

BIMODAL FITTING FLOW

For the Nucleus® 7 Sound Processor and ReSound LiNX 3D™ or ReSound ENZO™ 3D hearing aids

PROGRAM COCHLEAR IMPLANT (CI)

Use Cochlear™ fitting software to fit the Cochlear implant. If required, fine tune the CI MAP for acceptable loudness and sound quality. Write to the processor using the default program:

- P1 SCAN
- P2 CUSTOM



PROGRAM HEARING AID

Launch ReSound Smart Fit™ software and set up the hearing aid with the following parameters:

- Experience: Non-linear
- NAL-NL2 prescription
- Program 1 All-Around (Soft Switching)
- Program 2 All-Around (Omni)



FINE TUNE HEARING AID

Verify using the Omni program, and ensure loudness and sound quality are acceptable. Modify gain, MPO and frequency response based on recipient feedback and preference.



VERIFY BIMODAL LOUDNESS BALANCE

Are the CI and hearing aid balanced? (Ask the recipient to judge if loudness is centered in the middle of the head rather than to one side.)

YES



Use AutoRelate in Tools menu to apply gain and MPO changes made with the Omni program to Soft-switching, phone accessory and streaming accessory programs. Adjust the mixing ratio for the Phone Clip and TV streamer to -6 dB. To enable bimodal pairing to wireless accessories, re-open the Cochlear fitting software to the Write to Processor screen. Select Processor Configuration, link the processor to the hearing aid and write the MAP to the processor.



NO



Adjust gain of hearing aid to balance loudness, based on recipient feedback and preference. In some cases, it may not be possible or preferred to achieve equal balance.



PROGRAMMING COMPLETE

Bimodal Fitting Procedure

The workflow below is for bimodal fitting of a Nucleus 7 Sound Processor and a ReSound LiNX 3D or ReSound ENZO 3D hearing aid. Follow the flow to match the devices in terms of program settings and signal processing parameters.

1. PROGRAM THE COCHLEAR IMPLANT using standard procedures with Cochlear Custom Sound™ 5.0 or higher fitting software. Fine tune if needed. Write to the sound processor using default program settings. This will create two programs: P1 SCAN and P2 CUSTOM.

2. PROGRAM AND FINE-TUNE THE HEARING AID using ReSound Smart Fit software.

Select Autofit.

In the Patient tab, select:

- Experience, Non Linear.
- Create two programs (Program 1, Program 2) both set to All-Around.

Under the Fitting drop-down options (top of screen):

- Target Rule: Select NAL-NL2 prescription

In the Advanced Features function:

- On the first All-Around tab, select Soft Switching. With this setting the directionality of the hearing aid is seamlessly adjusted depending on the listening situation, matching the SCAN program on the sound processor.
- On the second All-Around tab, select Omni. This more closely matches the directionality of the CUSTOM program on the sound processor.
- All other Advanced Features are recommended to be maintained at the default settings.
- Using the Omni program, verify the hearing aid fitting with Real Ear Insertion Gain if available, otherwise fit to simulated gain targets. Using the omni-directional microphone setting for verification will minimise attenuation effects if the recipient looks away from the speaker during the test.
- Adjust the hearing aid gain to match the prescribed targets as closely as possible.

3. VERIFY THE BIMODAL LOUDNESS BALANCE

Turn on the CI sound processor (at user-preferred settings) and fine tune the hearing aid settings for loudness comfort based on recipient feedback and preference.

Use AutoRelate in the Tools menu to apply gain and MPO changes from the Omni program to the Soft-Switching, phone accessory and streaming accessory programs.

4. WIRELESS PAIRING

If bimodal pairing to wireless accessories is desired, adjust the mixing ratio for the TV Streamer and Phone Clip in the Advanced Features of the Streaming and Phone Accessories programs. Select -6db to apply 6 dB attenuation to the hearing aid microphone relative to each of the accessories to match the 2:1 ratio used as the sound processor mixing default.



You do not need to adjust the mixing ratio for the Cochlear Mini Microphone 2/2+.

5. BIMODAL LINKING

To enable bimodal direct audio streaming from compatible Apple devices, re-open the Cochlear fitting software. In the Write to Processor screen, select Processor Configuration, link the processor to the hearing aid and write the MAP to the processor.

If the hearing aid was programmed before the CI sound processor, this linking step can be done at the time of the CI programming.

Cochlear and ReSound are partners in the Smart Hearing Alliance to develop the world's smartest bimodal hearing solutions



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The Nucleus 7 Sound Processor is compatible with iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone SE, iPhone 5s, iPhone 5c, iPhone 5, iPad Pro (12.9-inch), iPad Pro (9.7-inch), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, iPad (4th generation), iPod touch (6th generation) and iPod touch (5th generation) using iOS 10.0 or later. Apple, the Apple logo, Made for iPad logo, Made for iPhone logo, Made for iPod logo, iPhone, iPad Pro, iPad Air, iPad mini, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc., registered in the U.S. and other countries. Information accurate as of June 2017.

ReSound LiNX 3D and ReSound ENZO 3D are compatible with iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone SE, iPhone 5s, iPhone 5c, iPhone 5, iPad Pro (12.9-inch), iPad Pro (9.7-inch), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, iPad (5th generation), iPad (4th generation), iPod touch (6th generation) and iPod touch (5th generation) using iOS 8.X or later.

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