

Cochlear™ Nucleus® 8 Sound Processor (CP1110)

Nucleus® 8 Sound Processor components

- 1 Cochlear magnet
- 2 Nucleus 8 Slimline™ coil (includes cable)
- 3 Microphone cover
- 4 Tamper-resistant lock
- 5 Battery module
- 6 Microphones
- 7 Indicator light
- 8 Control button
- 9 Processing unit
- 10 Earhook
- 11 Serial number



Color options



Black



Grey



Brown



Sand



White



Silver

Works with
android

Made for
iPhone | iPad | iPod

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Technical specifications

Model number	CP1110 (Nucleus 8 Processing Unit only)		
Wireless frequency	2.4GHz ISM band		
Wireless communication range	Remote control: At least 2 m	Smartphone control: At least 2 m	Smartphone streaming: At least 7 m
Coil operating frequency	5.0 MHz		
Operating voltage	2.0 V–4.25 V (processing unit) 2.0 V–2.6 V (coil)		
Power consumption	20 mW–100 mW		
Button functions	Turn processor on and off, turn audio streaming on and off, change program		
Capacity/voltage range	Compact Battery Module 91 mAh/3.7 V Power Compact Battery Module 142mAh/3.7 V Power Extend Battery Module 183 mAh/3.7 V Disposable battery module 2 PR44 (zinc air) batteries 1.45 V (nominal each)*		
Power options**	Compact Battery Module (typical expected battery life: 10 hours) Power Compact Battery Module (typical expected battery life: 15 hours) Power Extend Battery Module (typical expected battery life: 20 hours) Two high power PR44 zinc-air disposable batteries (typical expected battery life: 35 hours)		

Device dimensions		Length	Width	Depth	Weight	Diameter
	CP1110 with medium earhook with Compact Battery Module	34.5 mm	8.9 mm	41.3 mm	6.9 g	N/A
	CP1110 with medium earhook with Power Compact Battery Module	39.4 mm	8.9 mm	41.3 mm	8.3 g	N/A
	CP1110 with medium earhook with Power Extend Battery Module	43.4mm	8.9 mm	41.3 mm	9.4 g	N/A
	CP1110 with medium earhook with disposable batteries (including two 675 zinc air)	47.5 mm	8.9 mm	41.3 mm	9.9 g	N/A
	Compact Battery Module	15.9 mm	8.9 mm	17.6 mm		N/A
	Power Compact Battery Module	20.8 mm	8.9 mm	17.6 mm		N/A
	Power Extend Battery Module	24.8 mm	8.9 mm	17.6 mm		N/A
	Disposable battery module	28.9 mm	8.9 mm	17.3 mm		N/A
	Coil and cable (without coil magnet)			6.4 mm	3.9 g	30.7 mm

Key features

- Our smallest and lightest behind-the-ear sound processor¹
- SmartSound® iQ 2 with SCAN 2[†]
- ForwardFocus^{††} (if enabled by a Clinician)
- Dual microphones
- Available in six color options
- IP rating for water and dust resistance:[^]
 - IP68 with rechargeable battery
 - IP54 with disposable batteries or with Hybrid™ Hearing option
 - Swimmable with Aqua+ (sleeve with coil)
- Six magnet strengths available with Profile™ Plus, seven available for prior implant generations
- LED status monitoring
- Hybrid mode: Three receiver sizes available (CP1000 Speaker Unit 100, 85 and 60) – instant fit with disposable dome or customized earmold

Implant compatibility

- Compatible with Nucleus 24 Series, CI24RE Series, CI500 Series, Profile Series and Profile Plus Series

Connectivity

- Compatible with the Nucleus Smart App^{^^}
- Compatible with Cochlear Nucleus CR310 Remote Control
- Direct streaming from compatible Apple and Android devices⁺
- Ready for Bluetooth® LE Audio - firmware update required^{*}
- Streaming from other Bluetooth® Classic-enabled devices via the Cochlear Wireless Phone Clip
- Compatible with Cochlear True Wireless™ devices
- Telecoil optimized for room loop

FM compatibility

- Compatible with the Phonak Roger 20 receiver
- The three-pin Euro receiver is compatible with the Mini Microphone 2+, which can be used in conjunction with the Nucleus 8 Sound Processor

Accessories

- Retention accessories: tamper resistant earhook, Snugfit (3 sizes), Hugfit™ (5 sizes), Earmold Adapter, Headworn Adapter, Safety Cord, Koala Clip and Nucleus 7 Pediatric Headband
- Monitor Earphone Adapter

Programming

- Compatible with Custom Sound® 7.0 or higher and Custom Sound Pro
- Programming with the Wireless Programming Pod or with the Wired Programming Pod and Programming Cable

1. Cochlear Limited. D1190805. Processor Size Comparison. 2023, Apr.
2. Cochlear Limited D1980144 CP1110 IEC60529 IP68 Certificate & Test Report.
* Cochlear recommends 675 zinc air batteries designed for cochlear implant use.

** Typical expected battery life is calculated using default map settings used with a CI600 Series or CI500 Series implant. Battery life varies for every user, according to the age of the battery, the programs used each day, implant type, the thickness of skin covering the implant, and the size and type of battery used. Streaming from compatible devices, True Wireless devices or FM may decrease sound processor battery life depending on how often and for how long streaming is engaged.
[†] It is recommended that SNR-NR, WNR and SCAN be made available to any recipient, ages 6 and older, who is able to 1) complete objective speech perception testing in quiet and noise in order to demonstrate and document performance and 2) report a preference for different program settings.
^{††} ForwardFocus can only be enabled by a hearing implant specialist. It should only be activated for users 12 years and older who are able to reliably provide feedback on sound quality and understand how to use the feature when moving to different or changing environments. It may be possible to have decreased speech understanding when using ForwardFocus in a quiet environment.
[^] The Cochlear Nucleus 8 Sound Processors with the rechargeable battery module meet the IP68 rating of the International Standard IEC60529 of freshwater waterproof. These processor configurations were tested by continuous submersion in freshwater for 60 minutes at a depth of 1 meter and functioned as intended. Cochlear offers the Aqua+ accessory for additional protection during extended water use, in salty or rushing water environments. For additional information, please refer to the appropriate user guide.²
^{^^} The Cochlear Nucleus Smart App is available on App Store and Google Play.
⁺ The Cochlear Nucleus 8 Sound Processor is compatible with Apple and Android devices. For compatibility information visit www.cochlear.com/compatibility.
[¥] When this technology becomes available a firmware update to your sound processor will allow you to connect to Bluetooth LE Audio compatible devices.
Please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always read the instructions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.
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