

WIDEX ALLURE™ AI RIC WITH CLARITY BOOST

# WIDEX ALLURE AI RIC WITH CLARITY BOOST: CLARITY AND COMFORT, NATURALLY COMBINED.

Widex Allure AI RIC with Clarity Boost combines Widex's long standing commitment to natural sound with a powerful user-activated AI co-processor designed to provide additional support in noise. In a laboratory study, participants achieved 20.5% better speech intelligibility when in the Clarity Boost program and reported lower listening effort and higher comfort than in the Universal program. In challenging listening conditions, 95% of participants reported preferring the Clarity Boost program when speech was presented from the sides and 70% when speech was presented from the front. These results highlight Clarity Boost as an effective complement to the natural sound quality of the Universal program, offering clinicians a new tool to help wearers in noisy listening environments.

### Key findings

Study participants using Widex Allure AI RIC with Clarity Boost in noisy listening environments:

- Achieved 20.5% better speech intelligibility in challenging listening situations with speech from the sides;
- Reported lower listening effort and higher comfort;
- Reported high preference over the Universal program.

### Method

- 20 adult listeners with moderate-to-severe sensorineural hearing loss.
- Speech-in-noise performance was measured in cafeteria background noise with Allure AI RIC in Clarity Boost vs. the Universal program.
- Four listening conditions were tested:
  - Challenging listening condition (50% correct threshold, SRT50), with target speech either at the front or sides.
  - More realistic listening condition (90% correct threshold, SRT90), with target speech either at the front or sides.
- Subjective ratings of listening effort and listening comfort as well as program preference were also collected during the speech-in-noise task.

### Results

In challenging listening conditions (SRT50):

- Participants achieved 20.5% better word recognition with Clarity Boost for side targets (Fig. 1, left).
- Participants reported significantly lower listening effort and higher comfort with Clarity Boost for side targets.
- 95% of participants preferred Clarity Boost for side targets and 70% of participants for frontal targets (Fig 2).

In more realistic listening conditions (SRT90):

- Participants reported significantly lower listening effort and higher comfort with Clarity Boost for both frontal and side targets (Fig 1, right).
- 75% of participants preferred Clarity Boost for side targets (Fig. 2).

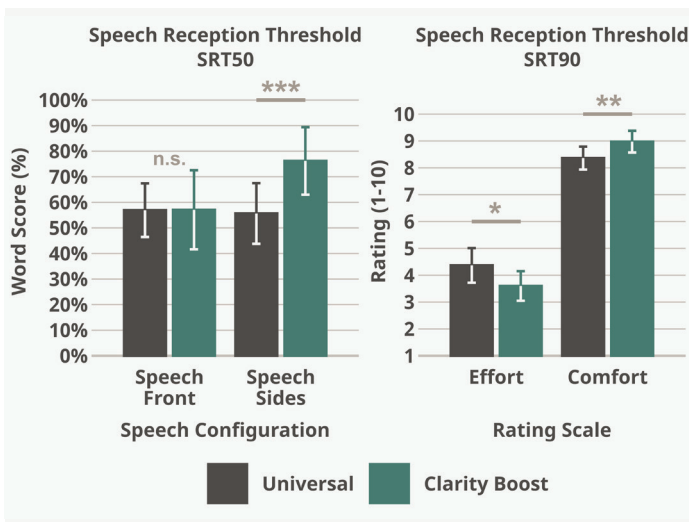


Figure 1: Word recognition scores at SRT50 (left panel) and subjective ratings of effort and comfort at SRT90 (right panel).

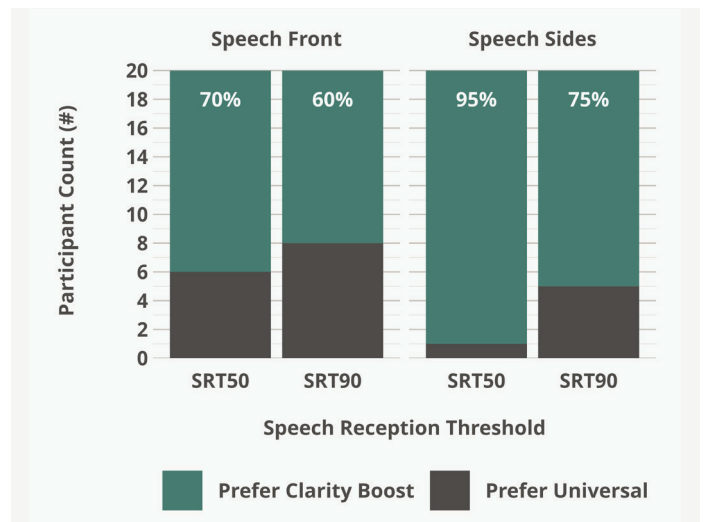


Figure 2: Number of participants selecting either Clarity Boost (green) or Universal (grey) as their preferred program after the speech-in-noise test.

### Clinical implications

Widex Allure AI RIC with Clarity Boost empowers users with the option of enhancing clarity and comfort across a variety of noisy situations.