

WIDEX ALLURE™ AI RIC WITH CLARITY BOOST

CLARITY BOOST CONTINUES TO DELIVER BETTER SPEECH UNDERSTANDING THAN TWO LEADING COMPETITORS WITH AI-BASED DENOISING

To compare the levels of speech understanding provided by Allure AI RIC with Clarity Boost and two newly released hearing aids with AI-based denoising from leading competitors, the speech-in-noise test performed in a previous study* was repeated. The results demonstrate that Clarity Boost provides significantly higher levels of speech understanding than both competitors in a realistic and challenging noisy test scenario with speech presented randomly from front and side locations.

Key findings

- Clarity Boost delivered the highest mean speech-understanding score vs. the latest premium products from two leading competitors.
- The observed differences in speech understanding were statistically significant.

Methods

- Fifteen experienced adult hearing-aid users with mild-to-moderately severe hearing loss participated.
- Three hearing aids were tested: Widex Allure AI RIC and the newly released premium RIC hearing aids from two leading manufacturers, GN ReSound and Oticon, which randomly have been assigned to the labels "M-A" and "M-B".
- The hearing aids were fitted bilaterally to each participant using the manufacturers' proprietary fitting rationales and closed/power eartips.
- All hearing aids were tested in their manual speech-in-noise program with AI-based denoising activated (Clarity Boost for Allure AI RIC).
- Participants were listening in a realistic food-court sound scene, which was ambisonically reproduced in a 45-loudspeaker setup.
- Speech understanding was assessed in a simulated conversation with target sentences being presented from the front (0°) and right side (+90°) in a randomized, balanced order at an individually determined signal-to-noise ratio (SNR).
- The outcome measure was the percent of correctly repeated keywords in the target sentences, calculated across the two target directions.

Results

- Clarity Boost provided a mean word-recognition score of 67%, compared to 61% for M-A and 58% for M-B.
- The differences between Clarity Boost and M-A and M-B were statistically significant according to Fisher permutation tests.
- The comparison confirms that the speech-understanding superiority of Widex Allure with AI RIC observed in an earlier study* remains with the manufacturers' newer products.

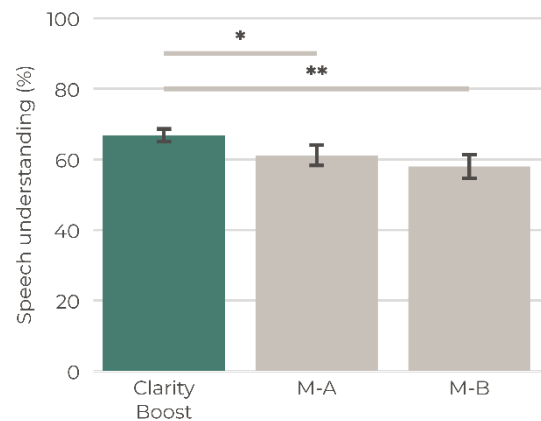


Figure 1: Mean speech understanding (% correctly repeated words), averaged across participants and target directions, for Widex Allure AI RIC with Clarity Boost and the speech-in-noise programs of the two manufacturers, M-A and M-B. Error bars depict $\pm$ one standard error of the mean. * $p < .05$, ** $p < .01$.

* Bianchi F., Vestergaard F.V., Vormann M. (2026). Superior speech understanding. Less effort. A better listening experience. WidexPress 65.

Clinical implications

When additional support is needed in noisy situations, Clarity Boost gives users an on-demand option that continues to provide superior speech understanding, even when benchmarked against newly released competitor technology.