

DATASHEET



Cochlear™ Baha® 4 Sound Processor



The Cochlear™ Baha® 4 Sound Processor is a wireless-enabled, fully-programmable sound processor developed exclusively to meet the needs of patients with conductive loss, mixed loss and single-sided sensorineural deafness (SSD).

Powered by the Ardiun™ platform and the Baha PureSound™ iQ signal processing technology the Baha 4 Sound Processor helps ensure your patients will benefit from the best signal across a variety of sound environments. The Baha 4 Sound Processor is based on Baha bone conduction technology and designed to work with the Cochlear Baha implant and the Cochlear Baha Softband.

Features

- Fully programmable, wireless enabled, premium head-worn sound processor
- 17 channel sound analysis
- 4 user-defined programs
- Scene Classifier
- 2.4 GHz Wireless
- Wide-band Dynamic Range Compression with Natural Sound Resolution
- Active Balanced Directionality
- Automatic Noise Management II
- Dual Track Feedback Manager
- Dedicated fitting rationales for mixed loss, conductive loss and SSD
- Dedicated listening programs for music, outdoor and noisy environments
- Direct Audio Input with Europin connector
- Patient optimized fitting with Baha Fitting Software (4.0 or later)
- Wireless fitting with Airlink™

Available Accessories

Cochlear Baha Remote Control
Article no. 94765

Cochlear Wireless Mini Microphone
Article no. 94781

Cochlear Wireless Phone Clip
Article no. 94771

Cochlear Baha Audio adapter
Article no. 91180 (Short Cable),
91868 (Long Cable)

Cochlear Baha Telecoil unit
Article no. 91181

FM-Receiver

The Baha 4 Sound Processor is designed to accommodate FM receivers with signal source output compatible with IEC 60118-6 and with Europin connector according to IEC 60118-12.

Ordering Information

The Cochlear Baha 4 Sound Processor is delivered in a kit that includes the processor with an extra battery door, an abutment cover, batteries, a cleaning brush, a safety line and a User Manual. The Baha 4 Sound Processor also comes with a small test rod that allows wearers to 'share their Baha experience' with friends and family.

Baha 4 Sound Processor

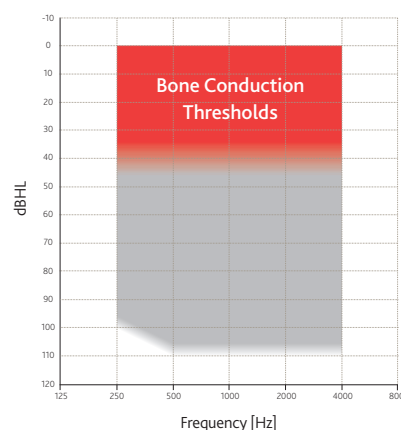
	Article no.
Baha 4 Sound Processor Champagne Blonde	93630
Baha 4 Sound Processor Soft Black	93631
Baha 4 Sound Processor Slate Grey	93632
Baha 4 Sound Processor Chestnut Brown	93633
Baha 4 Sound Processor Ocean Blue	93634
Baha 4 Sound Processor Demo	94230
Baha 4 Sound Processor Dummy (non-functional)	91320

Baha 4 Sound Processor Battery Doors

	Article no. Standard	Article no. Tamper-proof
Champagne Blonde	92079	92077
Soft Black	92084	92078
Slate Grey	92083	
Chestnut Brown	92082	
Glacier White	92081	
Piano Black	92080	
Sky Blue		92571
Peony Pink		92570
Ruby Red	92572	
Iris Purple	92574	
Ocean Blue	92573	
Apple Green	92575	

Extra battery doors are delivered in a pack of two and include a sheet of stickers for customization.

Fitting Range

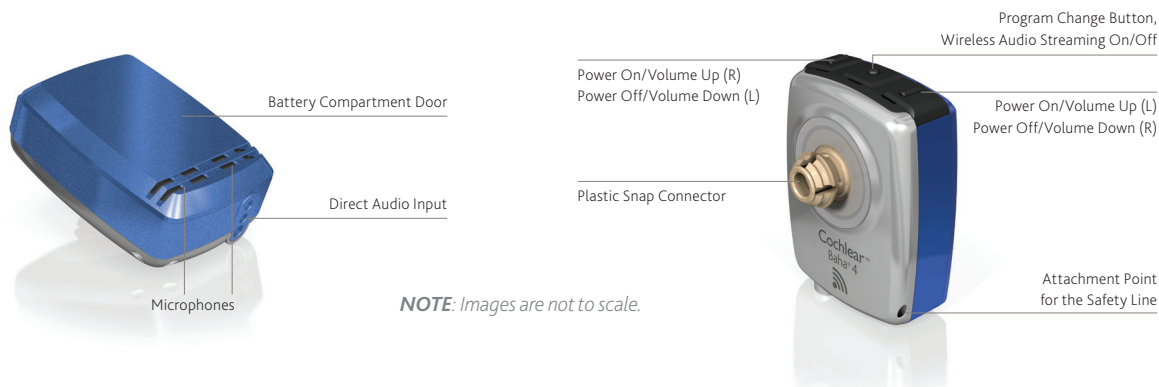


Bone-conduction thresholds ≤ 45 dB HL averaged across 500, 1000, 2000, and 3000 Hz

Air-conduction thresholds may extend into this area

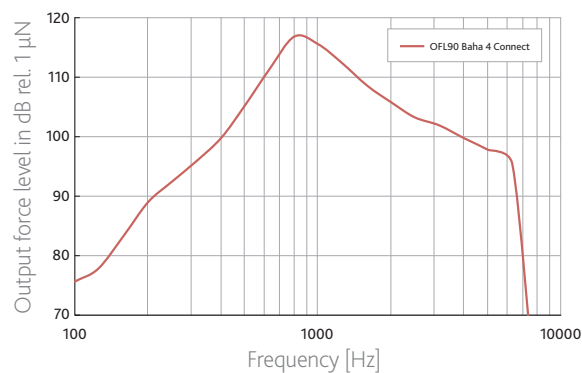
The Baha 4 Sound Processor is suitable for individuals with bone conduction thresholds within the red area indicated in the graph. For further details, see the Cochlear Baha 4 Candidate Selection Quick Guide.



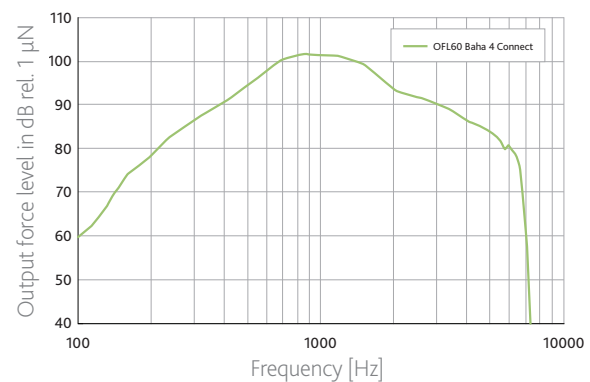


Measured on Skull Simulator TU1000

Maximum Output Force Level



Full-on Gain



Technical Information (Measurements at Full Gain)

Frequency Range	250-6700 Hz (ANSI 3.22)
Peak OFL at 90 dB SPL	117 dB (rel 1 μN)
Peak OFL at 60 dB SPL	101 dB (rel 1 μN)
Acoustic Mechanical Gain (at 60 dB SPL, 1600 Hz)	38 dB (rel 1 μN /20 μPa)
Total Harmonic Distortion (at 60 dB SPL, reference test gain acc. IEC 60118-9)	Below 3% above 600 Hz
Weight (excluding battery)	11.6g
Size	30 x 21 x 12 mm
Battery Voltage	1.1-1.5 V
Battery Type	13 (PR48, Zinc-Air)
Current Consumption	1.2 mA (in silence), 1.5 mA (at 60 dB SPL, 1600 Hz)
Equivalent Input Noise Level	26 dB SPL
Electrical Input (equivalent to an acoustic input of 70 dB SPL)	1.8 mV _{RMS} 1600 Hz
Input Impedance	> 10 kΩ
Processing Delay	4.5 ms

Not everyone with hearing loss is a candidate for a Baha. All surgical procedures include an element of risk, and it is impossible to guarantee success. For complete information regarding the risks and benefits of a Baha procedure, please refer to the Instructions for use for the Baha implant available at www.Cochlear.com/US/BahaIndications

www.Cochlear.com/US

Cochlear Americas
13059 East Peakview Avenue
Centennial, CO 80111 USA
Telephone: 1 303 790 9010
Support: 1 800 483 3123

Cochlear Canada Inc.
2500-120 Adelaide Street West
Toronto, ON M5H 1T1 Canada
Telephone: 1 416 972 5082
Fax: 1 416 972 5083



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