

WIDEX ALLURE™ AI RIC WITH CLARITY BOOST CLARITY BOOST DELIVERS THE HIGHEST OUTPUT SNR VS. FOUR LEADING COMPETITORS WITH AI-BASED DENOISING

Technical measurements of the output signal-to-noise ratio (SNR) in challenging speech-in-noise scenarios show that Widex Allure AI RIC with Clarity Boost provides the highest SNR improvement in comparison with the newest premium hearing aids (as of September 2026) from four leading competitors. The results are consistent at input SNRs of 0 dB and +5 dB, indicating robust speech-in-noise processing provided by Clarity Boost across the tested conditions.

Key findings

- Allure AI RIC with Clarity Boost ranked highest at both input SNRs.
- The output SNR improvement delivered by Allure AI RIC with Clarity Boost is up to 3.5 dB compared to the competitors.

Methods

- Hearing aids were fitted bilaterally to a KEMAR manikin using closed eartips and programmed for a moderate, sloping hearing loss using the proprietary rationale.
- All hearing aids were tested in their manual speech-in-noise program with AI-based denoising (Clarity Boost for Allure AI RIC).
- Speech presented from 0° or -45° at 70 dB(A). Canteen noise mixed with steady-state noise presented from 135° and 225° at 70 dB(A) or 75 dB(A), corresponding to input SNRs of 0 dB and +5 dB (typical SNRs for challenging communication situations in the real world).
- Hagerman phase-inversion method used to estimate the output SNR (in the left ear) at both input SNRs, averaged across the two speech directions.
- The competitor hearing aids included the latest premium RIC hearing aids from Oticon, GN ReSound, Starkey and Phonak (as of September 2026), which randomly have been assigned to the labels "Comp A-D".

Results

- For both input SNRs, results are reported in Figure 1 as the Speech Intelligibility Index (SII)-weighted improvement in output SNR relative to the SNR measured in the unaided KEMAR ear.
- At both input SNRs, Clarity Boost produced the largest SNR improvement relative to unaided listening.
- The relative ordering of the five hearing aids was consistent across the two test conditions, while the magnitude of the SNR improvement was generally greater in the more challenging 0 dB condition.
- Compared to the four competitors, Clarity Boost delivered SNR improvements of up to 3.5 dB.

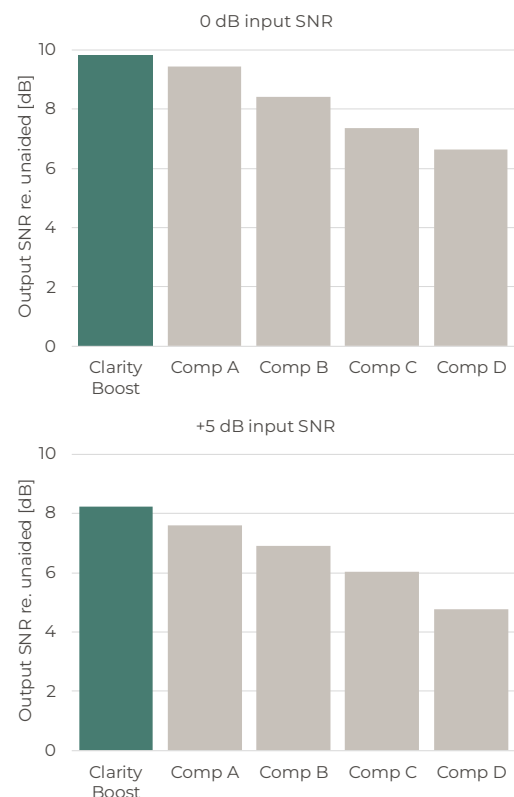


Figure 1: SNR improvement vs. unaided at two input SNRs (0 dB and +5 dB) for Widex Allure AI RIC with Clarity Boost and the most recent premium RIC hearing aids from four leading competitors (as of September 2026).

Clinical implications

Widex Allure AI RIC with Clarity Boost provides users with natural-sounding AI-denoising that offers superior improvements of the SNR in challenging speech-in-noise situations, which is one of the most important prerequisites for improving speech intelligibility.