



ClearVoice Optimization Tips

Recipient feedback:	Clinician may consider the following:
Recipient reports speech is softer or too soft	<ul style="list-style-type: none"> • Increase M levels globally* • Allow the recipient to manipulate the volume control
Recipient reports “missing” ambient sounds or that quiet environments are “too quiet” (e.g., report feeling like they are in an empty room)	<ul style="list-style-type: none"> • Increase T levels globally until recipient reports ambient sounds are audible again in a quiet environment. Note that the amount of T level adjustment will vary depending on the ClearVoice setting (Low, Medium, High) and the T level setting (10% of M, Manual, Ts set to zero). For some patients, a significant increase in T levels might be required.
Recipient requests more ClearVoice effect	<ul style="list-style-type: none"> • Adjust the ClearVoice selection to Medium or High
Recipient requests less ClearVoice effect	<ul style="list-style-type: none"> • Adjust the ClearVoice selection to Low or Medium

***Evaluation of the ClearVoice Strategy in Children**

Nathalie Noël-Petroff, Cécile Ulmann, Thierry Van Den Abbeele, Nathalie Mathias, Laure Arnold, ASPCI 2011

Evaluation of ClearVoice Strategy in Children Using HiResolution Fidelity 120 Sound Processing

D Schramm M.D. S.M., E Shaw-Pickard M.Sc., Y Beauregard M.ScA., L Moran M.CISC., ASPCI 2011

ClearVoice use in Adults

Results of a Multicentre Evaluation Buechner, Andreas et al., ASPCI 2011

Demonstrate ClearVoice Benefit

To verify the benefits of ClearVoice effectively during patient fittings, consider:

- Testing in a steady-state noise, such as speech-shaped noise.
- Using a continuous noise presentation.
- Using a sentence test because ClearVoice works best when the speech signal is long (word tokens are too short).
- Determining first a signal-to-noise ratio that brings performance to approximately 50% of the recipient’s score in quiet while using the original (non-ClearVoice) program. This SNR will prevent a ceiling effect so that ClearVoice benefit will be evident when tested at the same SNR.

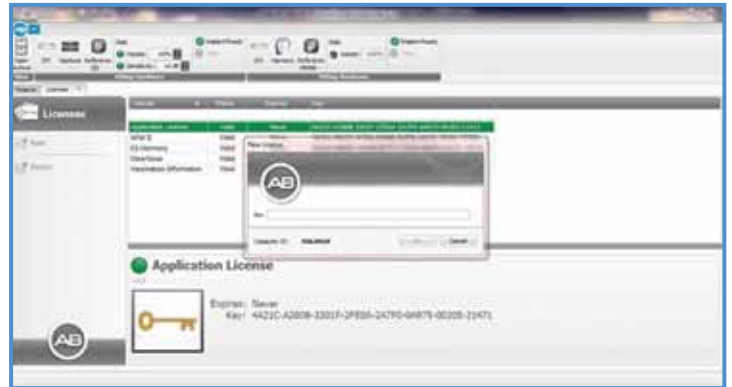
Programming Quick Reference Card

Getting Started

- Launch SoundWave™
- Go to the Software Options Menu
- Select Licenses
- Once in the License Screen, select New
- Enter the License Key provided by Advanced Bionics
- Select OK

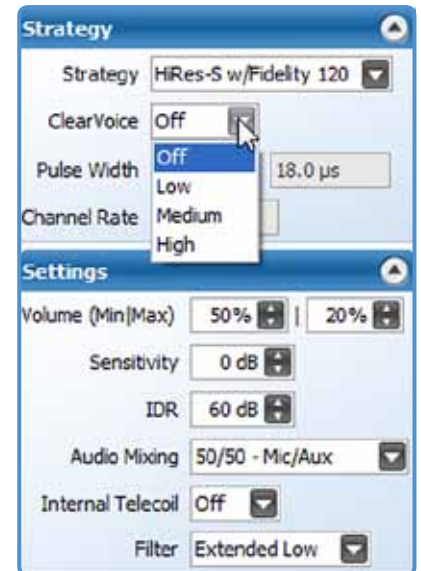
**Please note that the License Key only needs to be entered one time; it does not have to be entered every time a patient returns to the clinic*

- Connect the sound processor to the fitting hardware and place the headpiece on the patient's head.
 1. Check the Fitting Hardware Task Group in the Ribbon Bar
 2. The task group should indicate the implant is ready



For Return Patients

- Open the Patient File
 1. Select the patient name from the Patient Management Grid
 2. Double click on the name or choose **Open** from the Action Pane
- Review Impedances
- Manage Programs
 1. Select a program from the Patient Record Window and **Copy** or **Open**. Alternatively, select **New** and create a new program
 2. Under the Program Parameter Group Pane, verify the Strategy selected is HiRes-S w/Fidelity 120 or HiRes-P w/Fidelity 120
As a reminder, in order to enable ClearVoice, a HiRes 90K or CII patient must be programmed using a HiRes Fidelity 120 strategy with a Neptune™ or Harmony™ Sound Processor*
 3. Choose a ClearVoice selection: **Low**, **Medium** or **High**
 4. Turn on Live Speech Stimulation
 5. Fine tune the program parameters and adjust as necessary based on the patient's impressions of the sound quality
 - Verify M levels are appropriate
 - Adjust additional parameters as necessary
 - Try all 3 ClearVoice selections (Low, Medium or High)



For New Patients

- Refer to the SoundWave Programming Quick Reference Cards and follow the steps listed on pages 3–6
- At Step 3 – Create Programs, you will select a ClearVoice Target and then proceed as described above and in the SoundWave Programming Quick Reference Cards

Note: ClearVoice is compatible only with Harmony™ and Neptune™ sound processors and the HiRes 90K and CII Internal Device.

For additional programming optimization tips, please refer to the other side of this Reference Card.

*Not approved for pediatric use in the United States.