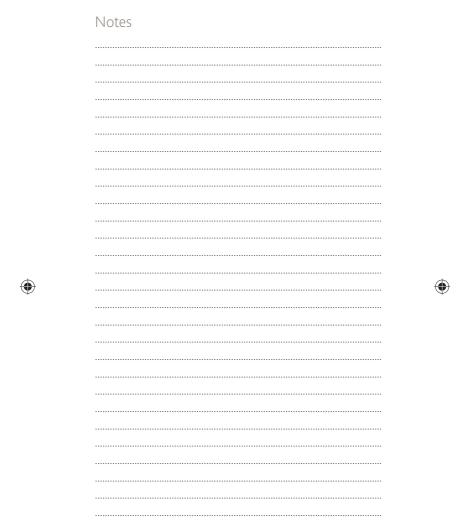


84

NUCLEUS 7 SOUND PROCESSOR USER GUIDE



14/06/2016 1:24:02 PM



592753\_1-06\_EN\_CP1000\_UG\_EMEA.indd 85



14/06/2016 1:24:02 PM

### Hear now. And always

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