Users report a brilliant sound experience with Beltone Amaze

With an enriched new platform, Beltone Amaze adds industry-leading capabilities in input dynamic range and frequency bandwidth to its unique sound processing strategy to enable fuller, clearer and richer sound.

- 100% faster processing and twice the memory
- Industry-leading input dynamic range extending to 116 dB SPL
- Extended high frequency bandwidth to 9.5kHz
- New, integrated sound-processing package
- Adjustable Impulse Noise Reduction for comfortable sound in any environment
- Industry's widest bandwidth for direct streaming from Apple devices
- New radio with 5 dB improvement in sensitivity

No limits

Music is an example of one type of sound that can be challenging for hearing aids to amplify with the best fidelity. Because music has greater peaks in level and is often enjoyed at louder levels than many other sounds, hearing aid users are often disappointed in how their hearing aids reproduce music. The peaks of music or other loud sounds may exceed what the hearing aid can digitize without clipping the signal and adding distortion. With Beltone Amaze, the input dynamic range extends to 116 dB SPL – the industry's highest. It can make full use of the capabilities of today's hearing aid microphones.

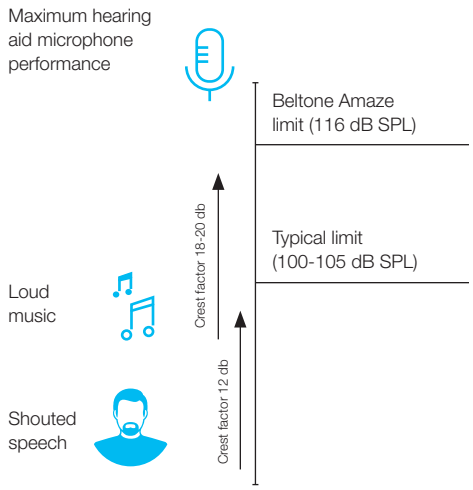


Figure 1. The highest level sound that hearing aids can accept defines the top of the input dynamic range and is of great importance for sound quality. Today's hearing aid microphones can transduce very high sound levels, but the analog-to-digital conversion of those levels may not be possible without creating distortion. While hearing aids can take in speech at varying levels, other sounds – like music – can be challenging.

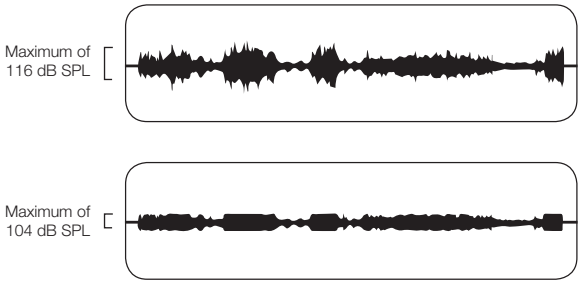


Figure 2. When music is played at a high level, hearing aids with a typical input dynamic range can clip the peaks of the signal, creating distortion (bottom panel). Beltone Amaze can faithfully reproduce the entire signal (top panel).

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[1] Compared to previous generation platform

Extended high frequency response

It is desirable for hearing aids to provide a wide frequency bandwidth. The accessibility of frequencies beyond the typical 5 to 7 kHz upper range of bandwidth can contribute greatly to the user's listening experience. Specifically, it can enhance:

- Voice, speech and overall sound quality
- Sound localization
- Recognition/identification of voices
- Speech intelligibility

Sound quality is also important for streaming. Beltone has unique access to higher bandwidth streaming from Apple devices, and Beltone Amaze can make full use of this capability.

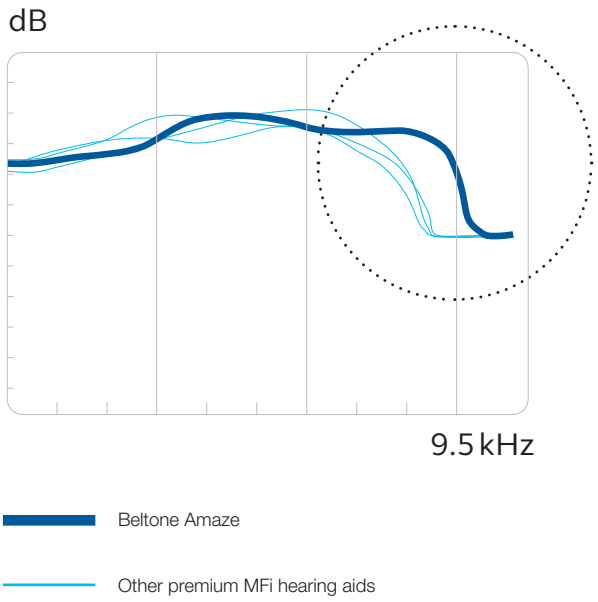


Figure 2. Bandwidth with direct streaming from an Apple device is limited for other MFi hearing aids. Beltone Amaze (blue curve) has access to a broader streaming bandwidth, contributing to sound quality.

M102659GB-18.06-Rev.A

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