Baha® 6 Max Baha® 5 Baha® 5 Baha® 5 Power Baha® 4 Baha® 4 Sound Processor Sound Processor Sound Processor Why it matters
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Sound processor details					
Size (Length × Width × Thickness)	26 × 19 × 12 mm	26 × 19 × 12 mm	36 × 22 × 13 mm	30 × 21 × 12 mm	The Baha 6 Max has the same small housing as Baha 5, with a higher fitting range
Height from abutment	13 mm	15 mm	15.5 mm		The Baha 6 Max is more discreet with 2 mm lower protrusion than Baha 5 and 2.4
Weight	11.5 g	9.8 g	17 g	11.6 g	The Baha 6 Max is lighter than Baha 5 Power, which means it's comfortable to we
Fitting range	Up to 55 dB SNHL	Up to 45 dB SNHL	Up to 55 dB SNHL	Up to 45 dB SNHL	You don't have to compromise between size and performance to experience a lit and most discreet bone conduction sound processor.
Average Maximum Power Output	113 dB	106 dB	114 dB		Research suggests that speech understanding in noise improves with higher max than Baha 5 and similar MPO as Baha 5 Power. ^{4, 5, 6}
Frequency range	200–9700 Hz	250–7000 Hz	250–7000 Hz	250–6700 Hz	Research suggests that a device with higher frequency range can improve recog sounds are found in the higher frequencies like birds chirping, a whistle or flute a Baha 5, Baha 5 Power and Baha 4. ^{4,5,6}
Visual indicator (LED)	•		•		Baha 6 Max has an LED indicator light, which helps parents and caretakers see w
Dust and water resistance	IP68	IP63	IP63		The Baha 6 Max has higher water and dust protection compared to our earlier so about getting caught in the rain! This excludes the battery compartment itself."
Battery life	Typically 44–132 hours	Typically 36–84 hours	Typically 80–160 hours		At similar settings, the Baha 6 Max delivers longer battery life compared to Baha
Taskaska a					

Technology & connectivity

rechnology & connectivity					
Transducer technology	BCDrive [™] II	BCDrive™	BCDrive™	Conventional	The transducers in Baha 6 Max, Baha 5 and Baha 5 Power are symmetric electroma higher reliability ¹⁰ and better efficiency ¹¹ compared to a conventional asymmetrical The BCDrive [™] transducer, introduced in 2015 for Baha 5, doubled the efficiency co us to decrease the size of the sound processor. Now, the BCDrive II transducer in the to keep the size small and battery consumption low while delivering significantly hi
Processing platform & resolution	Xidium [™] 32 MIPS 24 bit resolution	Ardium [™] Smart 16 MIPS 16 bit resolution	Ardium [™] Smart 16 MIPS 16 bit resolution	Ardium™	The Baha 6 Max includes a brand-new chip and processing platform called the Xid to previous generation sound processors, like increased frequency range, direct st sound environment 300 times per second. Processing power and resolution are two factors that determine the quality of the a
					Baha 6 Max is designed to give you access to more clear, rich and natural sound. We've enhanced our SmartSound® iQ technology, which is designed to deliver a cl
SmartSound® iQ scene classifier & noise reduction	300 scans per second	200 scans per second	200 scans per second		situation. [§] The Baha 6 Max scans the environment more often than our earlier soun and help reduce things like wind noise and help with directionality and bilateral directionality
					The feedback manager in Baha 6 Max is improved compared to Baha 5 and Baha 5 to Baha 5 and Baha 5 Power, giving you access to clear sound with less interruption impulse noise reduction feature helps make sharp, loud sounds less uncomfortable
Direct streaming to Android [™] phones	•				Baha 6 Max is the first bone conduction sound processor to have direct streaming fo
					For compatibility information, visit www.cochlear.com/compatibility.
Direct streaming to Apple® devices	•	•	•		You can stay connected with the things that are important to you all from your com For compatibility information, visit www.cochlear.com/compatibility.
Smart App	NEW Baha Smart App for iOS and Android	Baha 5 Smart App for iOS and Android	Baha 5 Smart App for iOS and Android	Baha Control App (no longer available)	The new Baha Smart App lets you change programs, adjust volume, personalize yo and gives you access to more advanced sound adjustments compared to the Baha
FM connectivity	•	•	•	•	Using the Mini Microphone 2+ provides recipients access to FM connectivity in pu
Future-ready for Bluetooth [®] LE	•				As new technologies are always being developed, new connectivity features to hel generation Bluetooth audio protocol which will open new possibilities to hear and o broadcast audio feature which allows streaming to unlimited devices so you can do or tune in to the sound at the cinema, a theater, your church or a conference room.
					We built the Baha 6 Max to be future-ready so you'll be ready to take advantage of

References:

- 1. Bergs T. Technical Report: Performance comparison A1 vs A2 actuators. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1770991.
- 2. Land J. Comparison tech data Baha 6 Max, legacy and competition. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1762475.
- 3. Van Eeckhoutte M, Folkeard P, Glista D, Scollie S. Speech recognition, loudness, and preference with extended bandwidth hearing aids for adult hearing aid users. Int J Audiol. 2020;20:1-12.
- 4. Leung B. Baha 6 Max Connect Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1760797.
- 5. Land J. Baha 5 Sound Processor Connect System Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2019; 630908.
- 6. Land J. Baha 5 Power Connect Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2019; D801286.
- 7. Davidsson B. Technical Report: Battery autonomy in Baha 6 Max vs Baha 5. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1770958.
- 8. Cochlear. Baha 5 Power Connect Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2019; D801286.
- 9. Bergs T. BCDrive reliability vs. conv. bone conduction transducer. Cochlear Bone Anchored Solutions AB, Sweden. 2016; D844105.
- 10. Flynn MC. Smart and Small innovative technologies behind the Cochlear Baha 5 Sound Processor. Cochlear Bone Anchored Solutions AB, Sweden. 2015; 629761.
- 11. Bergs T. Technical Report: Performance comparison A1 vs A2 actuators. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1770991.

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* MPO Measured over 0.5, 1, 2 & 4 kHz

- for more information. Tested by the RISE Research Institutes of Sweden AB.
- ‡ Battery life is dependent on streaming, sound environments and gain setting.
- § The Scene Classifier in SmartSound iQ measures the input sound level and signal-to-noise ratio to define and categorize the patient's acoustic environment. Cochlear Sound Processors are compatible with Apple and Android devices. Cochlear Smart Apps are available on App Store and Google Play. For compatibility information visit www.cochlear.com/compatibility. The Cochlear Baha 6 Max Sound Processor is compatible with Bluetooth LE Audio. For more information on Bluetooth LE Audio, visit www.bluetooth.com. The Bluetooth® word mark and logos are registered
- trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cochlear is under license Android is a trademark of Google LLC. Apple, iPhone, iPad Pro, iPad Air, iPad mini, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- Additional data derived from the following:
- Cochlear. Baha 6 Max Connect Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2020; D1760797. Cochlear. Baha 5 Sound Processor Connect System Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2019; 630908. Cochlear, Baha 5 Power Connect Datasheet, Cochlear Bone Anchored Solutions AB, Sweden, 2019; D801286. Cochlear. Baha 4 Sound Processor Datasheet. Cochlear Bone Anchored Solutions AB, Sweden. 2013; E82790

Cochlear[®]

nge and more power.¹

2.5 mm lower than Baha 5 Power.²

wear.

life rich in sound with Baha 6 Max. We've packed more power' into our smallest

naximum power output (MPO)³ and Baha 6 Max has 7 dB higher MPO*

ognition of high-frequency consonants in quiet and in noise.³ Many important e and the consonants F, S, or K. Baha 6 Max has higher frequency range than

when the processor is on and connected.

sound processors so you can enjoy life's everyday adventures and never worry

ha 5.7 Baha 5 Power is larger in size and typically delivers longer battery life.84

magnetic transducers. This means the transducer has less distortion⁹, cal transducer design found in Baha 4.

compared to earlier conventional transducers like the one in Baha 4 and allowed n the Baha 6 Max is up to twice as efficient as BCDrive, so we've been able higher power output.^{1, 7}

Kidium[™] platform. This gives Baha 6 Max additional capabilities compared streaming to both Apple and Android devices and the ability to scan your

e audio you hear, and the Xidium platform has enhanced both. This means

clear signal to give you the best possible speech understanding even in a noisy und processors to define the nature, position and characteristics of the sound directionality.

a 5 Power. With Baha 6 Max we've improved our feedback manager compared ion from unwanted noises like squeaks and squeals. Plus, the completely new

for compatible Android devices helping you stay connected to the things you love.

ompatible Apple device.

your hearing experience, and locate a missing sound processor ha 5 Smart App.

public spaces and classrooms.

help with hearing loss are just around the corner. Bluetooth LE is the next d connect. You'll be able to experience better sound quality and the new do things like connect to a compatible audio source like a TV in a public space,

of this new technology when it comes.

⁺ The Cochlear Baha 6 Max Sound Processor, with battery compartment excluded, is dust and water resistant to level IP68 of the International Standard IEC60529. Refer to the relevant user guide