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On a Mac

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- Click Print
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- Click layout
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- Checkmark Black & White if wanted.

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- Click Print
- Choose # of pages per sheet from dropdown menu
- Choose Black and White from “Color” dropdown

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A solid red square is located in the bottom left corner of the page.

ReSound Smart Fit 2.Oh, That's New!

Erica Koehler, AuD
GN Hearing



Outcomes

- After this course, participants will be able to describe the new elements found on the Home screen.
- After this course, participants will be able to identify use cases where the new Instrument MPO button can help.
- After this course, participants will be able to name up to 6 offerings outside the fitting software contained within the new product release.

Overview

- Introduction
- Home screen & design research
- Fitting screen
- Beyond the software
- Summary & Review

Home screen & design research

- The purpose and progress of a new Home
- Connect
- Catalog
- Resources
- Updates
- Preferences

The purpose and progress of a new Home

Smart Launcher

soren beyer 50 years Male 11-04-1974

Family Style Other Instrument Mode

ReSound Nexia

ReSound Nexia 9
15 Models

ReSound Nexia 7
15 Models

ReSound Nexia 5
15 Models

ReSound Nexia CROS Transmitter

ReSound Nexia CROS Trans...
1 Models

ReSound OMNIA

ReSound OMNIA 9
16 Models

ReSound OMNIA 7
16 Models

ReSound OMNIA 5
16 Models

ReSound ONE

ReSound Smart Fit Connection

Noahlink Wireless ☐ ⓘ

Connection Assistance

Connect to ReSound Smart Fit

AutoFit Simulate

ReSound Aventa Connection ⓘ
Looking for ReSound LINX², ENZO², Enya or previous models?

Launch ReSound Aventa

Right Instrument

ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details

HL (dB)

Frequency (Hz)

MM UP HP MP LP

Left Instrument

ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details

HL (dB)

Frequency (Hz)

MM UP HP MP LP

Close

The purpose and progress of a new Home

Smart Launcher

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Noahlink Wireless

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Looking for ReSound LINX², ENZO², Enya or previous models?

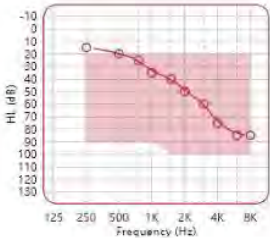
Launch ReSound Aventa

Right Instrument



ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details



HL (dB)

Frequency (Hz)

MM

UP

HP

MP

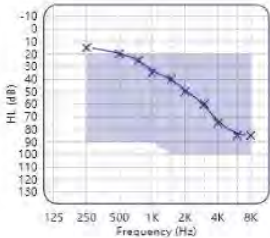
LP

Left Instrument



ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details



HL (dB)

Frequency (Hz)

MM

UP

HP

MP

LP

Close

The purpose and progress of a new Home

Smart Fit 1.0 needs

- Ability to launch the correct software for the product in one location
- Ability to identify product options for both software in one location
- Connecting should be clear and intuitive

Smart Fit 2.0 needs

- Connecting should be clear and intuitive
- Make pre-fitting activities accessible outside the session

The purpose and progress of a new Home

Smart Launcher

soren beyer 50 years Male 11-04-1974

Family Style Other Instrument Mode

ReSound Nexia

ReSound Nexia 9
15 Models

ReSound Nexia 7
15 Models

ReSound Nexia 5
15 Models

ReSound Nexia CROS Transmitter

ReSound Nexia CROS Trans...
1 Models

ReSound OMNIA

ReSound OMNIA 9
16 Models

ReSound OMNIA 7
16 Models

ReSound OMNIA 5
16 Models

ReSound ONE

ReSound Smart Fit Connection

Noahlink Wireless

Connection Assistance

Connect to ReSound Smart Fit

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ReSound Aventa Connection

Looking for ReSound LiNX², ENZO², Erya or previous models?

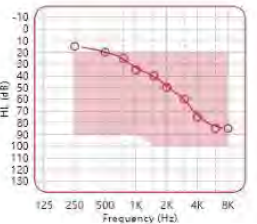
Launch ReSound Aventa

Right Instrument



ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details



HL (dB)

Frequency (Hz)

MM

UP

HP

MP

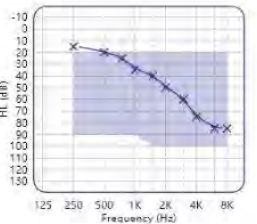
LP

Left Instrument



ReSound Nexia 9
NX960S-DRWC
RIE
MP Receiver

Unassign Details



HL (dB)

Frequency (Hz)

MM

UP

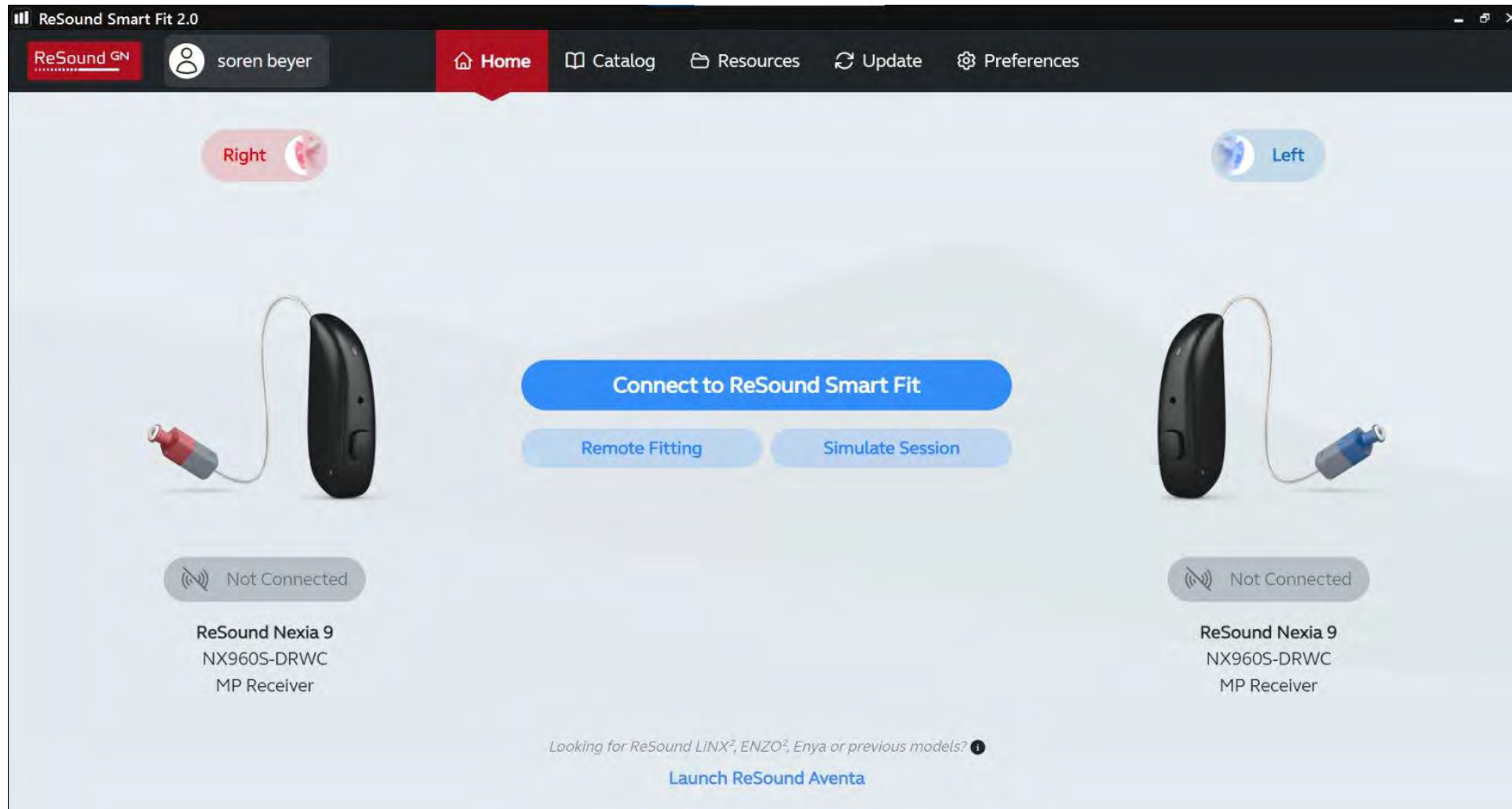
HP

MP

LP

Close

The purpose and progress of a new Home



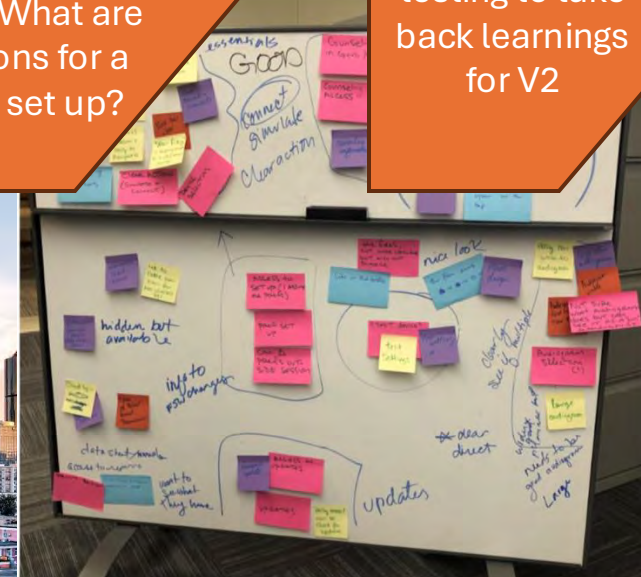
The purpose and progress of a new Home



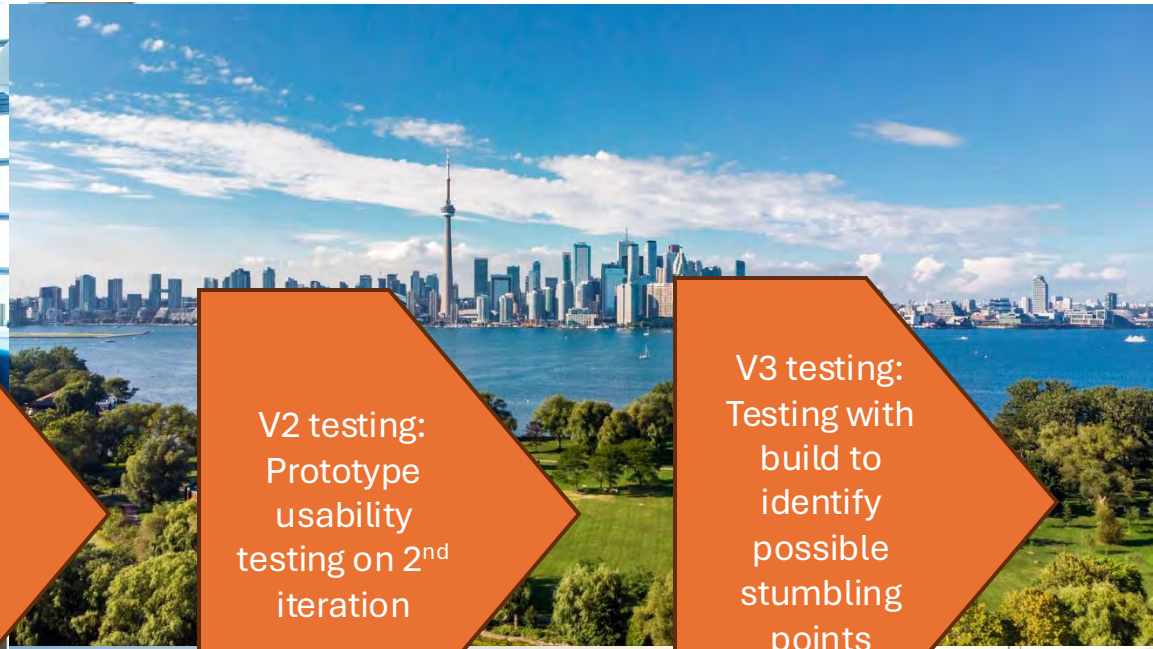
Exploration:
what purpose
does the
launcher need
to serve?
What is
important?



Definition: Too
much is
hidden after
connection
flow. What are
options for a
new set up?



V1 testing:
Prototype
usability
testing to take
back learnings
for V2

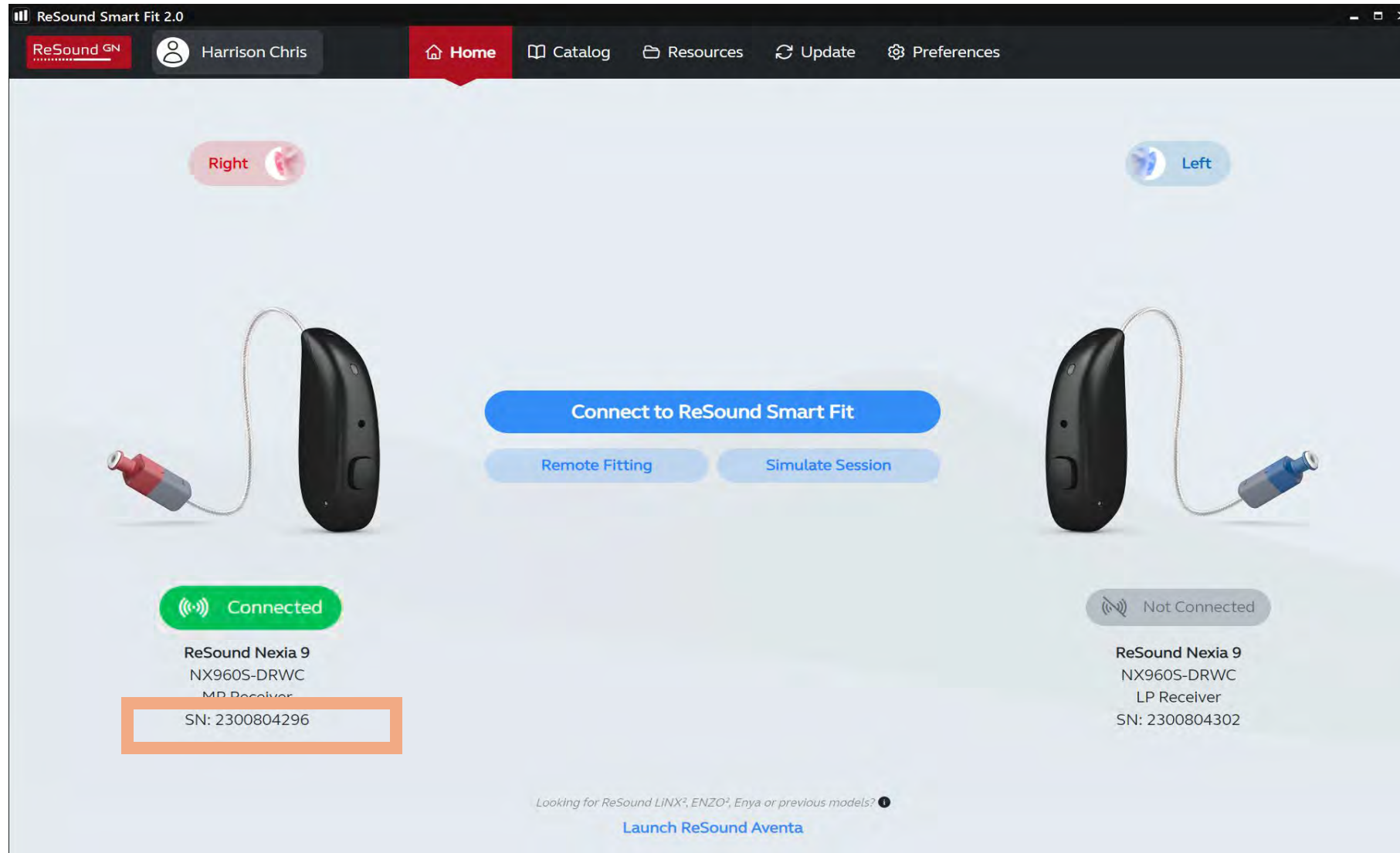


V2 testing:
Prototype
usability
testing on 2nd
iteration

V3 testing:
Testing with
build to
identify
possible
stumbling
points



Connect



Catalog

ReSound Smart Fit 2.0

Test Test6

HomeCatalogResourcesUpdatePreferences

Catalog

Filter

ReSound Nexia 5



NX588-DWC

Dual Microphone - Wireless - Rechargeable - Power Behind The Ear - Telecoil

RightBothLeft



NX577-DWC

Dual Microphone - Wireless - Rechargeable - Behind The Ear - Telecoil

RightBothLeft



NX562-DRW

Dual Microphone - Wireless - Receiver In The Ear - Telecoil

RightBothLeft



NX561-DRW

Dual Microphone - Wireless - Receiver In The Ear

RightBothLeft



NX560S-DRWC

Dual Microphone - Wireless - Rechargeable - Mini Receiver In The Ear

RightBothLeft



NX5ITE-DWC-UP

Dual Microphone - Wireless - Rechargeable - In The Ear

RightBothLeft



NX5ITE-DWC-HP

Dual Microphone - Wireless - Rechargeable - In The Ear

RightBothLeft



NX5ITE-DWC-MP

Dual Microphone - Wireless - Rechargeable - In The Ear

RightBothLeft



NX5ITC-DWC-UP

Dual Microphone - Wireless - Rechargeable - In The Canal

RightBothLeft



NX5ITC-DWC-HP

Dual Microphone - Wireless - Rechargeable - In The Canal

RightBothLeft



NX5ITC-DWC-MP

Dual Microphone - Wireless - Rechargeable - In The Canal

RightBothLeft



NX5ITC-DWC-LP

Dual Microphone - Wireless - Rechargeable - In The Canal

RightBothLeft

Right

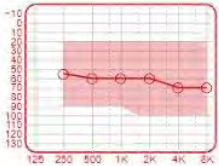
Left

ReSound Nexia 9

NX962-DRW

Dual Microphone - Wireless - Receiver In The Ear - Telecoil

Unselect



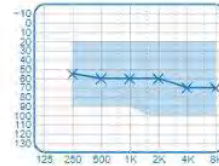
MMUPHPMPLP

ReSound Nexia 5

NX588-DWC

Dual Microphone - Wireless - Rechargeable - Power Behind The Ear - Telecoil

Unselect



Metal HookPlastic Hook

Features

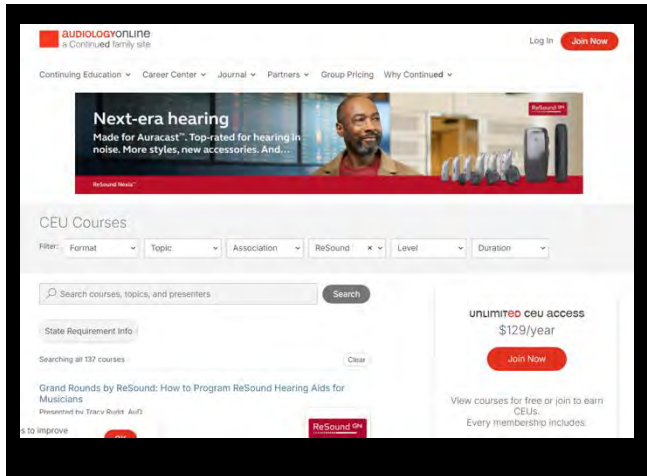
Specification

Noise Tracker II	☐	☒
Expansion	☐	☒
Spatial Sense	☐	☒
Binaural Directionality III	☐	☒
TSG Nature Sounds	☐	☒

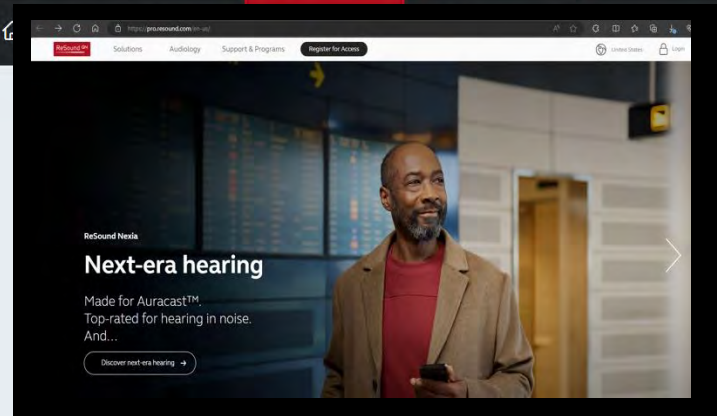
Order

Simulate

Resources



Education



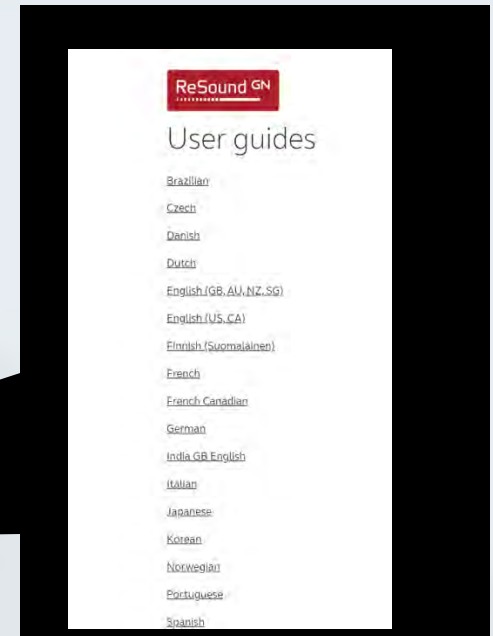
GNHearing.com



User Guides



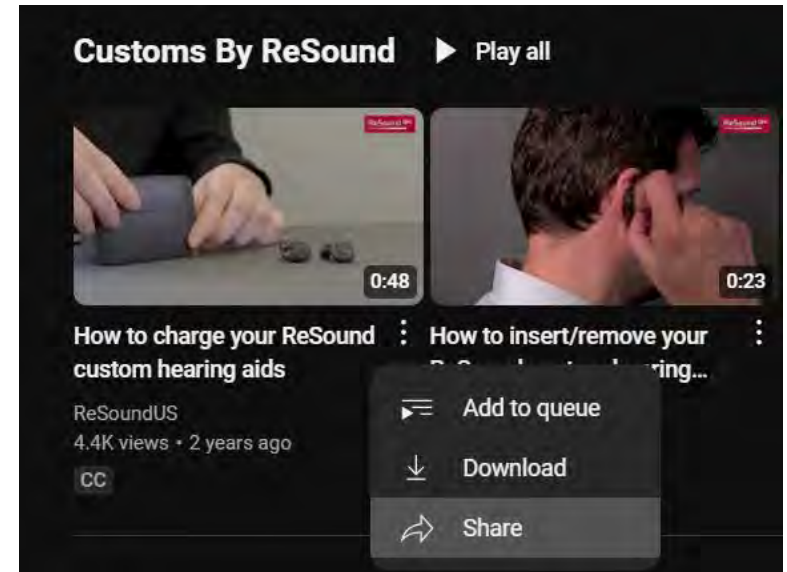
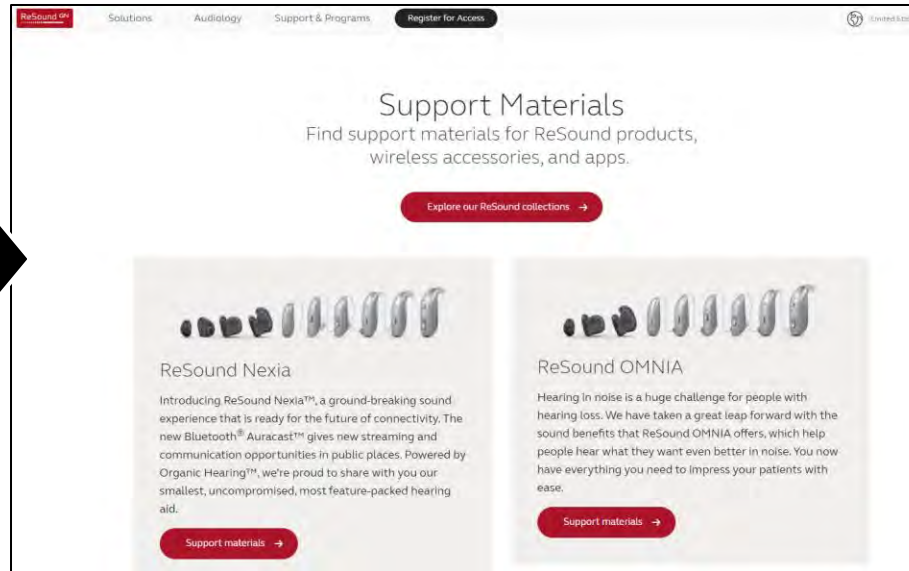
Support



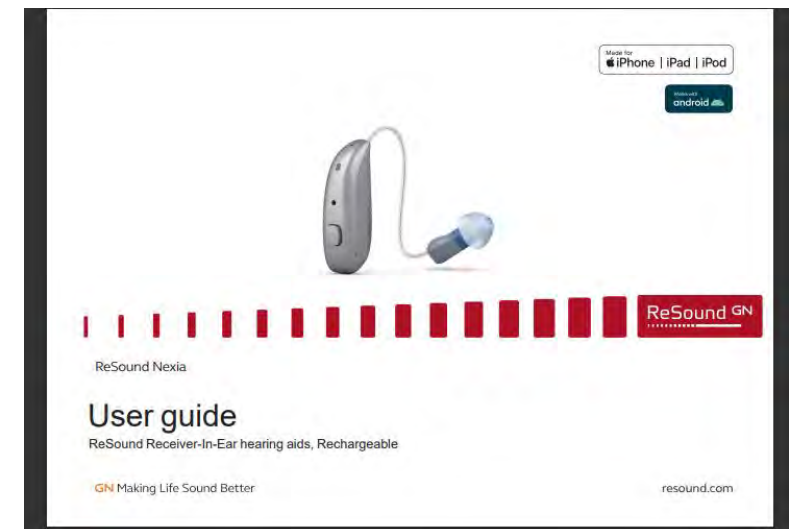
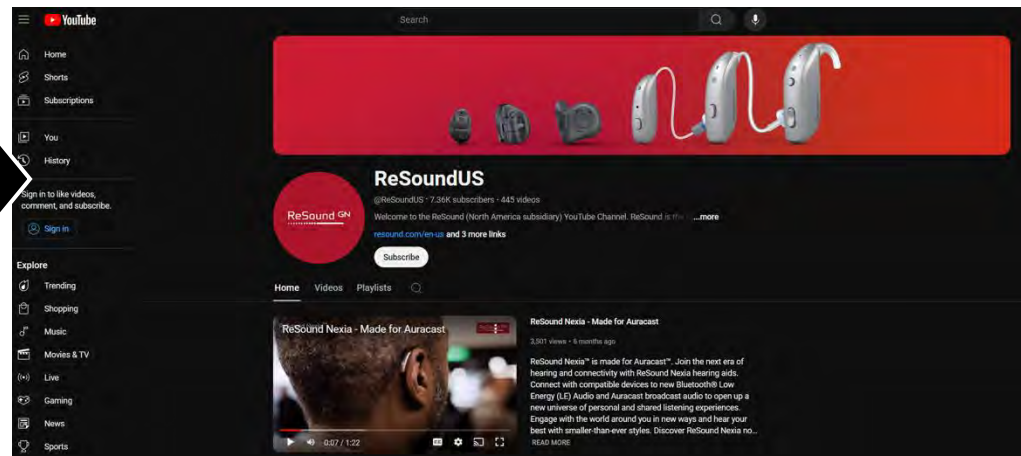
Resources



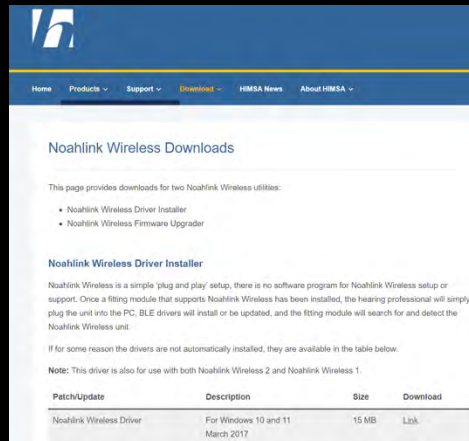
Support



Videos



Updates



Noahlink Wireless Downloads

This page provides downloads for two Noahlink Wireless utilities:

- Noahlink Wireless Driver Installer
- Noahlink Wireless Firmware Updater

Noahlink Wireless Driver Installer

Noahlink Wireless is a simple 'plug and play' setup, there is no software program for Noahlink Wireless setup or support. Once a fitting module that supports Noahlink Wireless has been installed, the hearing professional will simply plug the unit into the PC, BLE drivers will install or be updated, and the fitting module will search for and detect the Noahlink Wireless unit.

If for some reason the drivers are not automatically installed, they are available in the table below:

Note: This driver is also for use with both Noahlink Wireless 2 and Noahlink Wireless 1.

Patch/Update	Description	Size	Download
Noahlink Wireless Driver	For Windows 10 and 11 March 2017	15 MB	Link



NoahLink Updater



Software Updates



Accessory Updater

From the desktop,
same process

From hamburger
menu, same
process

Preferences

ReSound Smart Fit 2.0

ReSound GN mild N2

Home Catalog Resources Update Preferences

User Preferences Machine Preferences Clinic Info Test Device Proxy Settings Updates

Default Language: English

AutoRelate on Save: No

First fit sessions launch to: Patient Profile Screen

Fine-tuning sessions launch to: Gain Adjustments: Fine Tuning

When navigating to Gain Adjustments screen: Enter in Simulation Mode

In-Situ Tone Type: Pure Tone

In-Situ Tone Length: Manual Tone Length

Default Gain Level %: 100

Default Onboarding Gain Level %: 70

Default Environmental Programs:

1. All-Around
2. Hear In Noise
3. None
4. None

Use UCL Data

Enable Vent Correction

Use Bone Conduction

Enable Feedback Guard

Apply Binaural Correction

Bimodal

TapControl

Enable In-Situ for custom devices

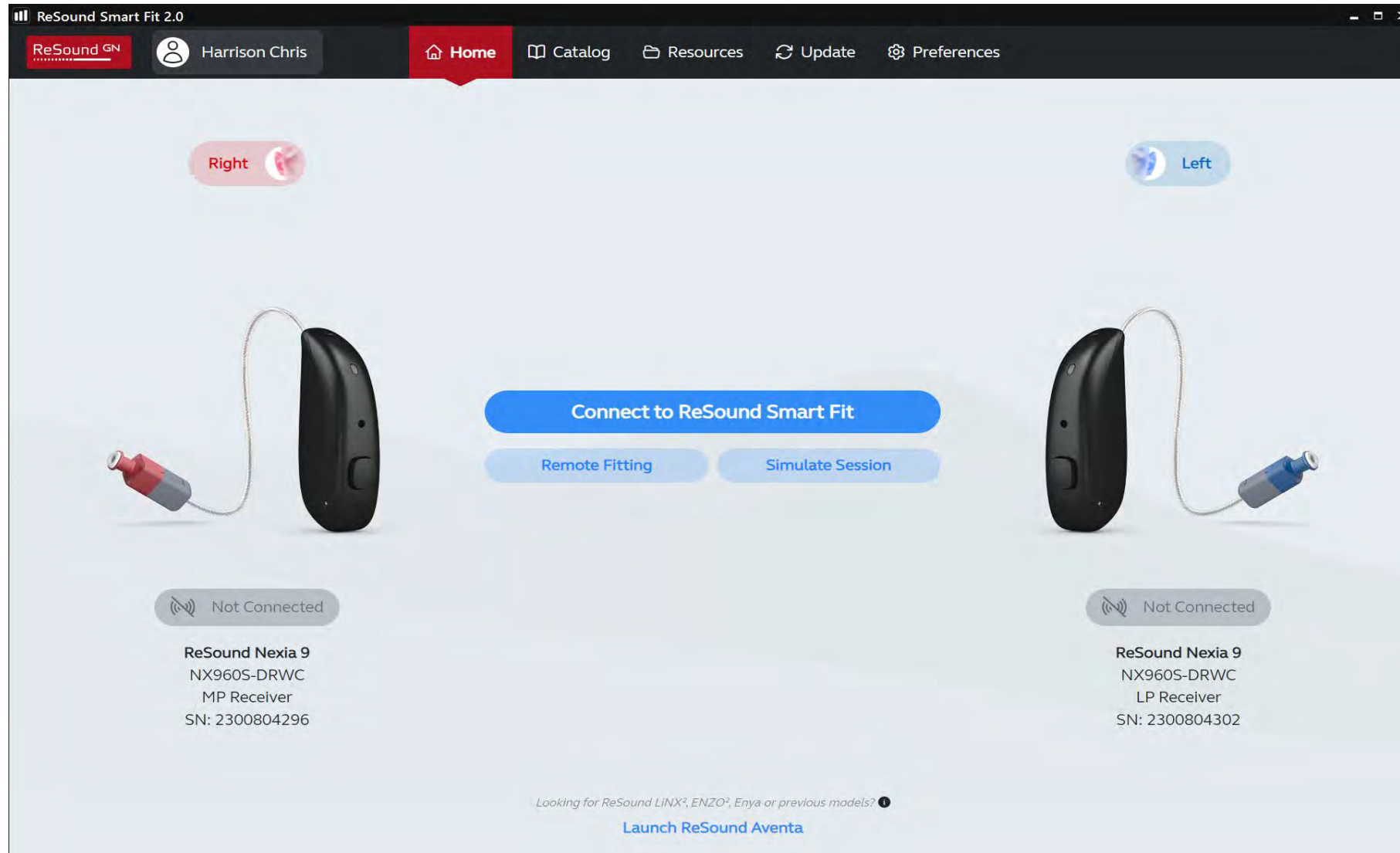
Remote Fine-tuning

Enable Remote Fine-tuning

Default Patient Setting

Cancel Save

What else?



Fitting screen

- Getting to and from Home
- Instrument MPO button
- Environmental Optimizer II in Hear in Noise program environment
- Aided gain in AutoREM

Getting to and from Home

The screenshot displays the GN Online Services software interface. A large orange arrow points from the 'Home' tab to the 'Gain Adjustments' tab. The interface includes a top menu bar with options: Home, File, View, Instrument, Fitting, Help. Below this, a secondary menu bar shows: Fine Tuning, Environmental Optimizer II, AutoREM, Acceptance Manager. The main workspace is divided into several panels. On the left, a graph shows Frequency (Hz) on the x-axis (log scale from 125 to 8K) and a y-axis ranging from -10 to 80. The graph displays a red shaded area and a red line. In the center, a panel titled 'Display Options' shows 'Linked' and 'Gain %' set to 100%. Below this is a 'Legend' section with 'Above FOG'. On the right, another graph shows Frequency (Hz) on the x-axis (log scale from 125 to 8K) and a y-axis ranging from -10 to 100. The graph displays a blue shaded area and a blue line. At the bottom, there are two data tables. The left table is titled 'All-Around' and the right table is titled 'Hear in Noise'. Both tables have columns for frequency (250, 500, 750, 1K, 1.5K, 2K, 3K, 4K, 6K, 8K) and rows for various parameters (50, 65, 80, CR, MPO). The 'Handles' section at the bottom shows a range from 6 to 10. A 'Calibrate DFS' button is visible at the bottom left, and a 'Save' button is at the bottom right.

Home | File | View | Instrument | Fitting | Help

Gain Adjustments

Frequency (Hz)

Gain % 100%

Legend Above FOG

Frequency (Hz)

All-Around Hear in Noise

	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	0	1	4	6	7	7	10	6	6	4
65	0	1	2	3	4	3	6	2	2	1
80	0	0	0	0	0	0	2	-1	0	0
CR	1	1	1.2	1.3	1.3	1.4	1.4	1.3	1.3	1.1
MPO	96	99	100	102	104	107	108	109	110	110

Handles: 6 10

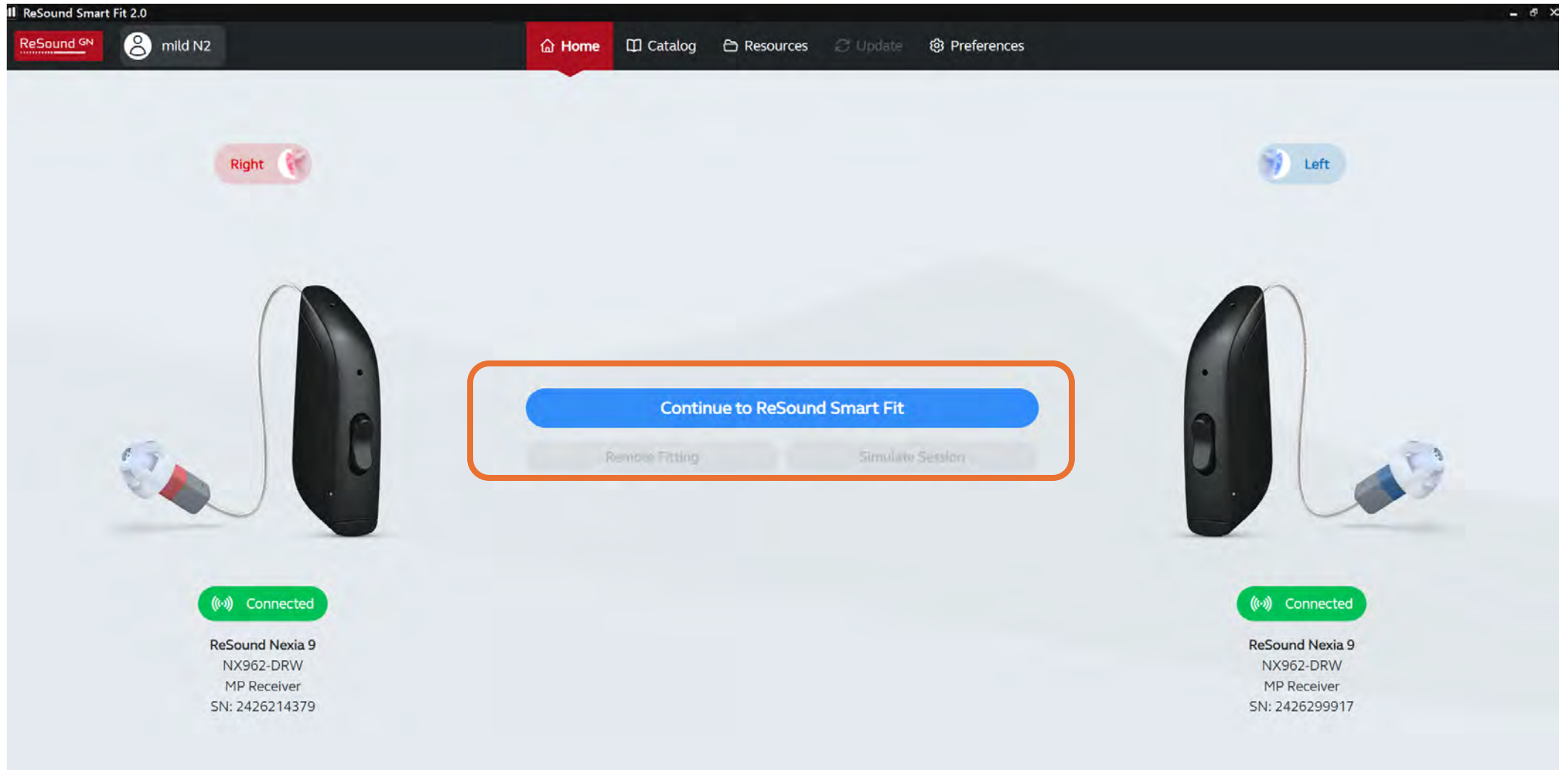
Use Instrument MPO

	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	0	1	4	6	7	7	10	6	6	4
65	0	1	2	3	4	3	6	2	2	1
80	0	0	0	0	0	0	2	-1	0	0
CR	1	1	1.2	1.3	1.3	1.4	1.4	1.3	1.3	1.1
MPO	96	99	100	102	104	107	108	109	110	110

Handles: 6 10

Calibrate DFS Save

Getting to and from Home



Instrument MPO Button

History

- It used to be that the hearing instruments were set to the maximum power output provided by the hardware. Concerns over the years about the high values of the MPO shown on-screen lead to prescribed MPO values. The Prescribed MPO is based on the fitting formula selected.

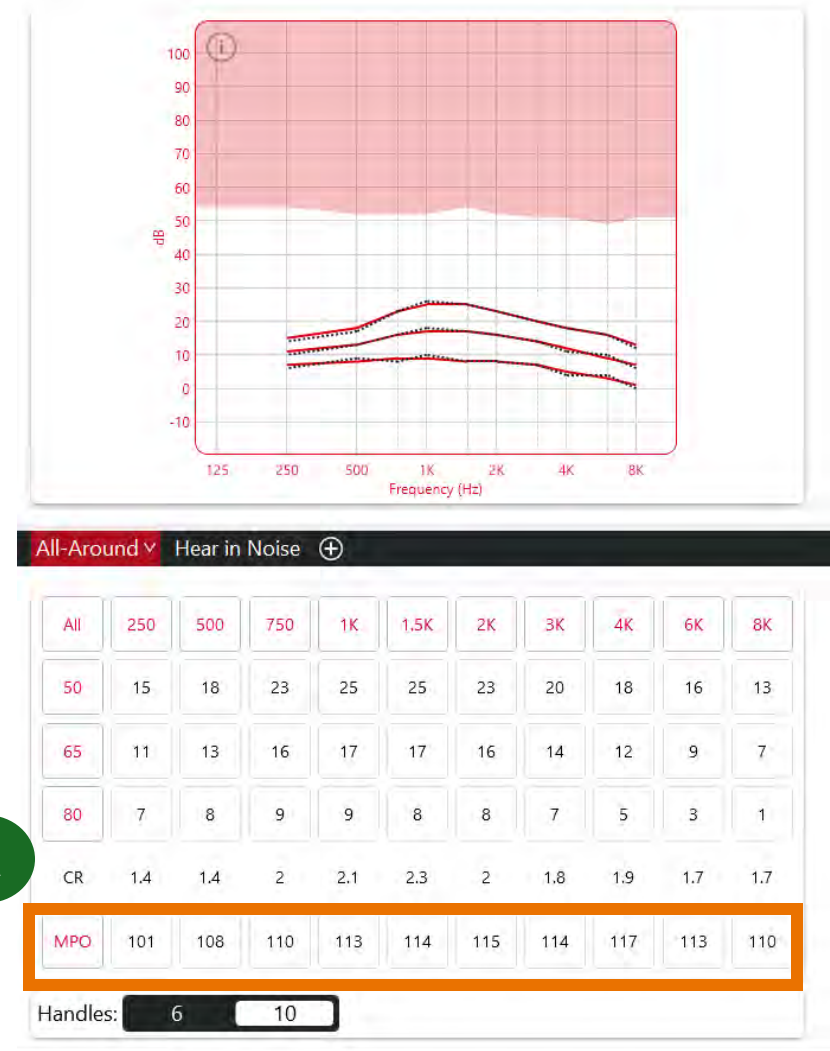
Understanding MPO

- MPO is the highest output a hearing aid can possibly produce and is associated with the receiver. Smaller receivers are associated with lower MPO, and larger receivers with higher MPO. Selecting the appropriate receiver is important for treating the degree of hearing loss without distortion.
- MPO is not achieved in majority of cases. Appropriate gain settings will govern the output. Verified gain prescriptions along with an appropriate receiver will likely not reach MPO.
- MPO is not set based on UCLs. The high input gain is set based on UCLs. The reason we use the high input gain and not the MPO is that adjusting the MPO lower will not achieve the desired results but will cause saturation and therefore distortion.
- A good read! [MPO: A Forgotten Parameter in Hearing Aid Fitting | The Hearing Review](#)

Instrument MPO Button

Understanding MPO

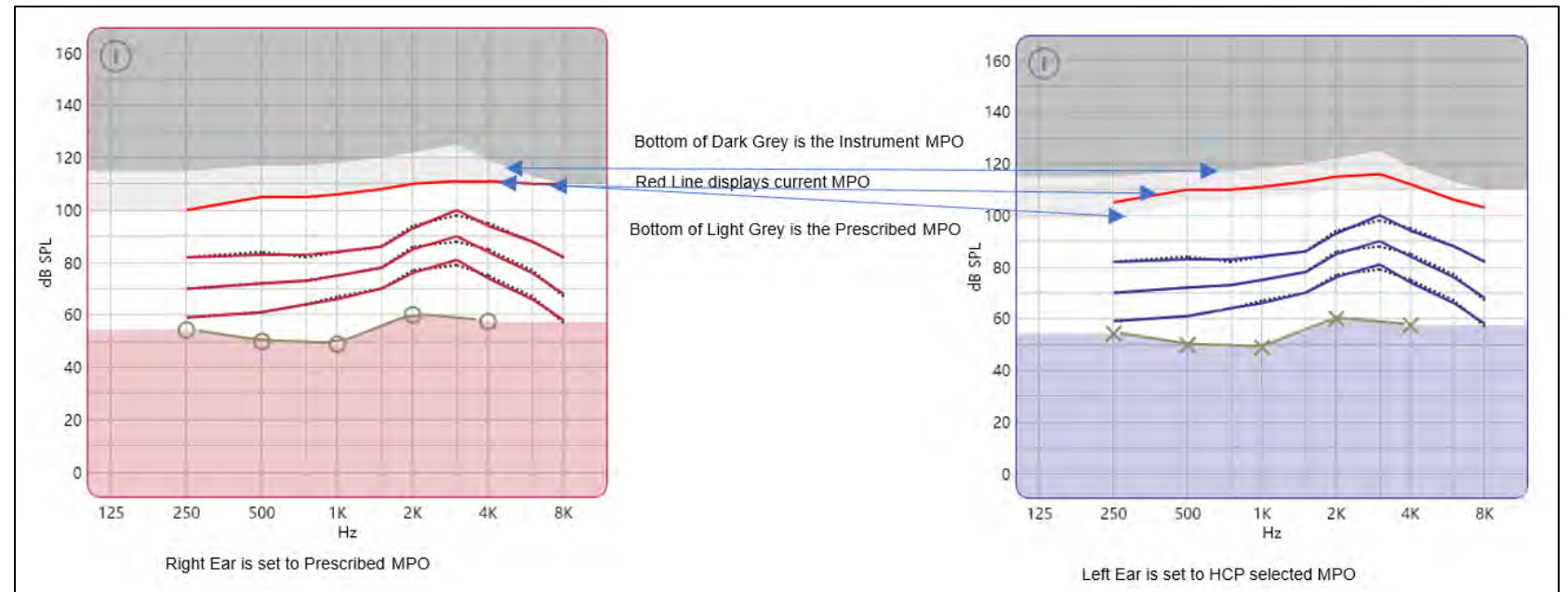
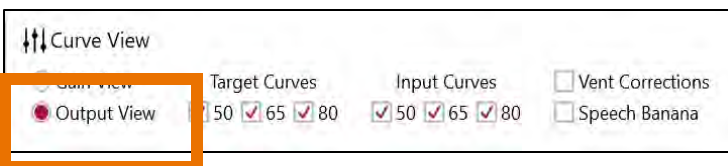
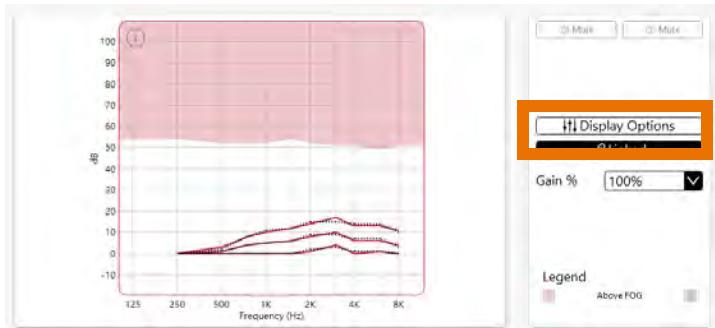
- MPO per frequency is displayed in the gain graph below the 3 input levels in SPL, even in the gain view
- While the values appear high they may need to be increased even more to avoid distortion
 - Example A: 100 dB HL input + 8 dB HL gain = 108 dB HL (116.5 dB SPL). These MPOs are not sufficient for this level of input.
 - Example B: think of the MPO as the roof of a house and the gains as the interior rooms. Ideally the roof should not be the ceiling of the highest story, there should be an attic or layer to provide insulation to avoid discomfort.



Instrument MPO Button

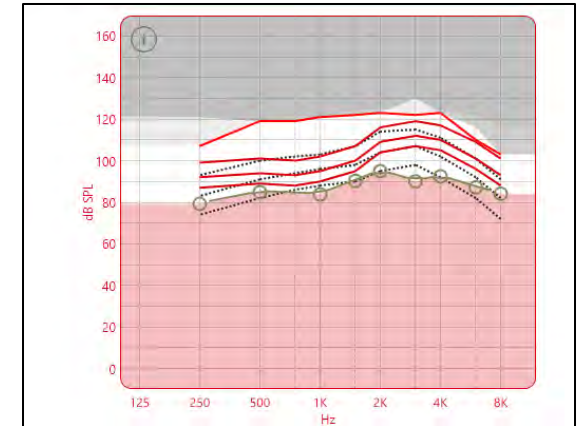
Understanding MPO

- The output view of the graph shows the MPO curve values
- It is important that the gain curves (red and blue) are not close to the current MPO (bright red) curve to avoid distortion
- MPO is prescribed and set to match the edge of the light gray while the instrument MPO is represented by the dark gray edge



Instrument MPO Button

- Use Instrument MPO when..
 - When the gain curves are close to prescribed MPO curve, best visualized in output view
 - Fitting those with greater hearing loss, small dynamic range
 - Selected receiver or power level cannot be changed/increased
 - Patient complaint that hearing aid is not loud enough, muffled, or unclear
 - Before making large gain increases including changes to “louder” fitting rules
 - Setting a music program

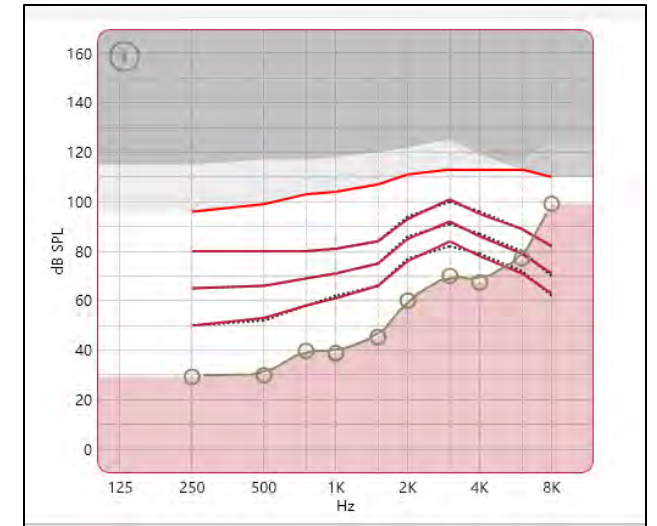


The interface shows two identical control panels. Each panel has a grid of buttons for frequency (All, 250, 500, 750, 1K, 1.5K, 2K, 3K, 4K, 6K, 8K) and gain (50, 65, 80) settings. Below the grid are 'CR' and 'MPO' buttons. At the bottom of each panel is a 'Handles' slider set to 6 and 10. In the center, a vertical arrow with numbers 1, 2, 3 and a 'Use Instrument MPO' button are highlighted with an orange box.

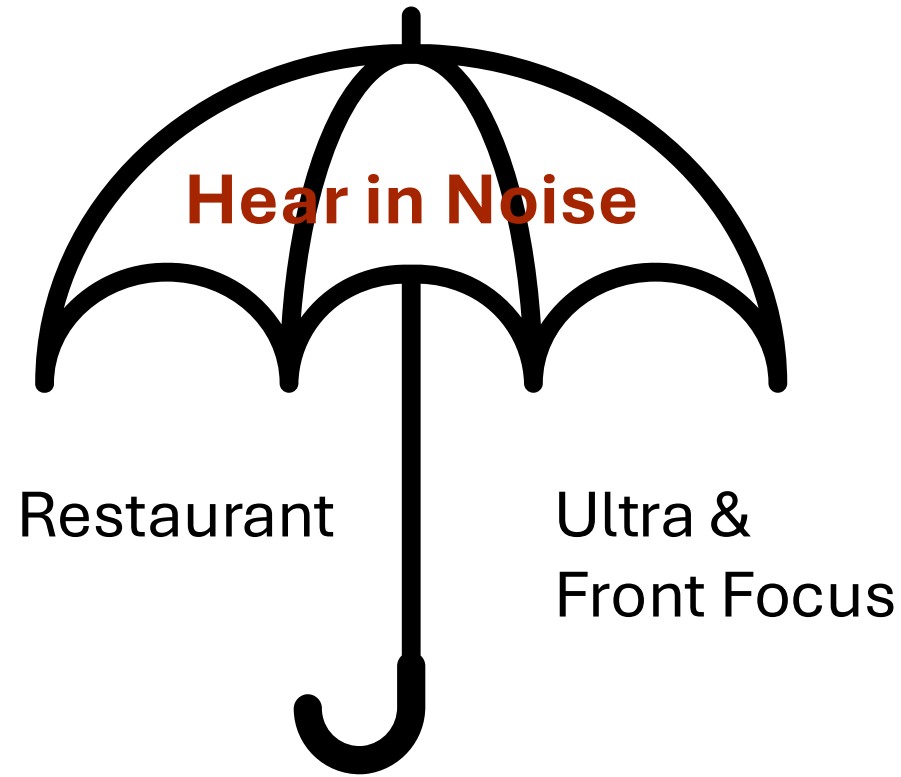
Instrument MPO Button

After pressing Use Instrument MPO

- Setting to instrument MPO does not mean you cannot go back and does not mean that you must. The patient will not be injured by loud sound if the hearing aid is set appropriately for the loss.
- click MPO value(s) and use up/down arrows to increase/decrease the MPO values for the chosen frequency(s). Set the MPO to the bottom of the light grey region on the Output view.



Environmental Optimizer II in Hear in Noise program environment



Environmental Optimizer II in Hear in Noise program environment

- New fittings get new settings!
- Designed for complex environments with heavy noise reduction efforts



Aided gain in AutoREM

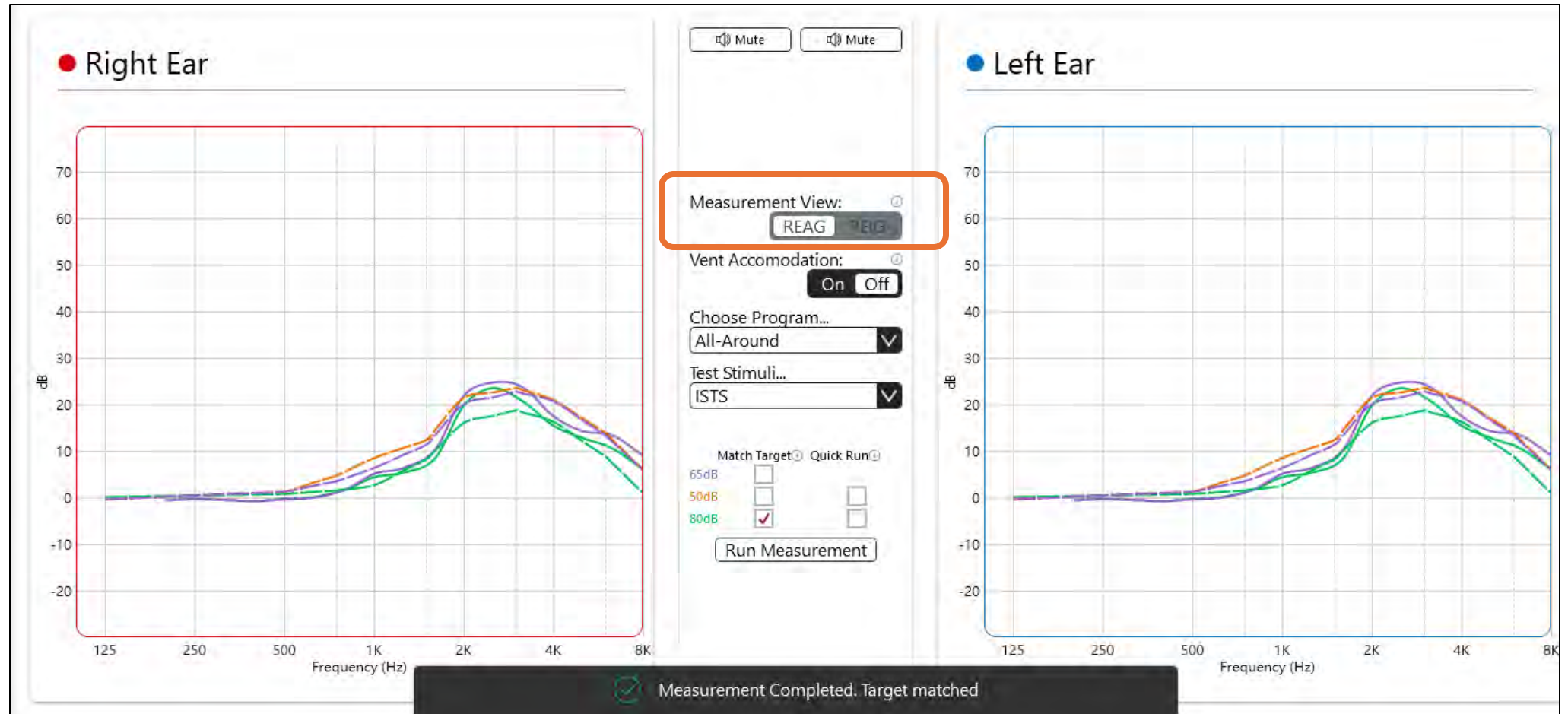
History

- autoREM has been part of fitting software since Aventa and had been enhanced several time to remain current
- While REM as always been a part of best practice, aided or insertion gain measurements fall in and out of fashion

Understanding REAG in autoREM

- REAG = Real Ear Aided Gain
- Insertion gain (REIG) was the only measurement offering, the aided curves are available only in the REM module output file after AutoREM is completed
- Unaided gain (REUG) is no longer required
- A good read! <https://canadianaudiologist.ca/real-ear-measurement-feature/>

Aided gain in AutoREM



Beyond the fitting software

- Non-rechargeable customs
- CROS compatible BTE
- App enhancements
 - Accessory selection
 - Accessory pairing and removal
 - Accessory naming

Non-rechargeable customs



- 312 zinc air
- new design and removal of the MI radio allows for a smaller ITC
- Adaptive Directionality and Soft Switching are the main directionality solutions

Ear-2-Ear	Bluetooth Auracast	MFi /Android	Wireless Accessories
Control Sync (PB and VC)	✓	✓	✓



Non-rechargeable customs

Smallest & near-invisible



Completely-in-Canal (CIC)

Non-Wireless
10A

Small & connected



In-The-Canal (ITC)

Wireless
312

Full-featured & rechargeable

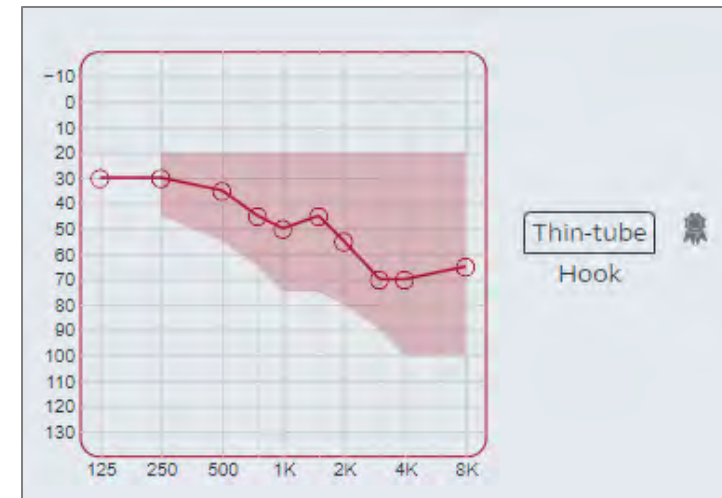


ITC / In-the-Ear (ITE)

Wireless
Rechargeable

CROS compatible BTE

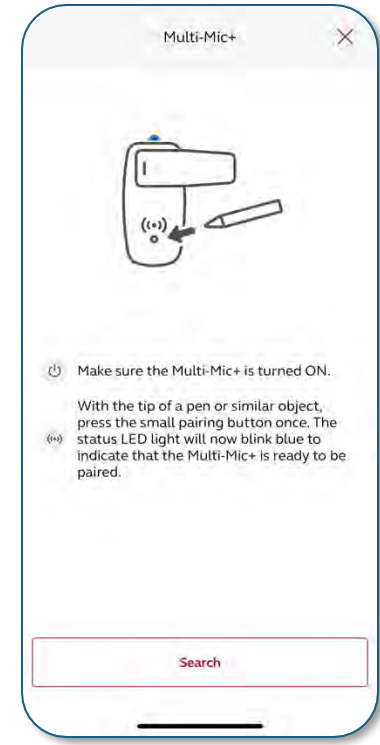
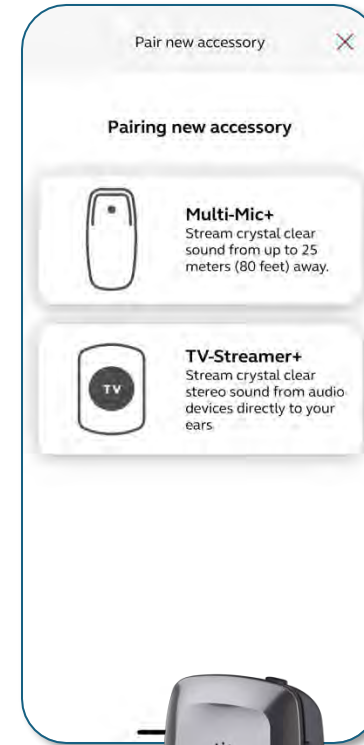
- Addition of a BTE CROS to the existing RIE CROS system
- Can be used with receiver as a rechargeable custom or another



Form factor	RIE 60S	RIE 62 / 61	BTE 88 / 77	ITE DWC	ITC-DW	CIC
RIE CROS	✓	✓	✗	✗	✗	✗
BTE CROS	✗	✗	✓	✓	✗	✗

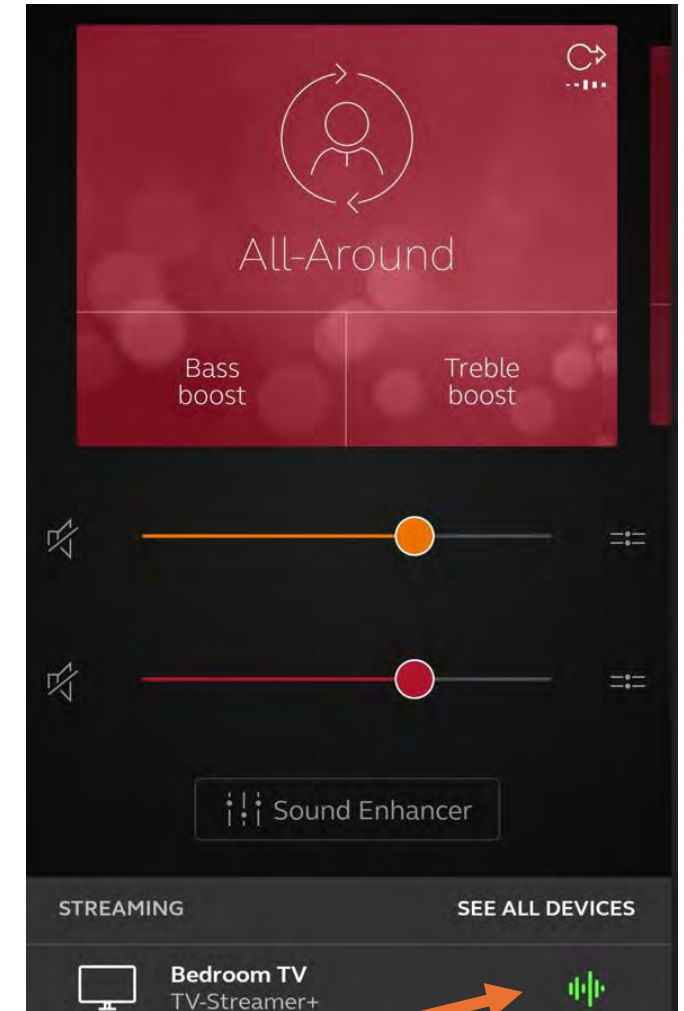
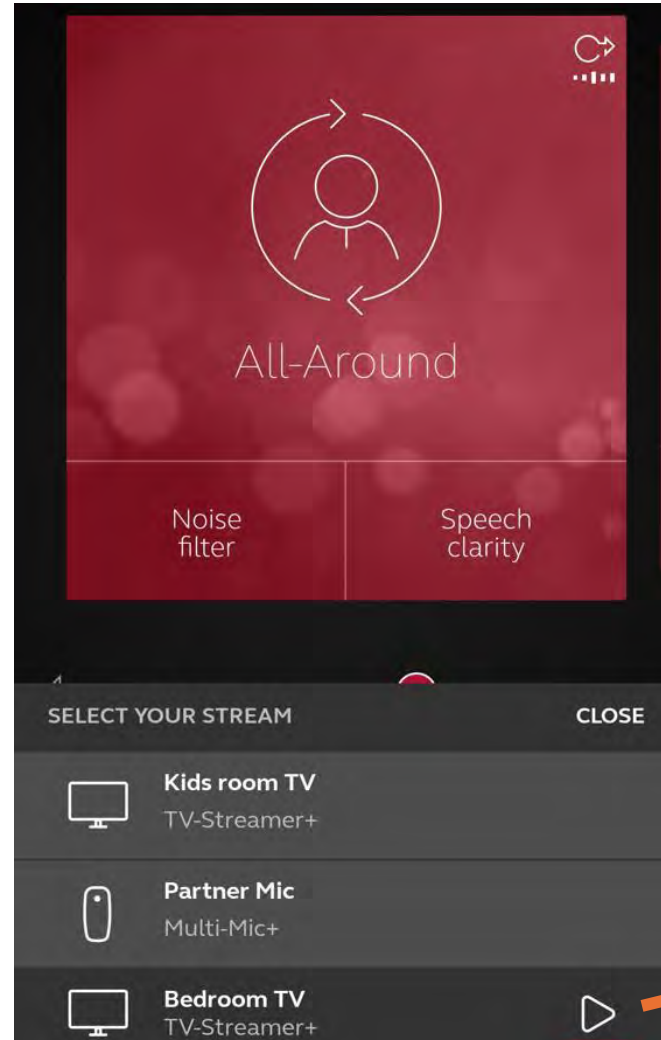
App Improvements

- Improved App/Accessory pairing flow with new generation accessories
- The pairing flow consists of two steps:
 - **Step 1:** Pairing accessory to the APP, including Bluetooth pairing between phone and accessory.
 - **Step 2:** Checking whether pairing between HI and accessory has been done. If not, app will guide user how to do OneTouch pairing.
- Accessory pairing can also be removed via the app



App Improvements

- See accessory names
- Select stream
- Start and stop stream
- See active streaming – “When the green squiggles are showing, the stream is flowing.”



Summary & Review Qu's

The 2.0 Journey.... In review

- Home screen & design research
 - HCP input is an important part of design and purpose
 - The Home screen is a call to action and the start of getting you what you need upfront, outside the session
- Fitting screen
 - You can always go back home
 - MPO is your friend
 - Hear in Noise now includes Environmental Optimizer II ON by default
 - You can choose REIG or REAG in AutoREM
- Beyond the software
 - New hardware solutions of Non-rechargeable customs and BTE CROS transmitter
 - Variety of app solutions providing visual confirmation

Qu 1: if the Use Instrument MPO button is pressed

- a. It is not possible to return to prescribed MPO
- b. Output values for loud inputs will match MPO
- c. Those with loudness sensitivities will become uncomfortable
- d. The allowance for the output of the instrument has increased to max, however with appropriate prescribed gains with level will likely not be reached

Qu 2: The Instrument MPO button can be helpful to prevent distortion, particularly

- a. When a smaller receiver size is preferred, or the output is nearing the prescribed MPO
- b. When a smaller receiver size is preferred, or the compression speed is set to slow
- c. For those fittings with Tinnitus Sound Generator active
- d. For open fittings

Qu 3: If in the Hear in Noise program the patient reports audible gain shifting in calm environments

- a. Remove the Hear in Noise program immediately
- b. Remind them to change out of Hear in Noise when in not in dynamic noisy environments
- c. Set the adjacent environment sliders to closer values
- d. B and/or C

Qu 4: The BTE CROS transmitter can now be used along with a

- a. Another transmitter
- b. A non-rechargeable custom
- c. BTE
- d. Products older than Nexia

Qu 5: The new Smart Fit Home screen is part of a larger effort to

- a. Put fitting software on a tablet
- b. Have only 3 buttons on-screen
- c. Keep the installation size the same for each release
- d. Bring elements of the fitting that are more useful upfront

Qu 6: AutoREM now offers the option to see what measurement during the target matching process?

- a. REAG
- b. REOG
- c. Custom targets
- d. REUG

Qu 7: Which app feature helps with visualizing the system's state and performance?

- a. Musical notes when music is streaming
- ☐ b. The green squiggles showing the stream is flowing to the selected accessory
- c. A stop sign when streaming as stopped
- d. An airplane for airplane mode

THANK YOU!

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