## Baha® 6 Max Sound Processor Comparison Chart

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### Sound processor details

#### Size (Length x Width x Thickness)
- Baha® 6 Max: 26 x 12 x 12 mm
- Baha® 5 Power: 26 x 12 x 12 mm
- Baha® 5: 36 x 22 x 13 mm
- Baha® 4: 30 x 21 x 12 mm

The Baha® 6 Max has the same small housing as Baha® 5, with a higher fitting range and more power.

#### Height from abutment
- Baha® 6 Max: 13 mm
- Baha® 5 Power: 15 mm
- Baha® 5: 15.5 mm
- Baha® 4: 17.6 mm

The Baha® 6 Max is 2 mm lower than Baha® 5 and 2.5 mm lower than Baha® 5 Power.

#### Weight
- Baha® 6 Max: 11.5 g
- Baha® 5 Power: 9.8 g
- Baha® 5: 17 g
- Baha® 4: 11.6 g

The Baha® 6 Max is lighter than Baha® 5 Power, which means it’s comfortable to wear.

#### Fitting range
- Baha® 6 Max: Up to 55 dB SNHL
- Baha® 5 Power: Up to 45 dB SNHL
- Baha® 5: Up to 55 dB SNHL
- Baha® 4: Up to 45 dB SNHL

You don’t have to compromise between size and performance to experience a life rich in sound with Baha® 6 Max. We’ve packed more power into our smallest and most discreet bone conduction sound processor.

#### Average Maximum Power Output
- Baha® 6 Max: 118 dB
- Baha® 5 Power: 106 dB
- Baha® 5: 114 dB

Research suggests that speech understanding in noise improves with higher maximum power output (MPO) and that Baha® 6 Max has 7 dB higher MPO than Baha® 5 and similar MPO to Baha® 5 Power.

#### Frequency range
- Baha® 6 Max: 200–7000 Hz
- Baha® 5 Power: 250–7000 Hz
- Baha® 5: 250–7000 Hz
- Baha® 4: 250–6700 Hz

Research suggests that a device with higher frequency range can improve recognition of high-frequency consonants in quiet and in noise. Many important sounds are found in the higher frequencies like birds chirping, a whistle or flute and the consonants F, S, or K. Baha® 6 Max has higher frequency range than Baha® 5, Baha® 5 Power and Baha® 4.

#### Visual indicator (LED)
- Baha® 6 Max has an LED indicator light, which helps parents and caretakers see when the processor is on and connected.

#### Dust and water resistance
- Baha® 6 Max: IP68
- Baha® 5 Power: IP63
- Baha® 5: IP63

The Baha® 6 Max has higher water and dust protection compared to our earlier sound processors so you can enjoy life’s everyday adventures and never worry about getting caught in the rain! This excludes the battery compartment itself.

#### Battery life
- Baha® 6 Max: Typically 44–122 hours
- Baha® 5 Power: Typically 36–94 hours
- Baha® 5: Typically 80–160 hours

At similar settings, the Baha® 6 Max delivers longer battery life compared to Baha® 5. Baha® 5 Power is larger in size and typically delivers longer battery life.

### Technology & Connectivity

#### Transducer technology
- BCDrive™ II
- BCDrive™
- BCDrive®
- Conventional

The transducers in Baha® 6 Max, Baha® 5 Power and Baha® 5 Power are symmetric electromagnetic transducers. This means the transducer has less distortion, higher reliability and better efficiency compared to a conventional asymmetrical transducer design found in Baha 4.

#### Processing platform & resolution
- XiDum™ 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 XiDum™ platform. This gives Baha® 6 Max additional capabilities compared to previous generation sound processors, like increased frequency range, direct streaming to both Apple and Android devices and the ability to scan your sound environment 300 times per second.

Processing power and resolution are two factors that determine the quality of the audio you hear, and the XiDum platform has enhanced both. This means Baha® 6 Max is designed to give you access to more clear, rich and natural sounds.

#### SmartSound® iQ scene classifier & noise reduction
- 300 scans per second
- 200 scans per second
- 200 scans per second

We’ve enhanced our SmartSound® technology, which is designed to deliver a clear signal to give you the best possible speech understanding even in a noisy situation. The Baha® 6 Max scans the environment more often than our earlier sound processors to define the nature, position and characteristics of the sound and help reduce things like wind noise and help with directivity and bilateral directionality.

The feedback manager in Baha® 6 Max is improved compared to Baha® 5 and Baha® 5 Power. With Baha® 6 Max we’ve improved our feedback manager compared to Baha® 5 and Baha® 5 Power, giving you access to clear sound with less interruption from unwanted noises like squawks and squawks. Plus, the completely new 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 for compatible Android devices helping you stay connected to the things you love. For compatibility information, visit www.cochlear.com/compatibility.

#### Direct streaming to Apple® devices
- Baha® 6 Max is designed to give you access to more advanced sound adjustments compared to the Baha® 5 Smart App.

You can stay connected with the things that are important to you all from your compatible Apple device. 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

The new Baha Smart App lets you change programs, adjust volume, personalize your hearing experience, and locate a missing sound processor and gives you access to more advanced sound adjustments compared to the Baha® 5 Smart App.

#### FM connectivity
- Using the Mini Microphone 2+ provides recipients access to FM connectivity in public spaces and classrooms.

#### Future-ready for Bluetooth® LE
- As new technologies are always being developed, new connectivity features to help with hearing loss are just around the corner. Bluetooth LE is the next generation Bluetooth audio protocol which will open new possibilities to hear and connect. You’ll be able to experience better sound quality and the new broadcast audio feature which allows streaming to unlimited devices so you can do things like connect to a compatible audio source like a TV in a public space, 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 this new technology when it comes.

### References

### Additional data
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- Additional data derived from the following: