

ReSound OMNIA • Made for hearing in noise

Help your patients hear their best in noise with ReSound OMNIA

Hearing in noise is the biggest unmet need, and the number one driver of hearing aid satisfaction

The desire to hear better in noise and be able to participate in group conversations is the main reasons people purchase hearing aids. Nearly three quarters of people with hearing loss feel it is extremely important to hear well, especially at home with family members, and in order to follow conversations in noisy environments. And research shows that hearing aid performance including hearing in noise is the number one driver of hearing aid satisfaction.[1]



53%

At home with family members[1]



44%

Following conversations in noise



41%

Talking on cellphone



40%

1:1 conversations in noise



37%

Watching TV with others

Hear all the details – in any direction

ReSound OMNIA™ is made for hearing in noise - enabling your patients to enjoy an incredible 150% improvement in speech understanding in noise.[2] They can hear who they're talking to without being separated from the sounds around them.

ReSound OMNIA is the only hearing solution to simultaneously combine two important benefits for real-world listening:

1. Narrow 4-microphone beamforming directionality for hearing in noise.[1]
2. True omni directional listening for a natural listening experience that doesn't feel cut off from the world around you.[2]

1. MarkeTrak 22, 2022
2. 4.36 dB SNR improvement compared to legacy products. Jespersen & Groth (2022)

How did we achieve this feat?

The unique ReSound strategy for applying directional technology is based on our Organic Hearing™ philosophy, and combines the strengths of technology with the ability of the human brain to focus, monitor, and shift attention to the surrounding soundscape. This augmented intelligence solution is a first in the hearing aid industry.

4-mics and ear-to-ear wireless data and audio transmission



Low level decisions are made by the hearing aid intelligence to select optimum microphone modes for the environment.

Human auditory processing

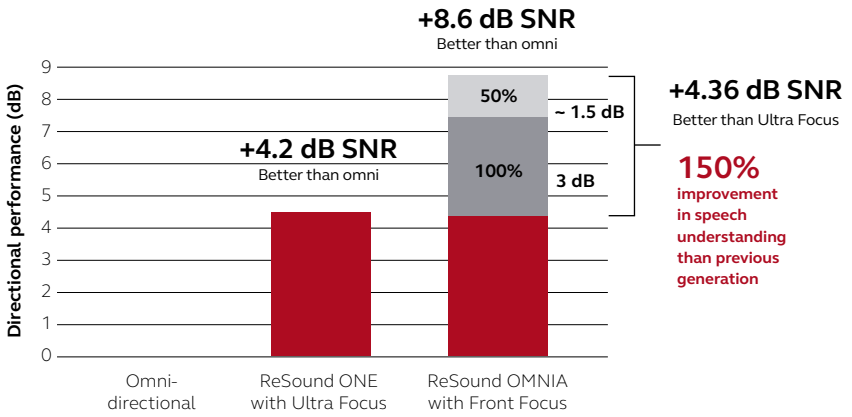


High level decisions are made by the unmatched capability of the brain.

Augmented intelligence that combines the strengths of technology and the human brain.

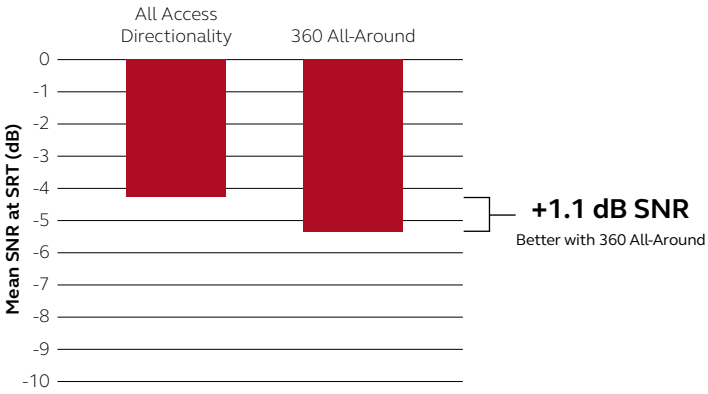
This solution enhances the brain's natural ability to focus on wanted sounds, ignore unwanted sounds, and effortlessly change attention among sounds.

Unique in the industry, the ReSound 4-microphone beamformer is designed to preserve some spatial hearing cues for better orientation in the environment, better sound quality and better quality of own voice. In ReSound OMNIA, we have improved resolution and bilateral synchronization of the beamforming system to better account for acoustic effects of the head and torso, resulting in the astounding 4.36 dB SNR improvement compared to our legacy technology.



Only beamforming in the industry to improve hearing in noise without feeling cut off.

Peer-reviewed studies confirm that the brain relies on the ear with the best SNR for what a person wants to hear. The brain can either take advantage of the head shadow effect to sharpen hearing in noise, or it can make the head acoustically transparent, to monitor what is going on in the surroundings. We enhance this natural ability in noisy situations with the industry only solution of providing narrow directionality on one ear and omnidirectional response on the other ear. In ReSound OMNIA, we stream sound from the directional side to the omnidirectional side to provide 360 degree audibility, resulting in even better ability to hear sounds not in front compared to legacy.



To find out more, visit pro.resound.com

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