

REXTON BICORE SOUNDPRO 2.0

HANDBOOK

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REXTON

INTRODUCTION

For hearing aid wearers, the ability to engage in conversations in noisy environments is crucial. They want to actively participate and contribute, rather than passively listen. Traditional hearing aids focused on identifying sound sources, reducing noise, and prioritizing speech. However, in noisy situations where both the wearer and others are speaking, the hearing aid's automatic steering may be disrupted by the wearer's own voice being louder. This can lead to suboptimal support, inconsistent microphone directionality, and reduced speech understanding.

HOW IT WORKS

Rexton prioritizes a comprehensive understanding of the entire acoustic scene, including all sound sources. This led to the integration of own voice detection into the analysis of the complete sound scene in Sound Pro 2.0. By utilizing Rexton's advanced MyVoice 2.0, speech enhancement and noise attenuation algorithms can be precisely tailored to the specific communication scenario.

MyVoice 2.0 effectively isolates the wearer's own voice from background noise and optimizes its processing without interfering with the processing of the background sound. However, in the improved Sound Pro 2.0, MyVoice 2.0 not only enhances the wearer's perception of their own voice but also functions as an additional sensor, contributing to the analysis of the entire sound scene. Accurately determining whether it is the wearer or someone else who is speaking allows for the appropriate level of support to be provided through the advanced Sound Pro noise reduction and directionality systems when the wearer actively engages in conversations in demanding sound environments. As a result, MyVoice 2.0 aids in achieving optimal processing not only for the wearer's own voice but for the entire sound environment, including the voices that the wearer intends to focus on. This ensures wearers consistently experience stable and optimal support, enabling them to engage in conversations confidently even in challenging sound environments.

PREREQUISITES

- Install Connexx RexFit 9.9
- Update firmware of BiCore hearing instruments
- If MyVoice 2.0 was already trained, no further steps required – upgraded Soundpro 2.0 is active. If MyVoice 2.0 was not trained yet, please train to activate.
- Available for form factors RIC, SLIM RIC, BTE on performance level 80 / 60 / 40

ACTIVATION

The improved Soundpro 2.0 can make use of MyVoice 2.0 to be even more precise in predicting the demands of the user. He/she will now always experience a stable and optimal support, enabling him/her to understand relevant speech better.

Figure 1 illustrates the difference between the provided support of an “own voice-blind” hearing aid and an “own voice-trained” hearing aid. The “support” axis indicates the activation of different supporting algorithms. While the “own voice-trained” hearing aids can provide a stable and appropriate amount of support, the “own voice-blind” hearing aid fluctuates between different states of support.

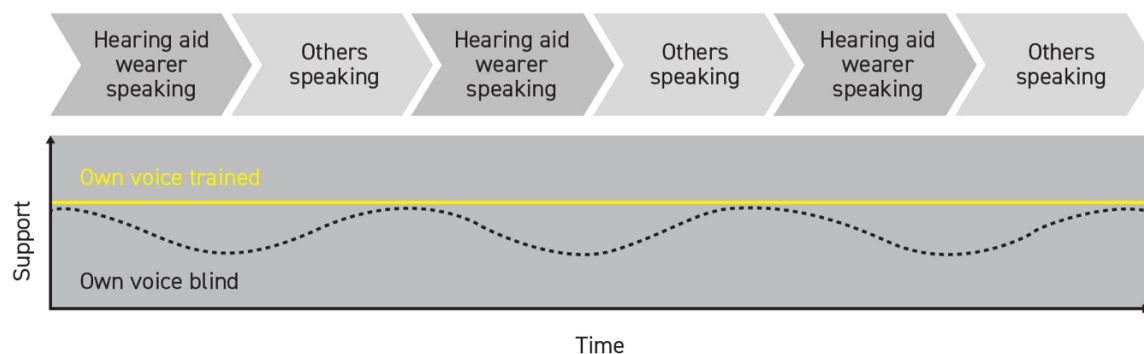


Figure 1: Comparison of support with "own voice-blind" hearing aid and "own voice-trained" hearing aid.

Although, from a high-level point of view, this upgrade is just one little detail in the Soundpro 2.0 analysis, but it is a detail that counts for speech understanding, sound quality, and localization in real life conversations and hence further improves the power of the BiCore platform to provide speech understanding in noise.

RELY ON REXTON

We believe that nothing hearing related should ever be left to chance, both for the people with hearing loss, and those who depend upon them. We understand their challenges and we meet them with proven hearing technology that is made Lifeproof so it can be counted upon to perform reliably in even the harshest environments. At work, at home, during leisure time, exercise and in all weather, you can always **RELY ON REXTON.**

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