

# Cochlear™ Wireless Mini Microphone 2+



**The Cochlear™ Wireless Mini Microphone 2+ transmits speech and audio directly to sound processors from a range of up to 25 metres (clear line of sight).**

#### Features:

- Table microphone functionality
- Telecoil functionality
- FM functionality (Europin FM receiver required)
- Plug-and-play line-in mini-jack connector
- 25 metres range at clear line of sight

The Mini Microphone 2+ optimises signal-to-noise ratio in one-to-one communication. It sends the speaker's voice directly to the patients' sound processors without the need for any extra devices. The Mini Microphone 2+ is reliable and improves speech understanding in difficult listening situations where distance, background noise or poor acoustics are an issue. Since the listener is not required to look directly at the speaker during a conversation, he or she is free to perform dual attention tasks that normal hearing people take for granted.

In essence the microphone extends the hearing range well beyond the reach of any sound processor in a variety of situations, such as when having conversations at home, in the car and while dining out.

The microphone also functions as a portable audio streaming device. Via the line-in input, your patient can connect to virtually any audio source, e.g. music player, PC, phone, or even TV to stream audio directly to the sound processors. It is ideal for situations such as:

- listening to a music player while exercising
- using other communication tools such as Skype and Facetime
- while traveling
- in place of worship
- in school, at a lecture

#### Easy to connect

- Just press the pairing button on the Mini Microphone 2+ and turn on the sound processor within 20 seconds and it automatically pairs with the sound processor.
- Pairing with a Baha Sound Processor can also be done through the Cochlear Baha Fitting Software.
- Once paired the microphone will stay paired with the sound processor.

#### Easy to use

- Simply turn the microphone on and switch the sound processor into streaming mode.
- Easy to recharge using the included charger.
- Battery life:
  - Microphone mode: Typically 11 hours
  - Line-in mode: Typically 11 hours
  - FM mode: Typically 10 hours
  - Telecoil mode: Typically 7 hours
- When worn vertically (clipped on or worn on lanyard) the microphone automatically switches into directional mode and minimises background noise.
- When placed horizontally on e.g. a table the microphone automatically switches into omni-directional mode picking up the voices of multiple speakers.
- Plug-and-play line-in and FM functionality.
- Volume control buttons for easy adjustment (incl. volume control lock) and mute button.
- Drop detector – mutes transmitted signal momentarily when dropped from heights above 75 cm (~30 inches).

#### Volume setting range

The Mini Microphone has a total volume range from -24 dB to +12 dB in 3 dB increments (12 incremental steps total). The default setting is 0 dB, meaning the sound signal is transmitted to the processors without any additional amplification.

#### 2.4 GHz wireless technology

- A smart, robust and reliable standard that has a strong, clear and stable signal.
- No need to wear an intermediary device, as the signal is transmitted directly to the sound processor.

## Description

Article numbers:

- P770845 Cochlear Wireless Mini Microphone 2+ GB
- P770846 Cochlear Wireless Mini Microphone 2+ EU
- P770847 Cochlear Wireless Mini Microphone 2+ AUS
- P770848 Cochlear Wireless Mini Microphone 2+ US

1. ON/OFF button
2. Microphones
3. Status indicator light (LED)
4. FM connector
5. Mode selector button
6. Pairing button
7. Mounting clip
8. Mode and battery indicator lights (LED)
9. Line-in connector
10. Volume down
11. Mute button
12. Volume up
13. Micro USB for charging
14. Mute indicator light (LED)

NOTE: Images are not to scale.



## Technical information

Dimensions	L 61 x H 28.5 x W 22 mm / L 2.4 x H 1.1 x W 0.87"
Weight	22 grams / 0.78 oz
Power supply	Built-in rechargeable battery
Battery life (fully charged)	Microphone & Line-in mode: Typical 11 hours FM mode: Typical 10 hours Telecoil mode: Typical 7 hours
Power connection	Micro USB
Charging time	Max 3 hours, depending on initial state of the battery
Wireless connections	Multiple sound processors per Mini Microphone. Up to 3 streaming devices (combination of Mini Microphones and TV Streamers) per binaural set of sound processors.
Streaming range	Up to 25 metres / 82 feet (Clear line of sight)
Streaming	20 ms
Audio interface	Dual microphone voice pick-up
Audio Frequency range	100-8000 Hz $\pm$ 3dB (Tele-coil: 350-8000Hz)
Microphone acoustic sensitivity	Equal to sound processor $\pm$ 3dB
Table microphone mode (horizontal position)	Omnidirectional microphone mode with active noise reduction
Clip (Mini Microphone in vertical position)	Noise suppression microphone mode with directional focus towards speakers mouth
Microphone limiter	Acoustic inputs above 85 dB SPL are limited to avoid unpleasantly loud outputs
Telecoil sensitivity	100 mA/m is equivalent to 70 dB SPL acoustic input
Line-in sensitivity	18 mV is equivalent to 70 dB SPL acoustic input
DAI/FM (Euro plug) sensitivity	4 mV is equivalent to 70 dB SPL acoustic input
Max line-in level	500 mVrms (Rin = 3.9k $\Omega$ )
Max DAI/FM level	70 mVrms (Rin = 250k $\Omega$ )
ESD tolerance	According to IEC 61000-4-2 Electro-static discharge immunity test standard. 6kV Contact discharge method / 8kV Air discharge method (TBV)
Wireless frequency	2.4 GHz
Emission	-4 dBm
Hearing Instrument Wireless Interface Compliance	EN300 328, ETSI EN 300 440-1 FCC CFR 47 Part 15, Subpart C, § 15.247
Operating & charging temperature	0 to 45 °C / 32 to 113 °F May also be used in environments below 0 °C with reduced battery lifetime
Storage temperature	-20 to 45 °C / -4 to 113 °F

All data is subject to change.  
Read instructions for use.

*Cochlear Wireless Accessories are compatible with select Cochlear sound processors.*

*See [www.cochlear.com](http://www.cochlear.com) for full compatibility details.*

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[www.cochlear.com](http://www.cochlear.com)

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*Hear now. And always*

