

Pro Fit 201

A Deeper Look at Starkey's Newest Fitting Software

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EDUCATION & TRAINING AUDIOLOGIST

Webinar FAQs

Pro Fit 201

Keeley Layfield, Au.D.

How to Ask a Question:

- Click Q & A, type your question, and Send

Resources Tab:

- Download the course handout
- Link to course information page
- View presenter information

How to view captions:

- Click Show Caption CC Button

How to earn CEUs:

- After the webinar, go to your Pending Courses and pass the multiple-choice exam

For assistance or tech support:

- Call 866-782-9924
- customerservice@audiologyonline.com
- Use the Q&A window

Learner Outcomes

1

Identify how patient
UCL data affects the
MPO curves within
Pro Fit

2

Discuss acoustic
considerations of open
versus
closed fittings

3

Identify how to adjust
Consonant Brightness
within Pro Fit



Starkey **Pro Fit**

DESIGNED BY Professionals,

FOR Professionals

Starkey Pro Fit



Organized

3 session types providing access to the most used screens



Intuitive

No need to assign a hearing aid as right and left



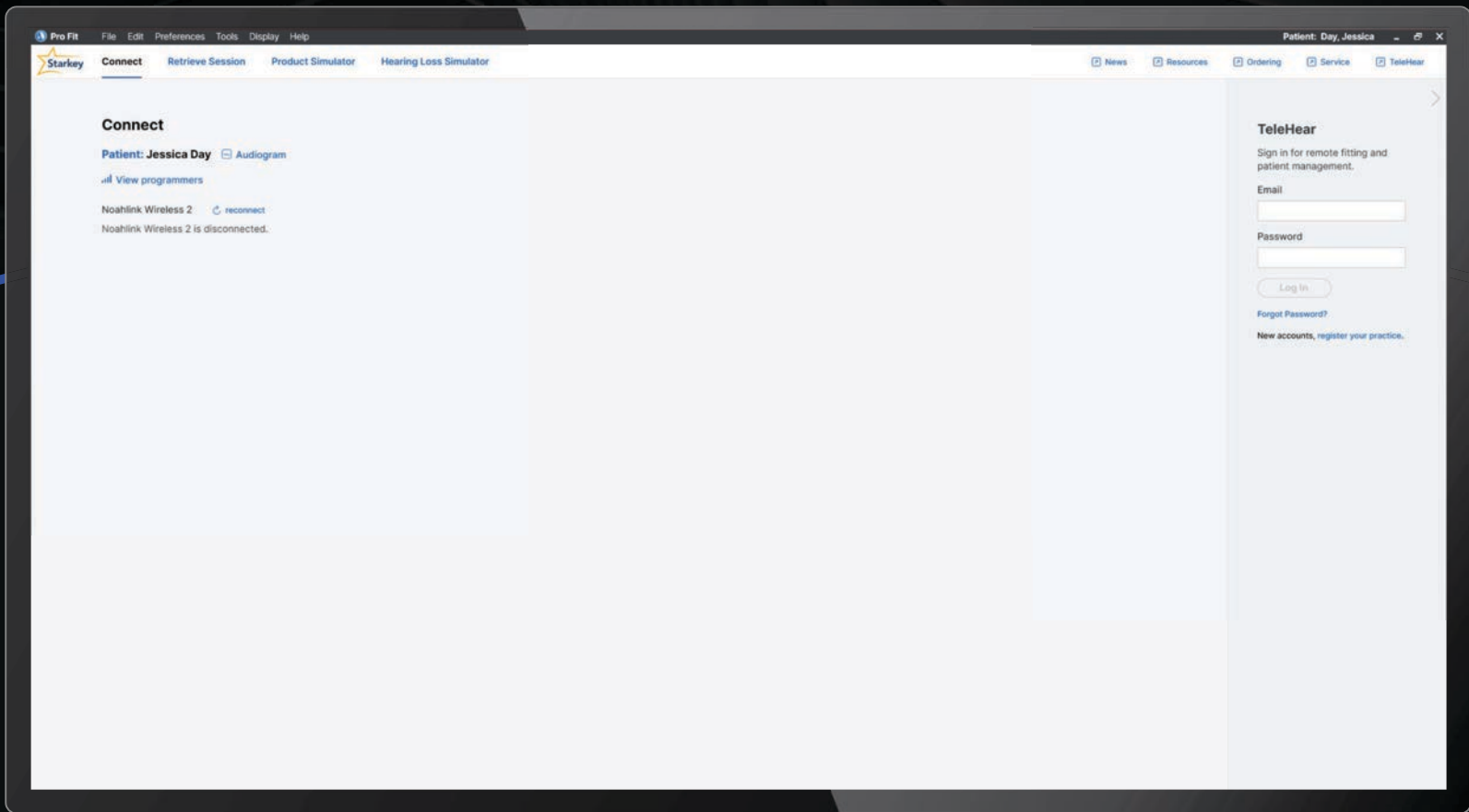
Efficient

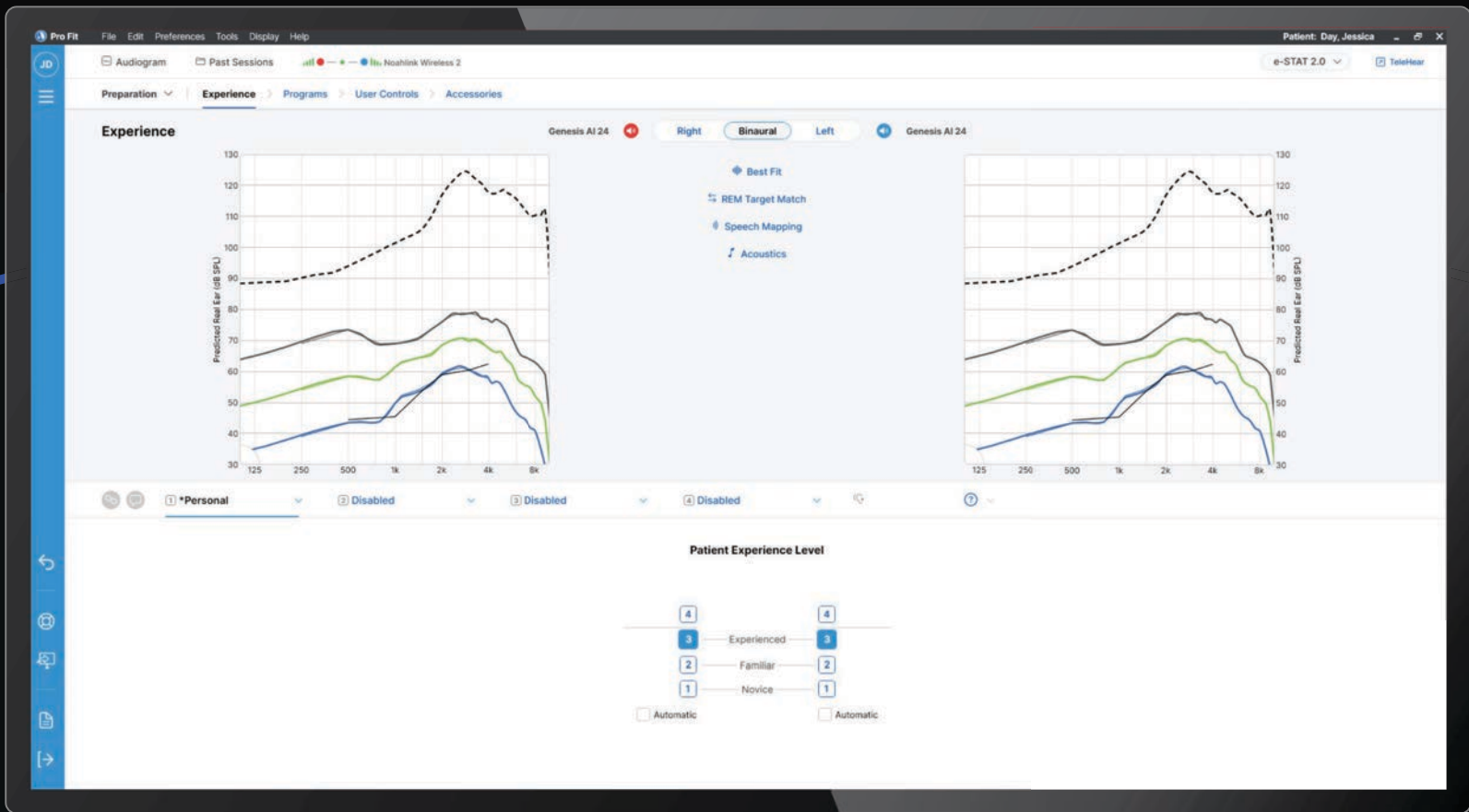
Box to best fit in four clicks

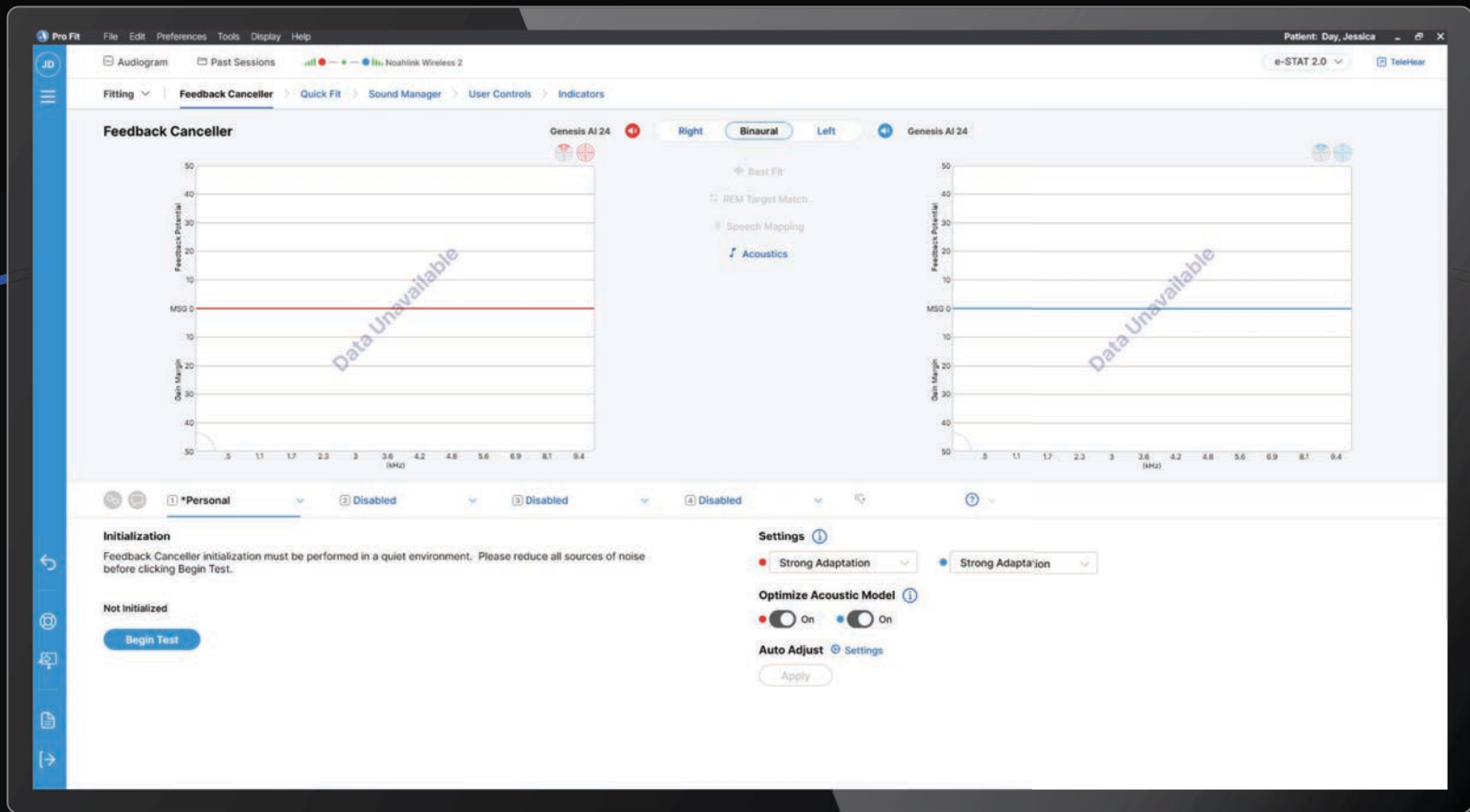


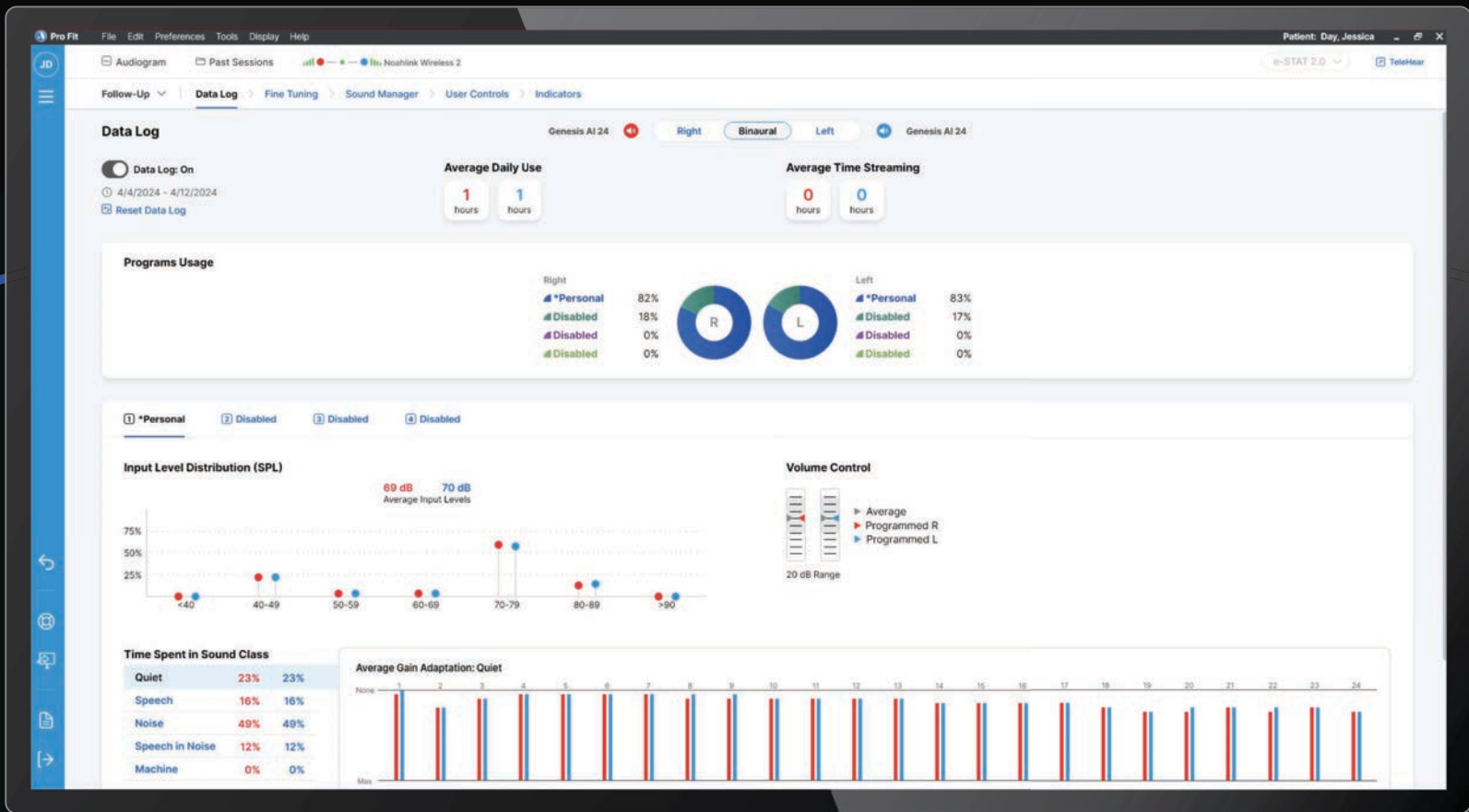
Supportive

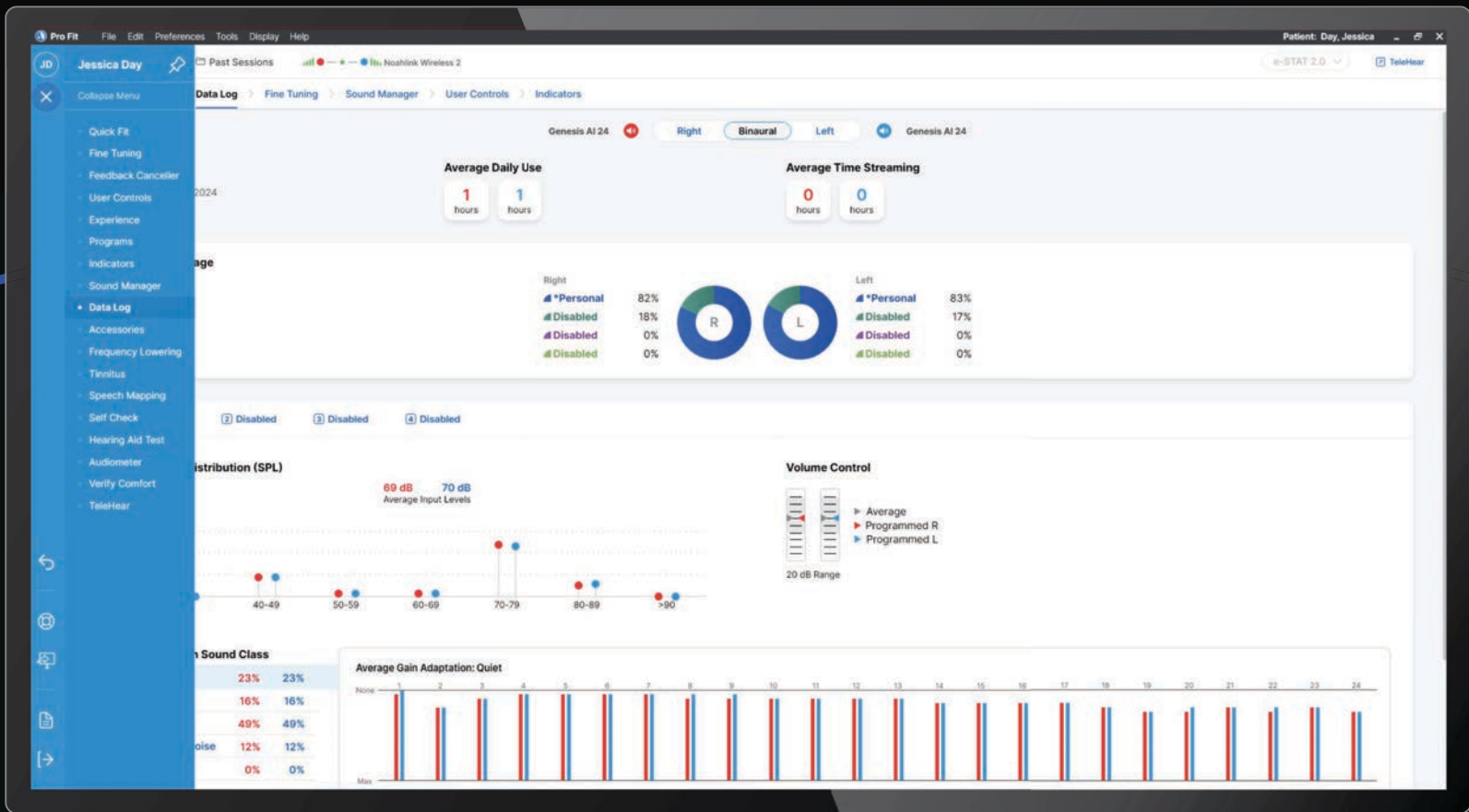
Access to tools such as Troubleshooting from any screen











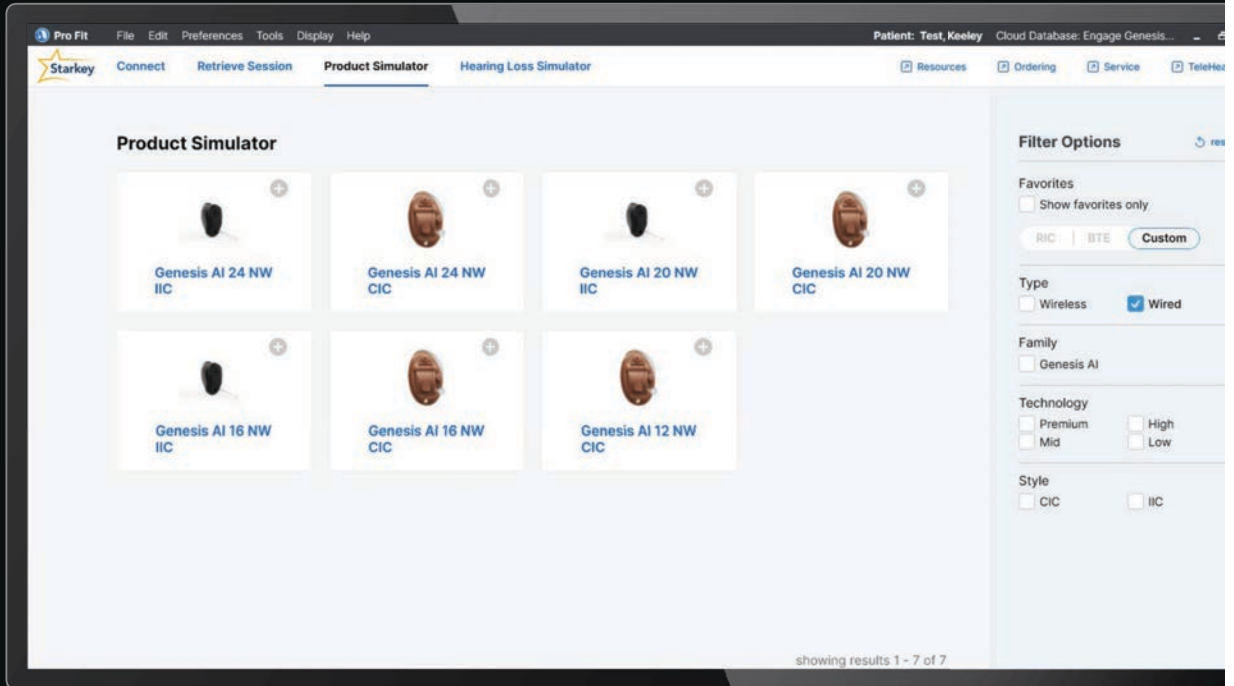
Product Simulator

Simulate filtering
allows for:

RIC

Custom Wireless

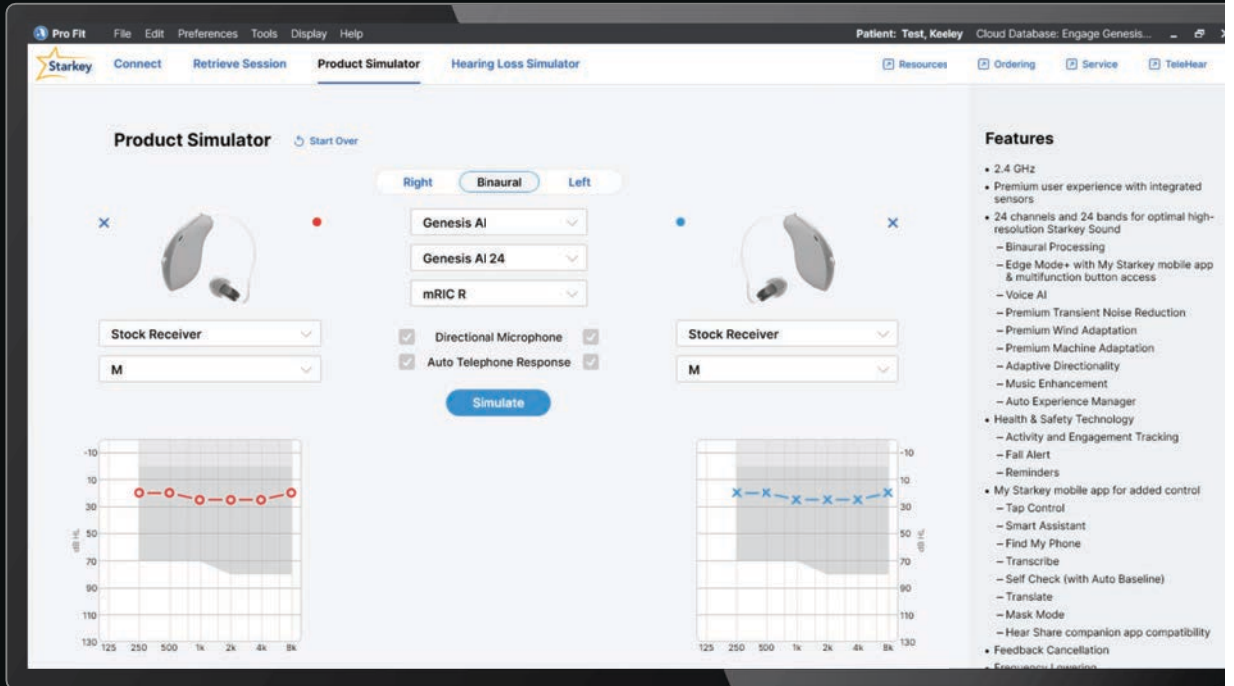
Custom Non-Wireless

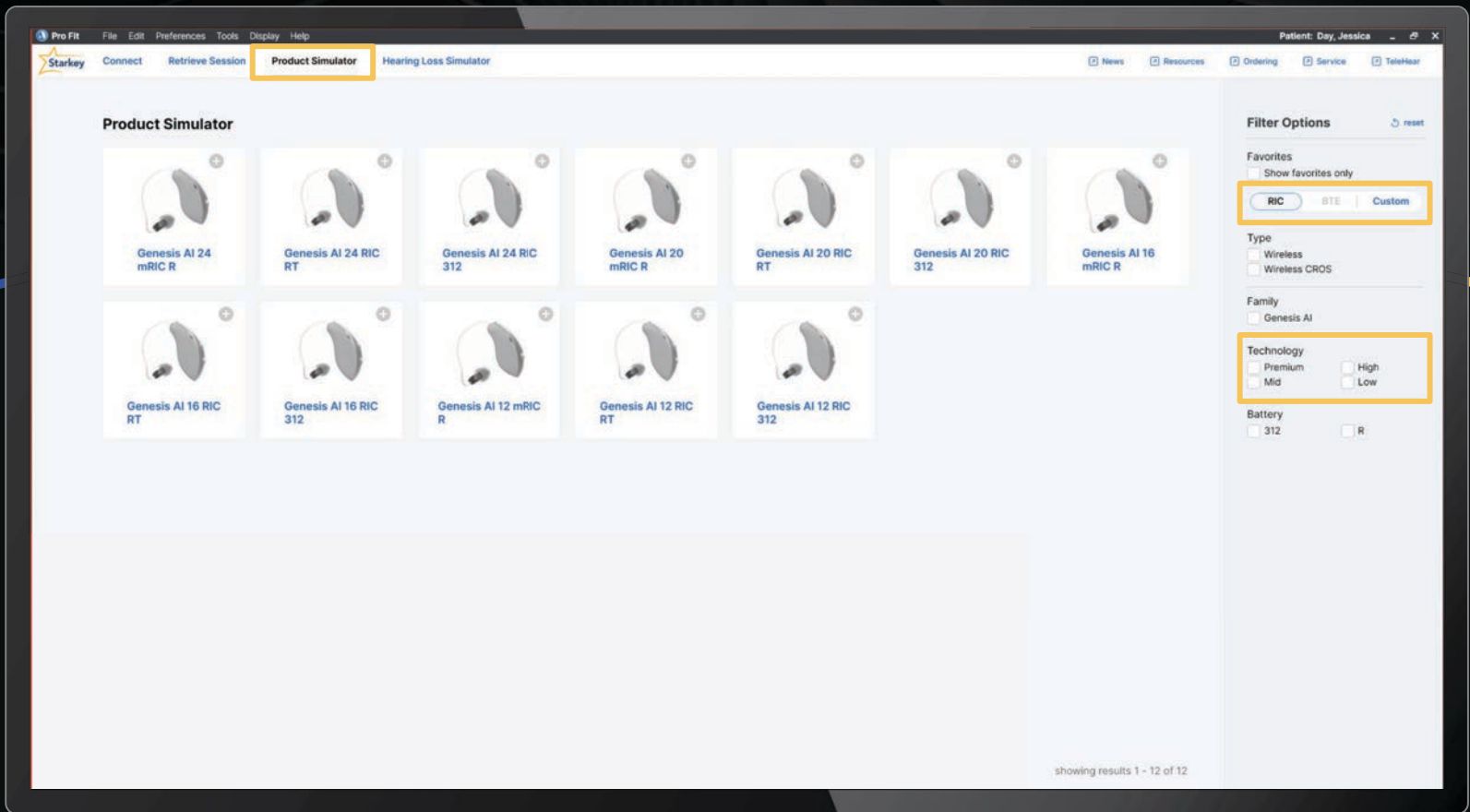


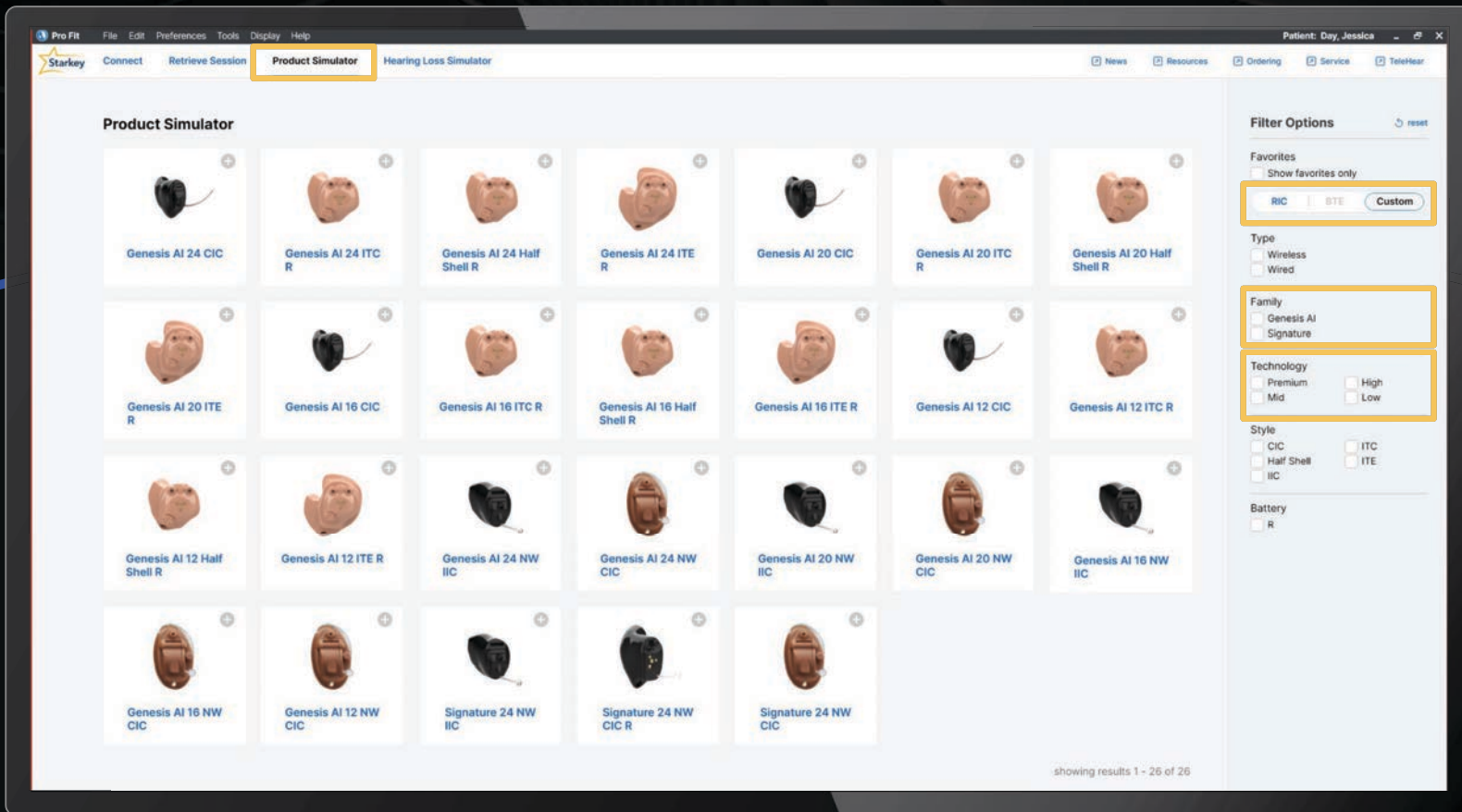
Product Simulator

Simulate any Pro Fit compatible product

Full features associated with simulated product down the right side of the screen





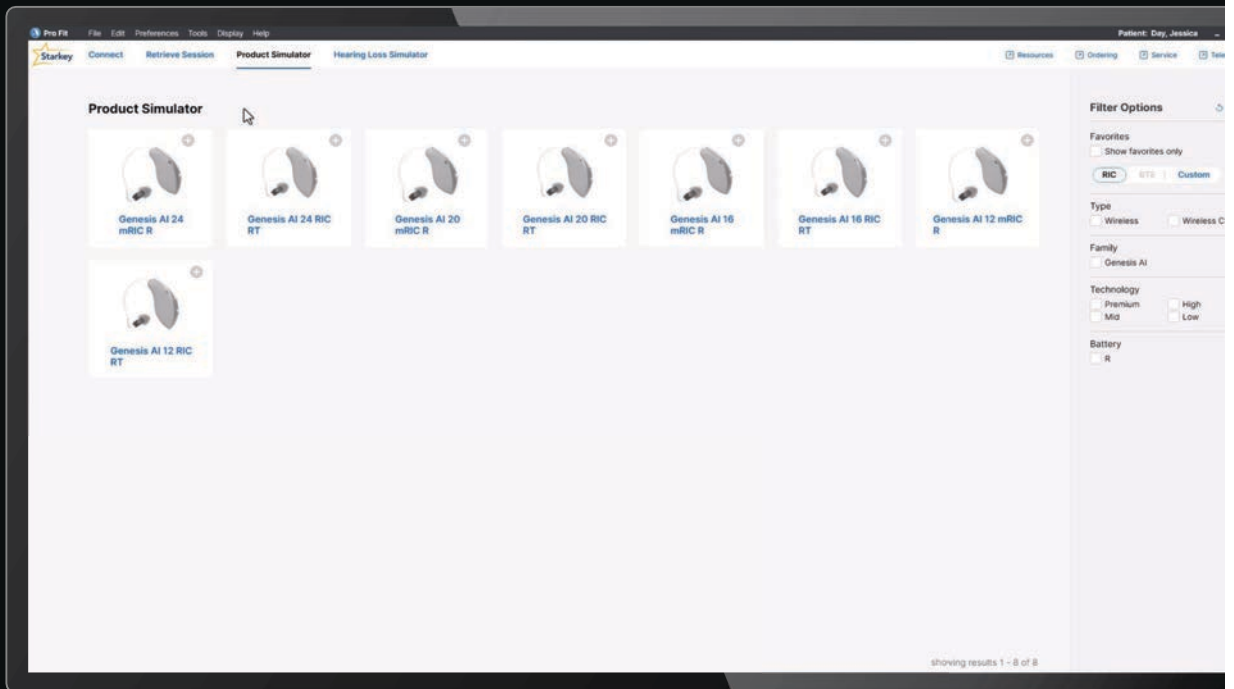


Product Simulator

Compare two different tech levels

- RIC to RIC
- Wireless Custom to Wireless Custom
- NW Custom to NW Custom

See which features are specific to which device



Acoustic Condidérations



Stock vs. Custom

Stock Molds

Three styles of stock molds in high-strength silicone

- 1) Hollow
- 2) Solid
- 3) Helix



1.



2.



3.



Stock vs. Custom

Stock Domes

Three styles of stock domes in medical grade silicone in various sizes

- 1) Open
- 2) Occluded
- 3) Power

Stock vs. Custom

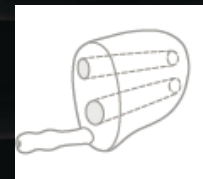
Custom Molds

Multiple styles and materials options include

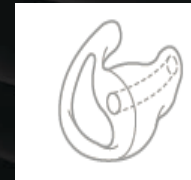
- 1) Helix Molds
- 2) RIC Molds
- 3) Custom Cased Molds



Helix



Canal



Skeleton



Canal Lock

Custom Considerations

Choosing the Right Matrix

2000 Hz

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110



(woofer)

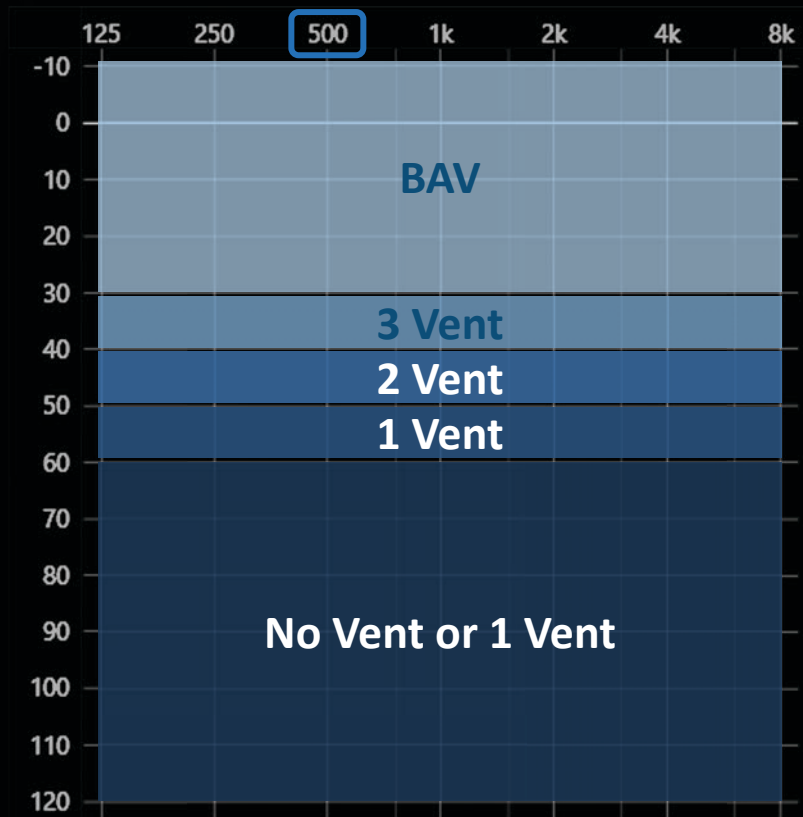
Hearing threshold
at 2000 Hz is pivotal
for receiver selection

Speech MCL
Preferred loudness helps
with receiver choice

Speech UCL
Tolerance measurement
helps with receiver choice

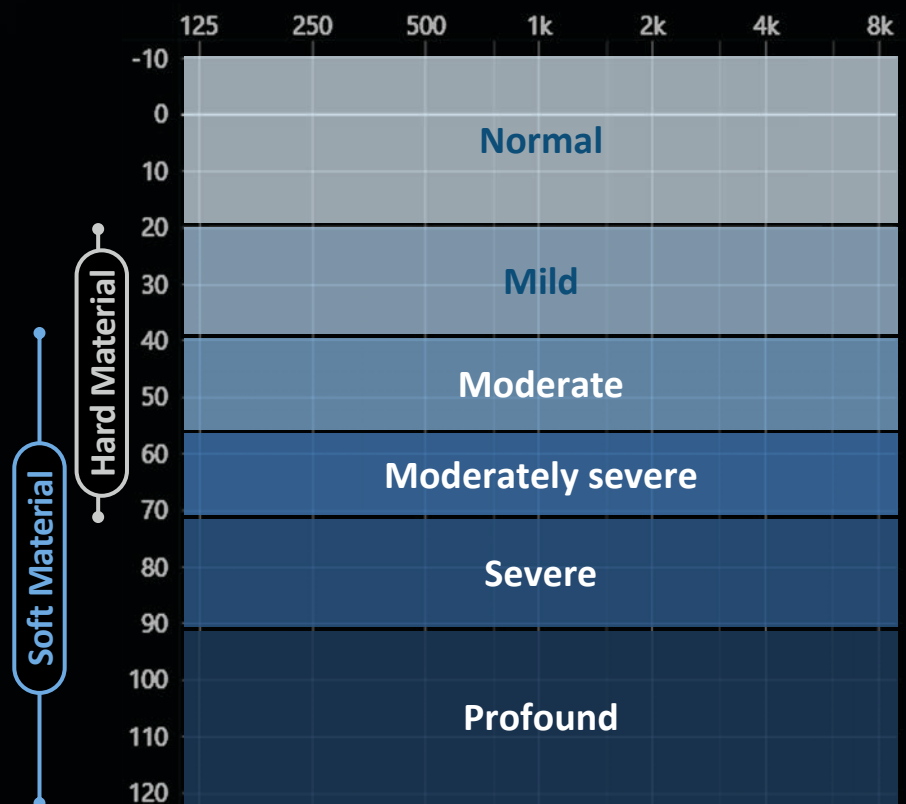
Vent Selection

The diagram illustrates five different hearing aid models, each shown in a side profile view. The first three models are labeled '1 Vent', '2 Vent', and '3 Vent', and they feature a large, circular, orange-colored vent. The fourth model is labeled 'BAV' and has a smaller, circular, orange-colored vent. The fifth model is also labeled 'BAV' and has a very small, circular, orange-colored vent. The models are arranged in a row, with the first three being larger and the last two being smaller.



Earmold Material

- Selection depends on hearing loss and gain and output requirements
- **Hard Material** is suitable for mild to moderately-severe
- **Soft Material** is suitable for moderate to profound hearing loss
- If sloping audiogram, use PTA (pure-tone average of 500, 1000, and 2000 Hz)



Advanced Fitting Tools



Best Fit & Target Match

Best Fit:

Best Fit frequency response and features

Target Match:

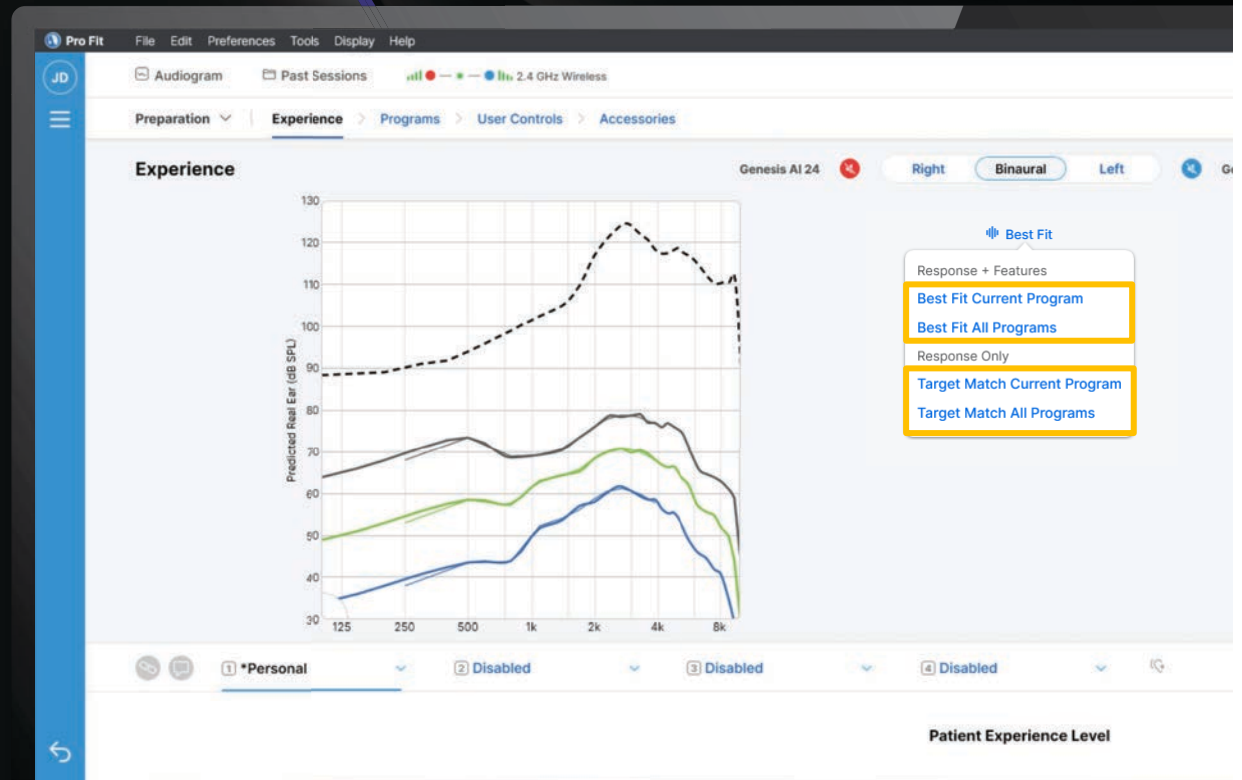
Target Match frequency response

Current Program:

only adjusts selected program

All Programs:

adjusts all programs within the hearing aids



Starkey **Pro Fit**

Fitting Precision



Feedback
Cancellation

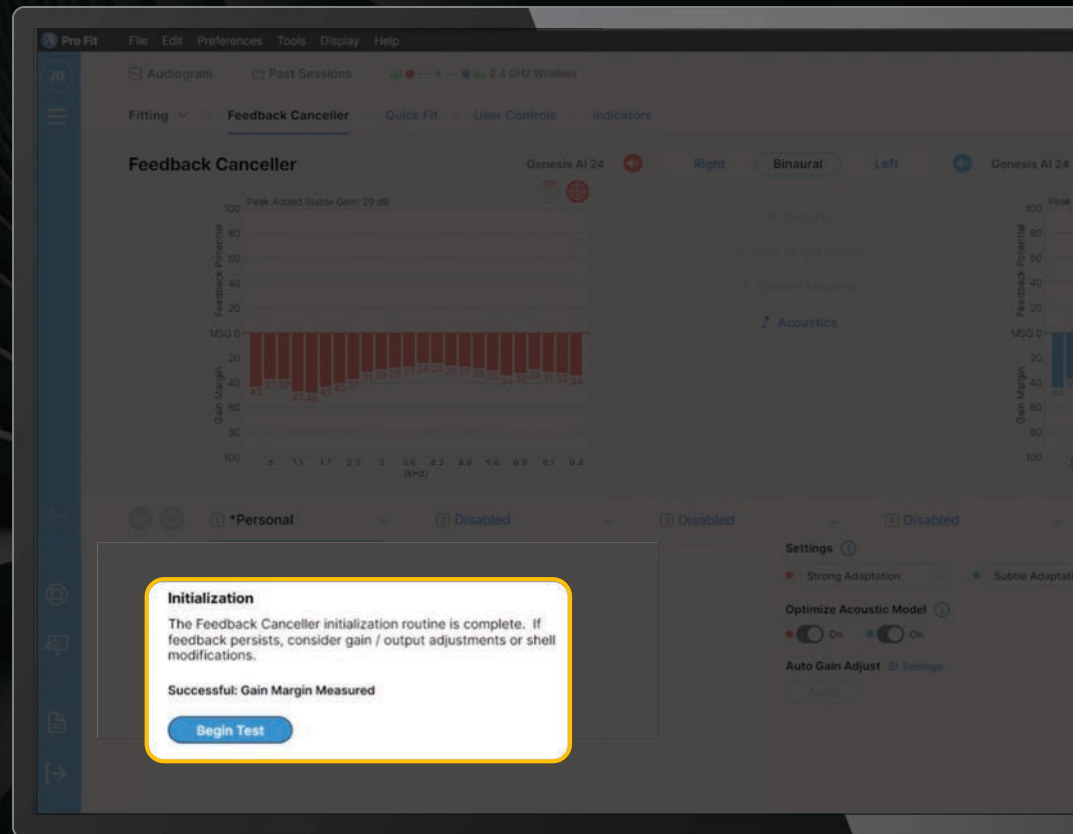


Optimize
Acoustic Model

Two unique features for personalizing the hearing aid fitting using the Feedback Cancellation Initialization (FBCi) measurement

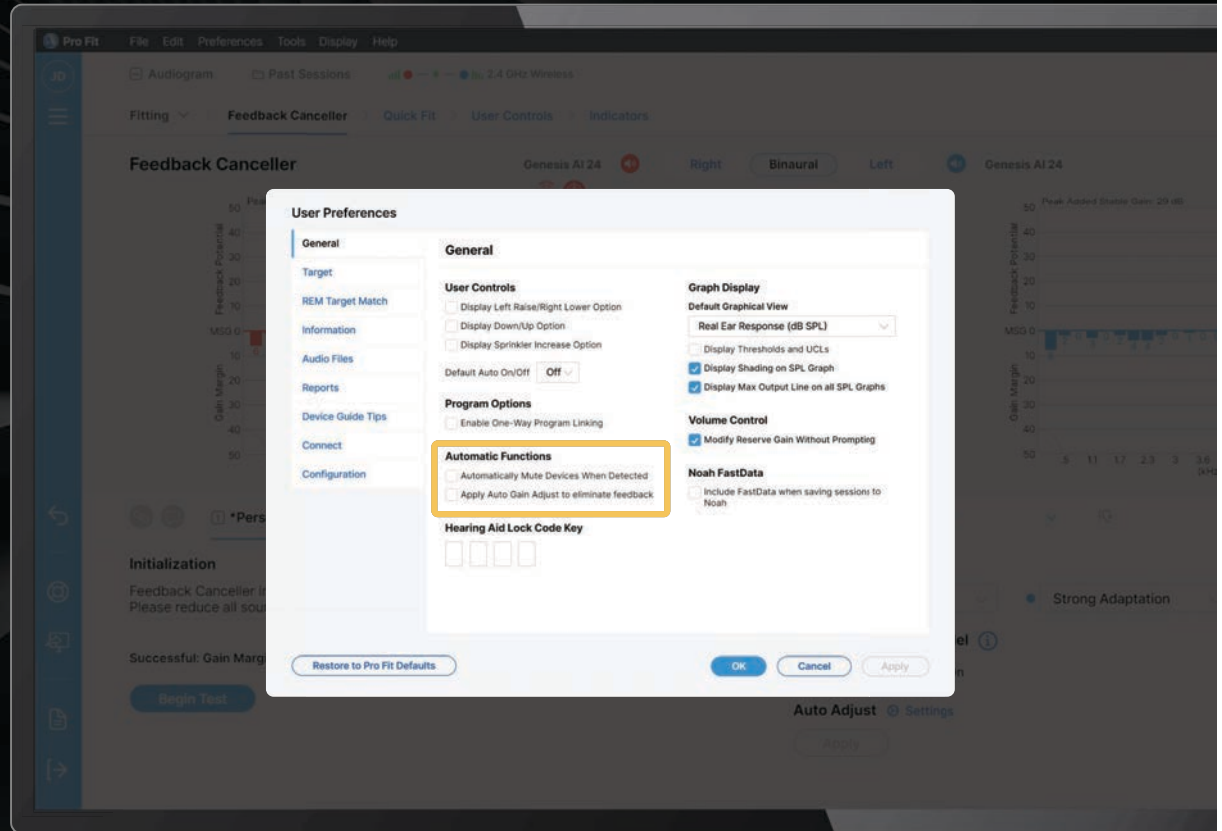
Feedback Celler

The Feedback Celler initialization stimulus will slowly increase to the presentation level



Feedback Cancellation

Additional Feedback Cancellation options to ensure your patients are achieving maximum audibility with no feedback

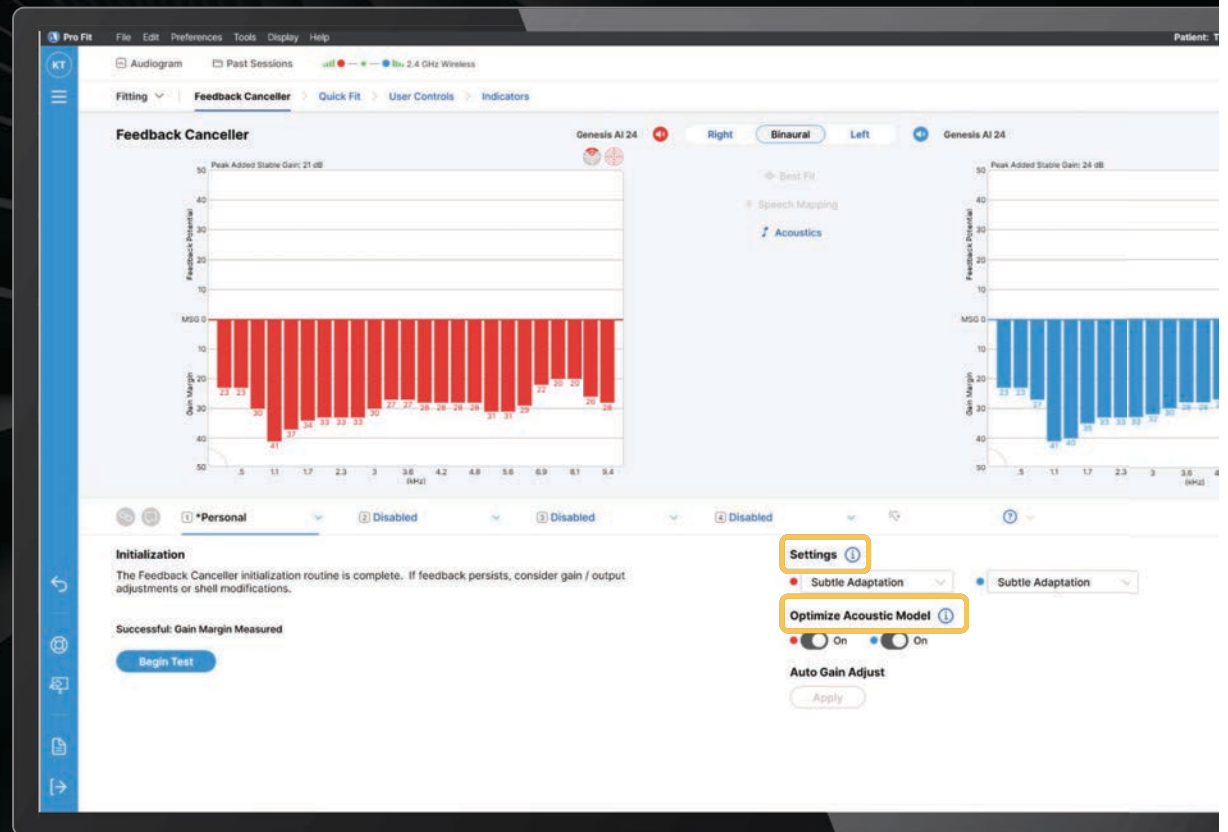


Feedback Celler

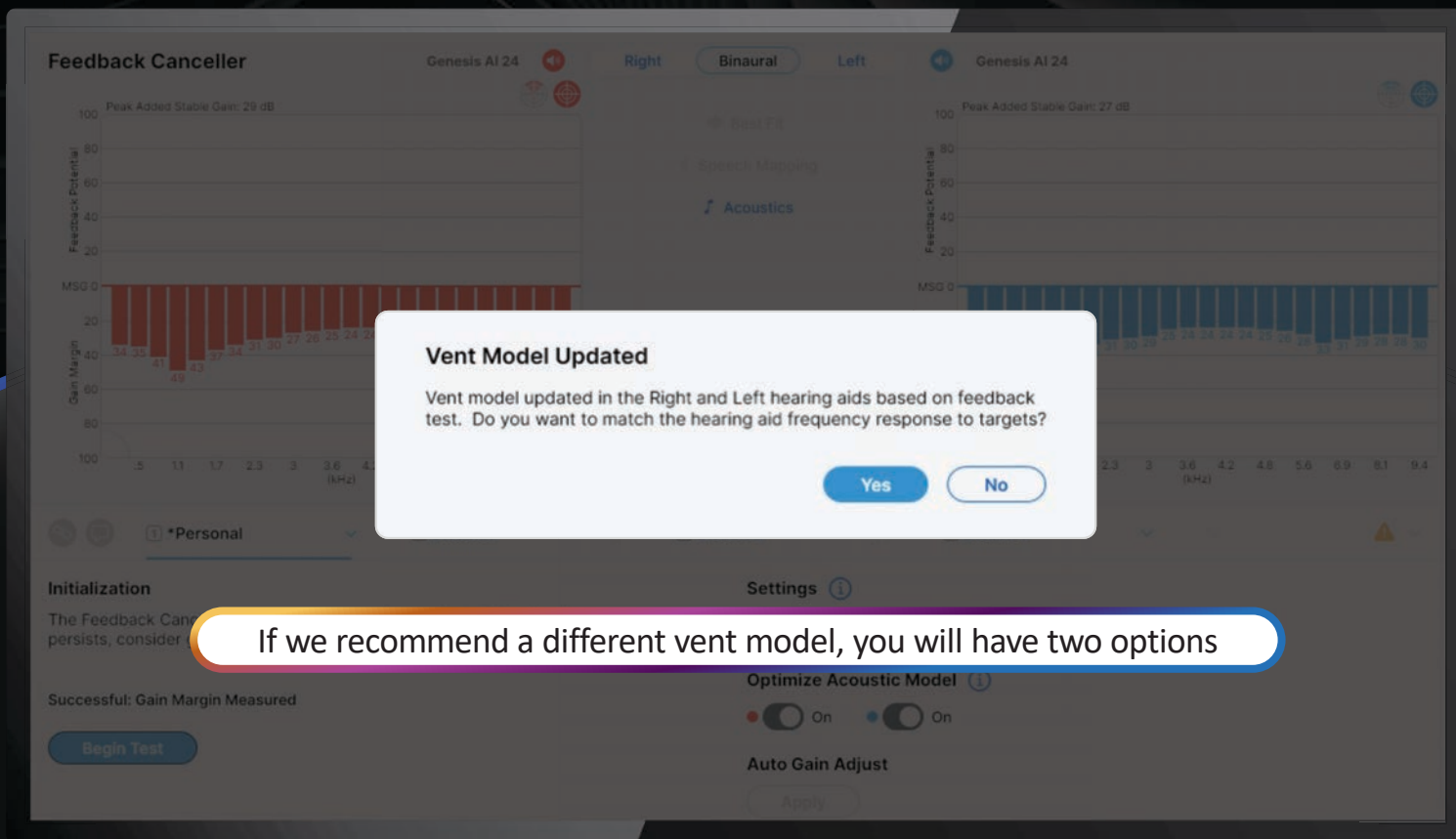
Adaptation Settings

- Strong for vented and occluded fittings
- Subtle for open fittings

Optimize Acoustic Model

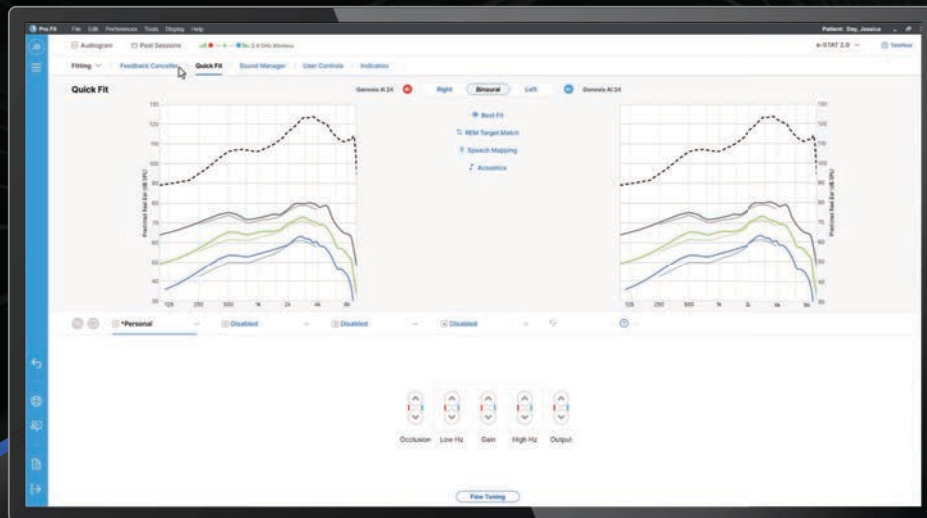


Optimize Acoustic Model

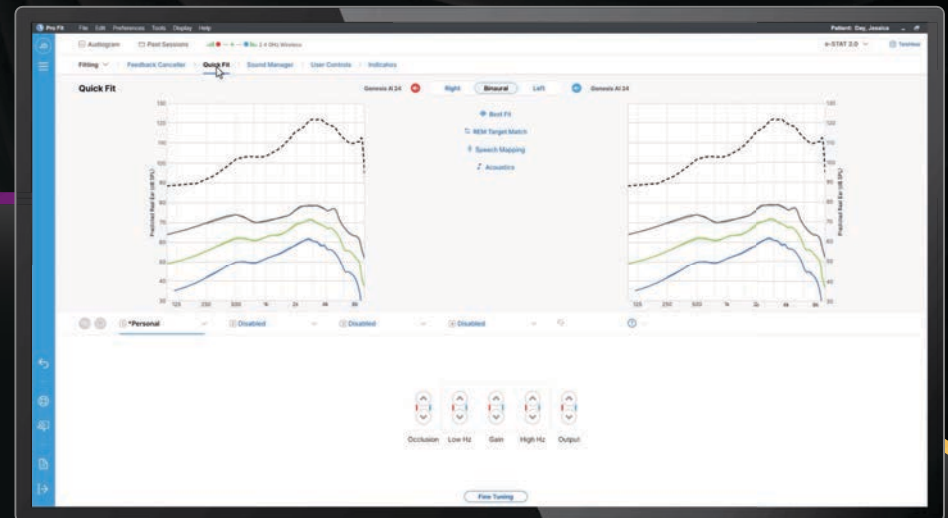


If we recommend a different vent model, you will have two options

Optimize Acoustic Model



If you select NO
Mismatch in vent optimized
targets and frequency response



If you select YES
Vent Modeled targets and
frequency response match

Fitting Precision



Frequency
Lowering



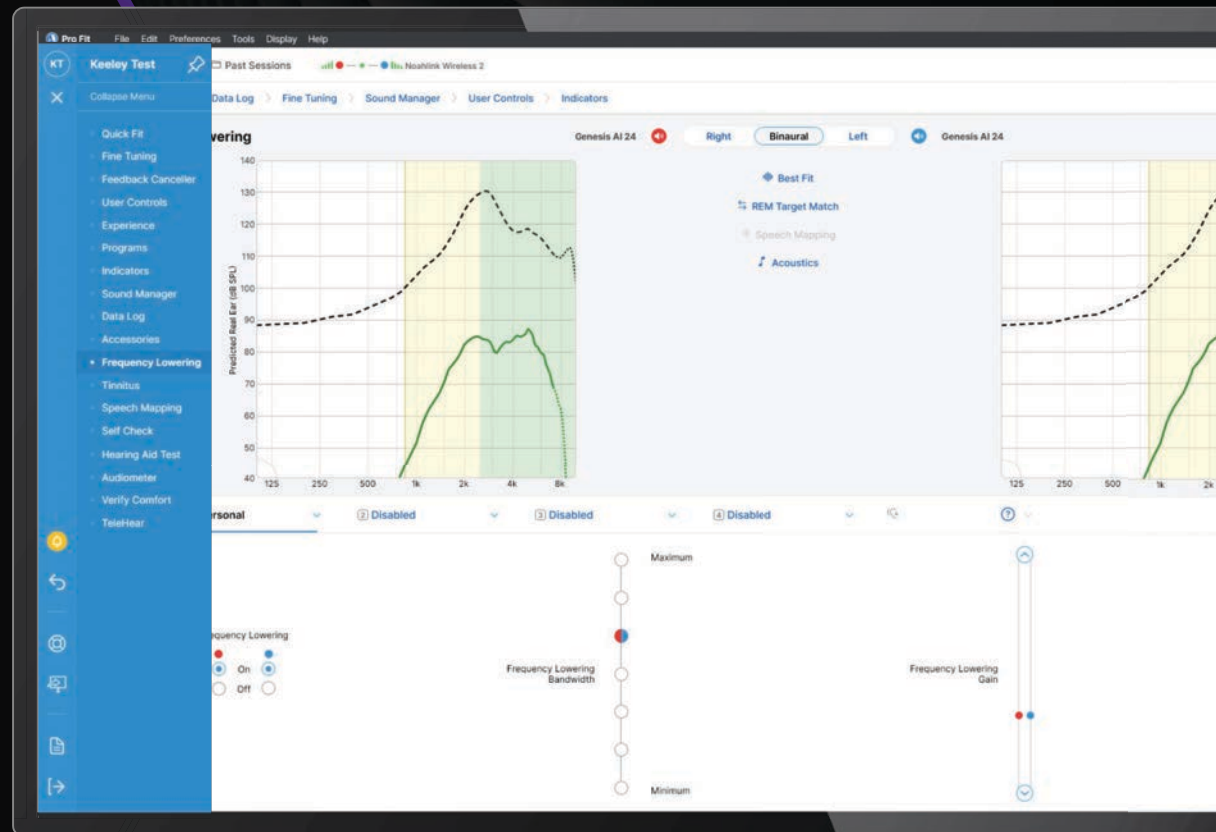
Tinnitus

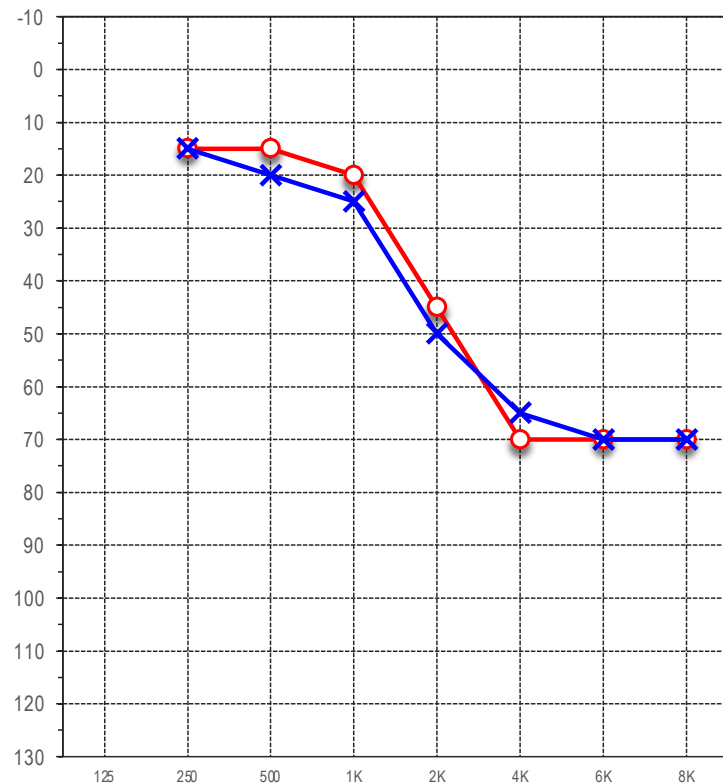
Two Unique features for increasing audibility for high-frequency speech sounds
through frequency translation and unique tinnitus masking solutions

Frequency Lowering

Defaults on when Smart Candidacy criteria is met

Can be managed from the frequency lowering screen





Smart Candidacy Criteria

All thresholds below 1000 Hz are 55 dB or better

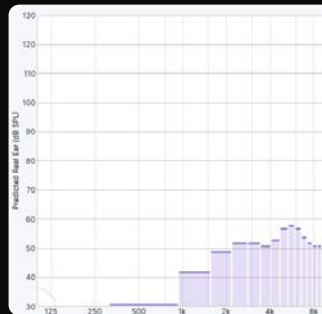
Slope is > 25 dB per octave/interoctave between 250 Hz – 4000 Hz

Any threshold between 1000 Hz – 3000 Hz is 55 dB or worse

All thresholds between 4000 Hz – 8000 Hz are 55 dB or worse

Multiflex Tinnitus Pro

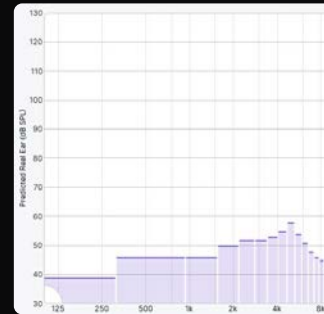
Personalized Sound Therapy for Tinnitus Management



WHITE NOISE

Signal level based on PTA
and comprised of equal
energy distribution
across frequencies

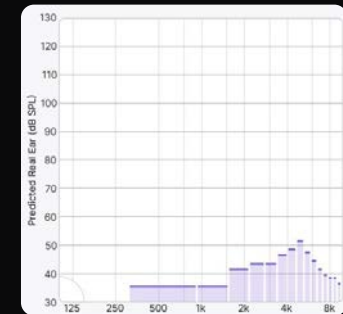
All Styles and
Technology Tiers



AUDIOGRAM- SHAPED NOISE

Automatic shaping of the
tinnitus stimulus **based on**
the hearing loss

All Styles of the
24, 20, and 16
Technology Tiers



CUSTOM NOISE

Custom shaping of the
tinnitus stimulus **based on**
MDLs and MMLs

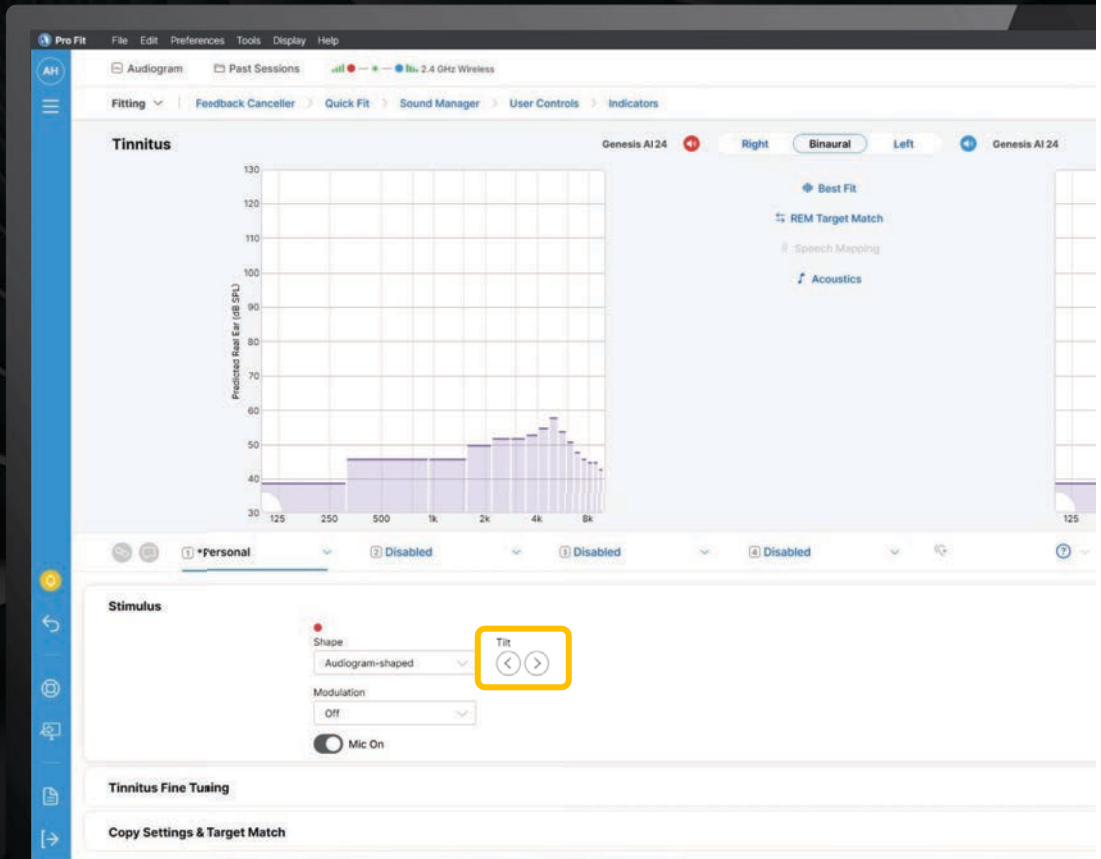
All Styles of the
24 and 20
Technology Tiers

NEW

Tilt Control

Changes the shape and loudness of the masker

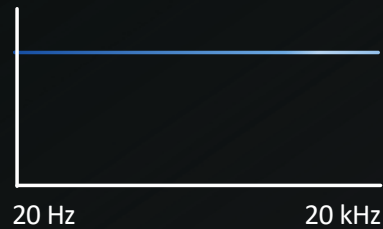
Adjusts gain as a function of frequency



More Masking Flexibility

Colors of Noise

White Noise



Fans



TV static



Vacuum Humming

Pink Noise



Light Rain



River



Wind

Brown Noise



Rumbling Thunder



Waterfall



Heavy Rainfall

Sound Manager



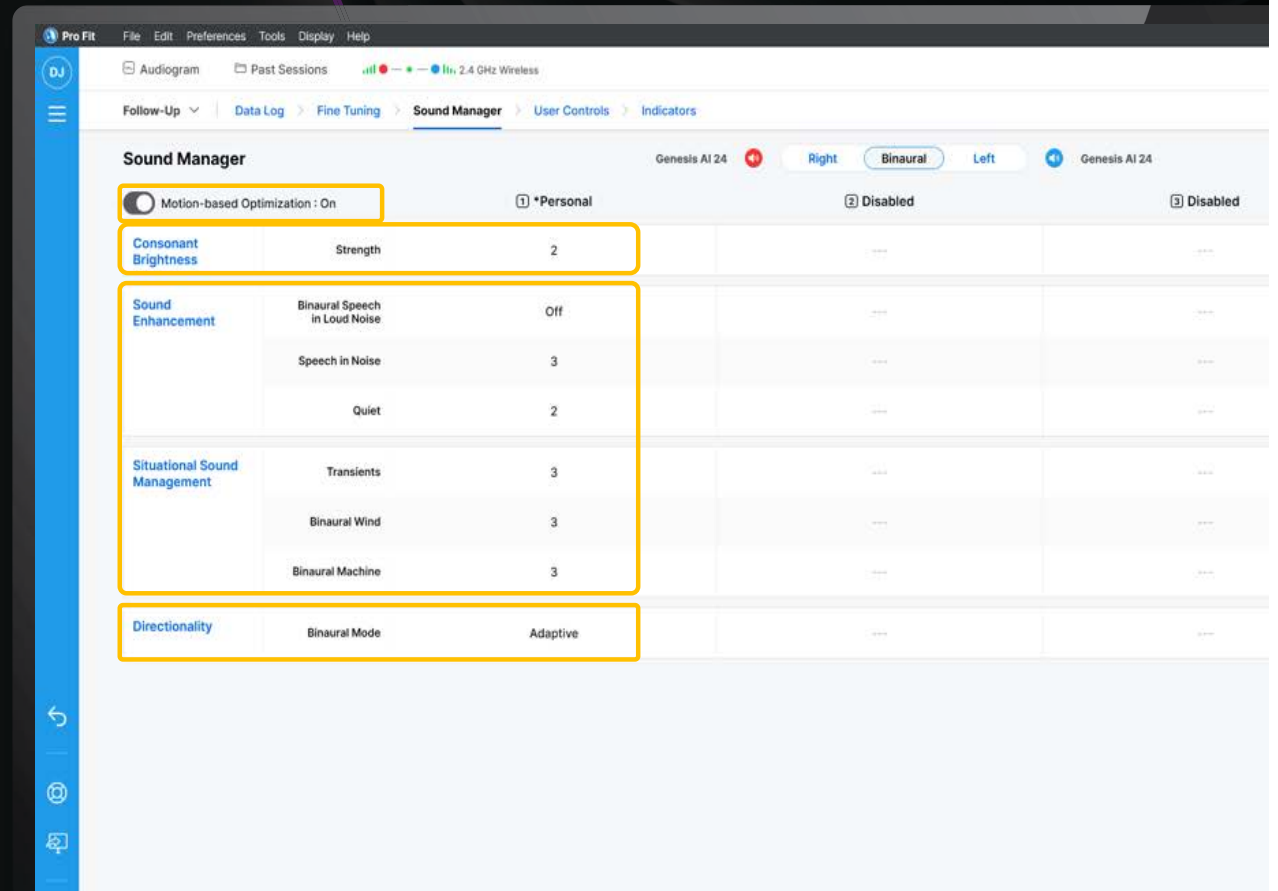
Sound Manager

Motion-Based
Optimization Controls

Consonant Brightness
Controls

Algorithm Controls

Directionality Controls



NEW

Motion-Based Optimization

Small movements that impact the hearing aid placement, like chewing or putting on glasses or a hat, will activate our renowned feedback cancellation system to be at its most aggressive

EXCLUSIVE
24
TECHNOLOGY



Improved Feedback Management

10% greater
gain margins

to prevent feedback during activity



NEW

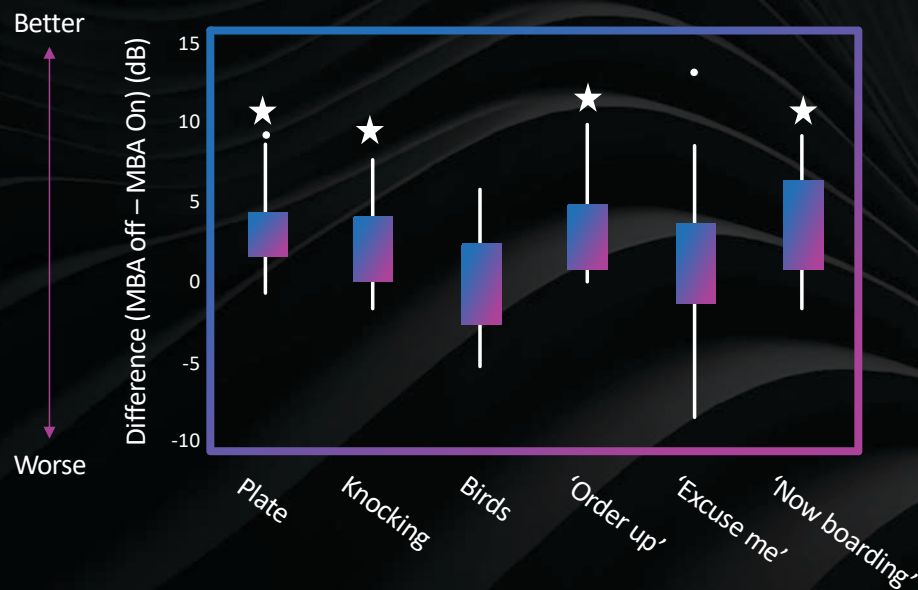
Motion-Based Optimization

When activity-based motion, like walking or running, is detected, the microphones will switch to omni-directional to ensure more situational awareness and the best listening experience

EXCLUSIVE
24 & 20
TECHNOLOGY



Difference in Signal to Noise Ratio Needed to Hear Targets with and without Motion-Based Adaptation

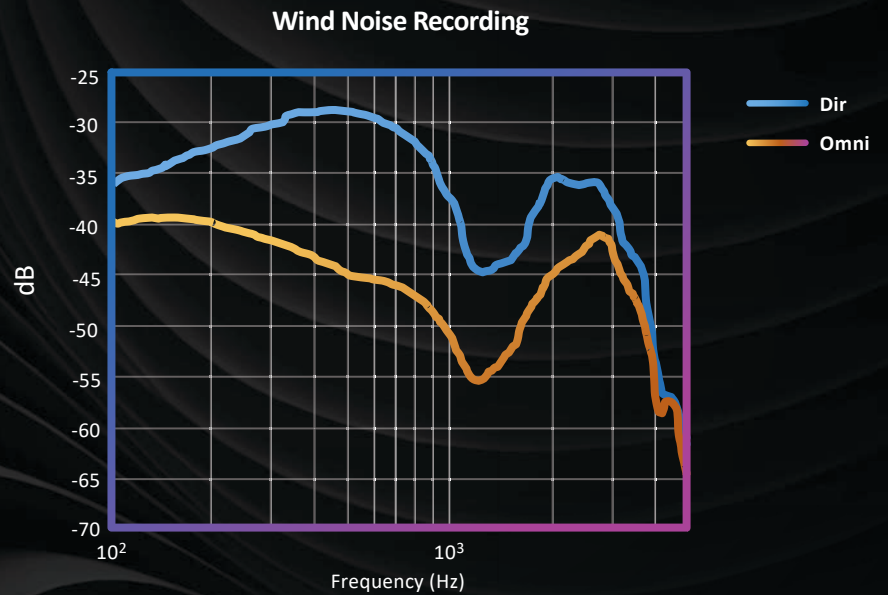


Improved Spatial Awareness

Statistically significant improvement in the SNR needed to achieve “soft but audible” audibility for target signals

Improved Wind Noise Reduction

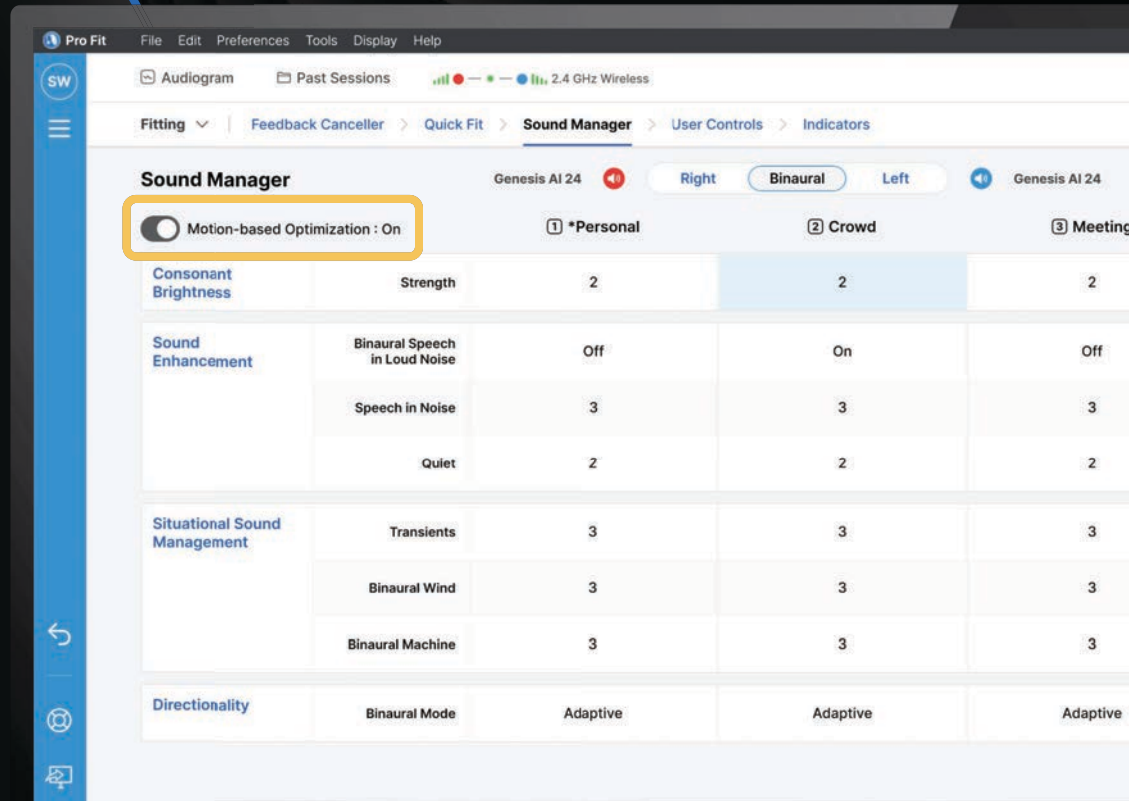
Less wind noise in omni-directional when the user is in motion



Motion-Based Optimization

Defaults ON

OFF will disable for all programs





Consonant Brightness

Control over our additive compression architecture,
specifically the fast-acting compressor

Adjusting Consonant Brightness

20, 16 and 12
TECHNOLOGY TIERS

Off/On Control

TURN OFF IF NECESSARY

Sound Manager Consonant Brightness

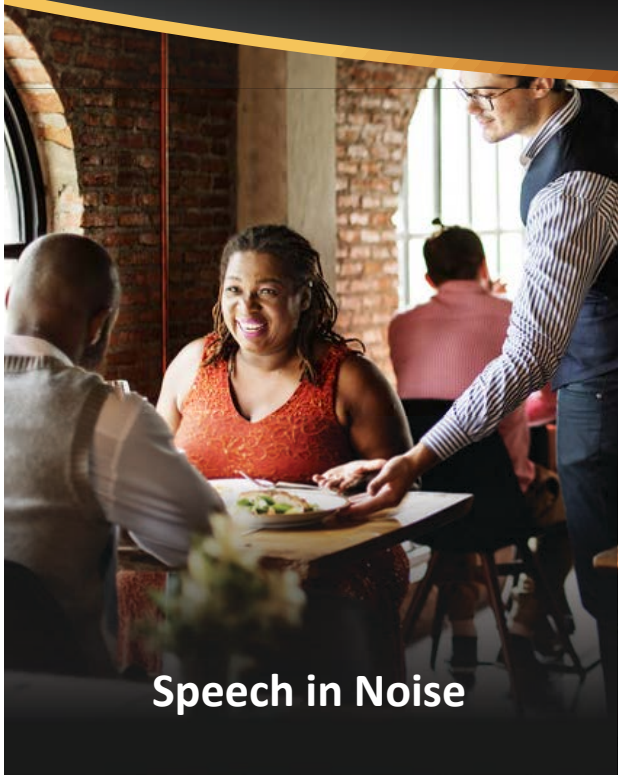
Right Binaural Left

1 *Personal 2 Disabled 3 Disabled 4 Disabled

Strength Off On Off On

Close

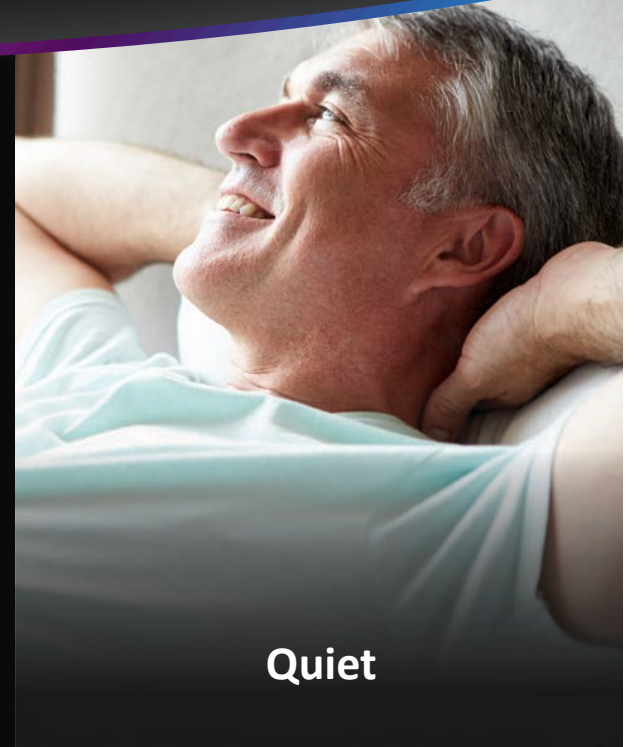
Sound Enhancement



Speech in Noise



Speech in Loud Noise



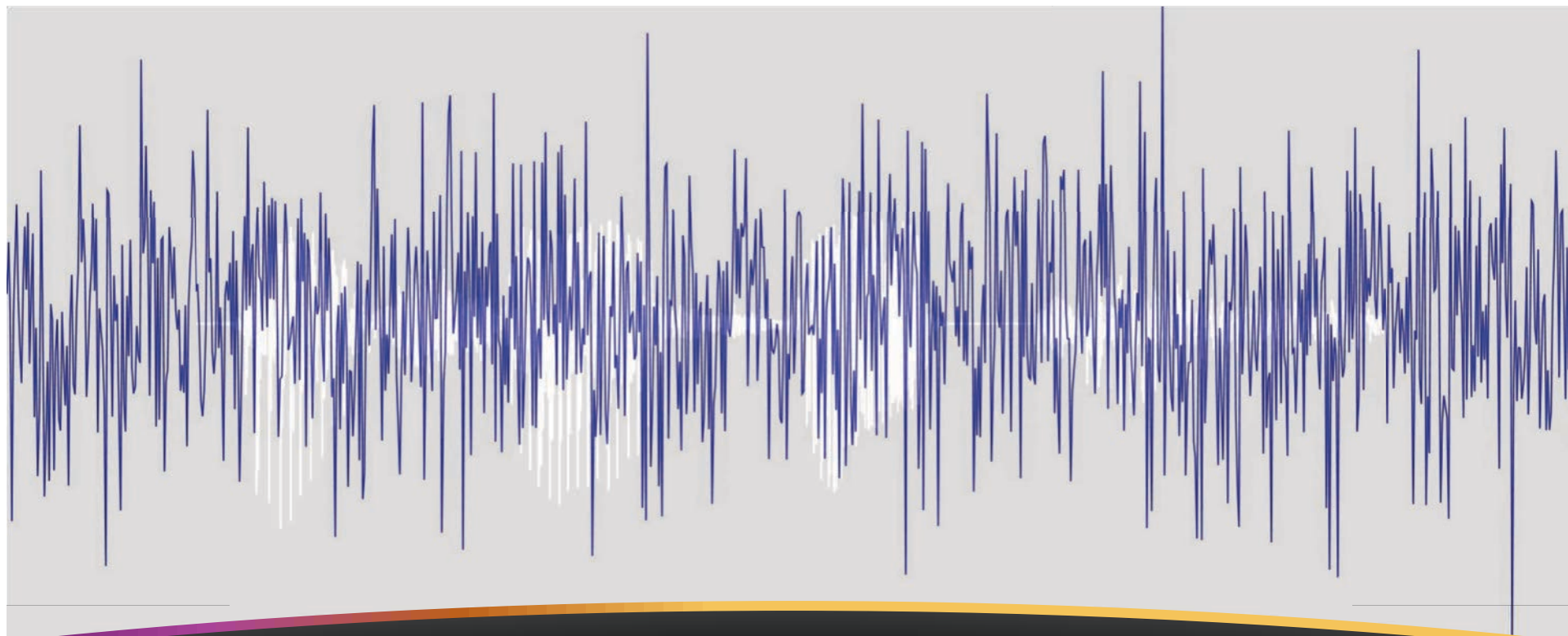
Quiet



Speech in Noise

Ultra fast processing to instantly track and filter noise even between the syllables of speech

Active 100% of the time



Speech in Noise



Off



Up to
8 dB



Up to
10 dB



Up to
12 dB



Up to
22 dB



Off



Up to
8 dB



Up to
10 dB



Up to
12 dB



Up to
22 dB

Binaural Speech in Loud Noise

Reduces steady-state and
dynamic background noise

Reduces interfering
sounds from the sides

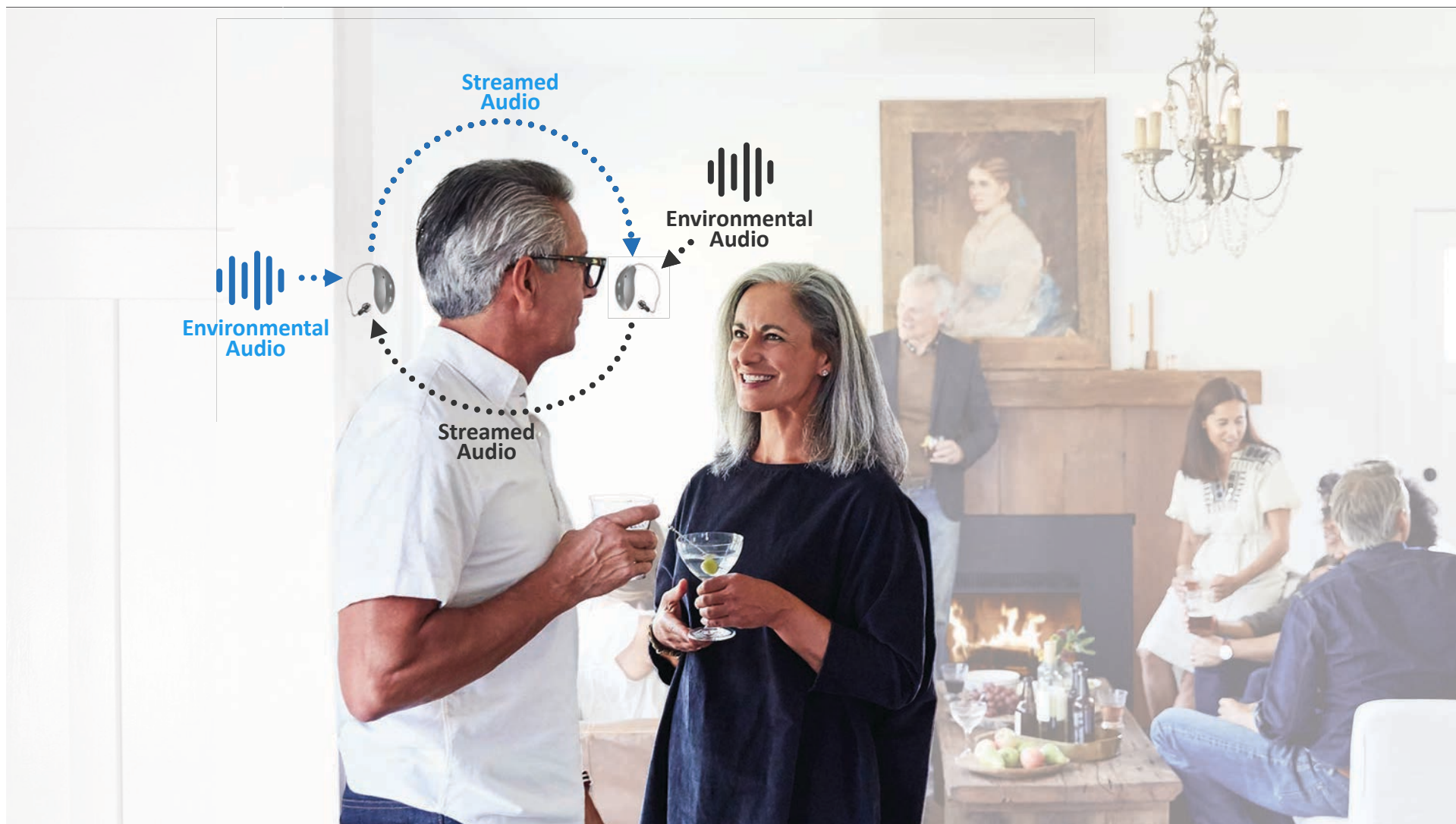
Preserves interaural level
differences for localization

GENESIS^{AI}

24 | 20



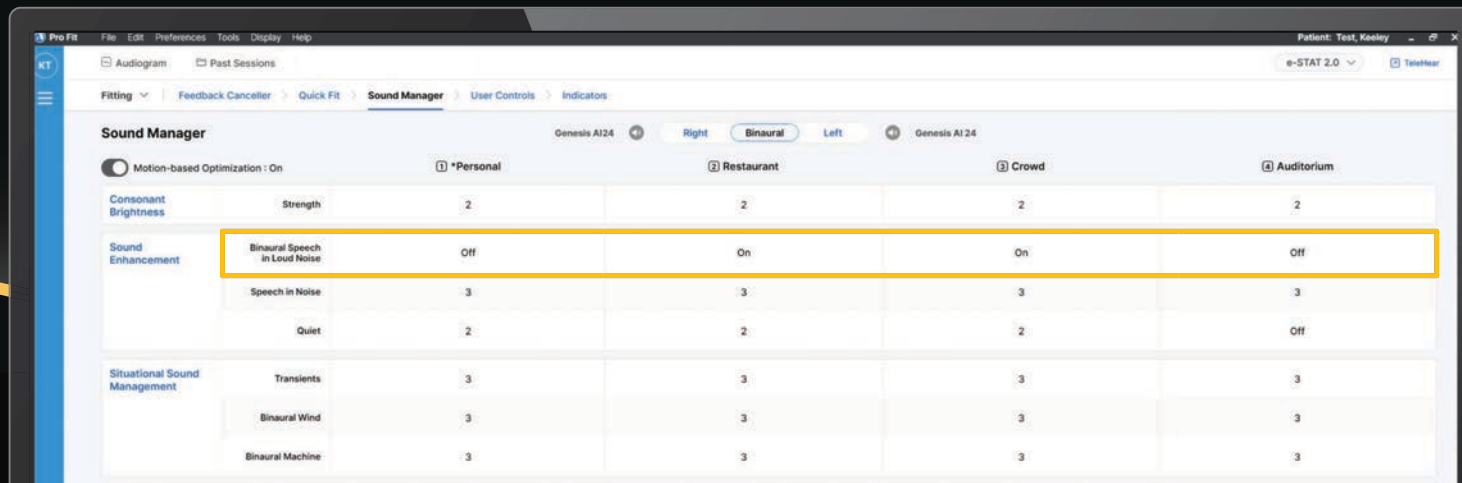
Genesis AI RIC 312 and RIC RT devices have
access to Speech in Loud Noise – our *binaural*
noise management system

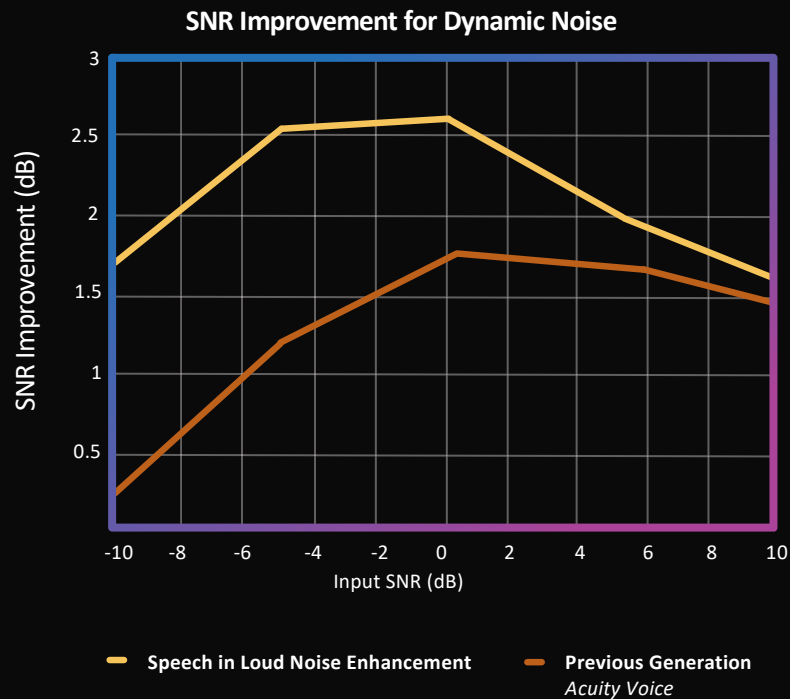


Binaural Speech in Loud Noise

Program	Personal	Meeting	Crowd	Restaurant	Car
Default	Off	Off	On	On	Off

Auditorium	Music	Television	Outdoor	Mute	All TeleCoil/ Loops
Off	Off	Off	Off	Off	Off





Speech in Loud Noise

Provides a signal-to-noise ratio benefit over traditional noise reduction algorithms for speech in dynamic noise (e.g. speech in babble)

Quiet

Keeps hearing aids quiet in
low-level environments



Quiet

2 - Default

3 - Maximum

1 - Minimum

Sound Manager Sound Enhancement

Right Binaural Left

1 *Personal 2 Restaurant 3 Crowd 4 Auditorium

Speech in Loud Noise ☐ Off

Speech in Noise

Off 1 2 Up to 12 dB 4

Off 1 2 Up to 12 dB 4

Quiet

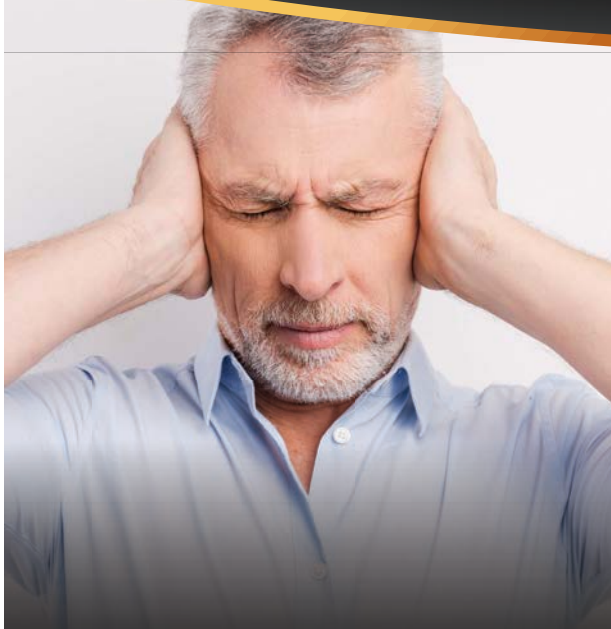
Off Minimum Expansion 2 3

Off Minimum Expansion 2 3

Close



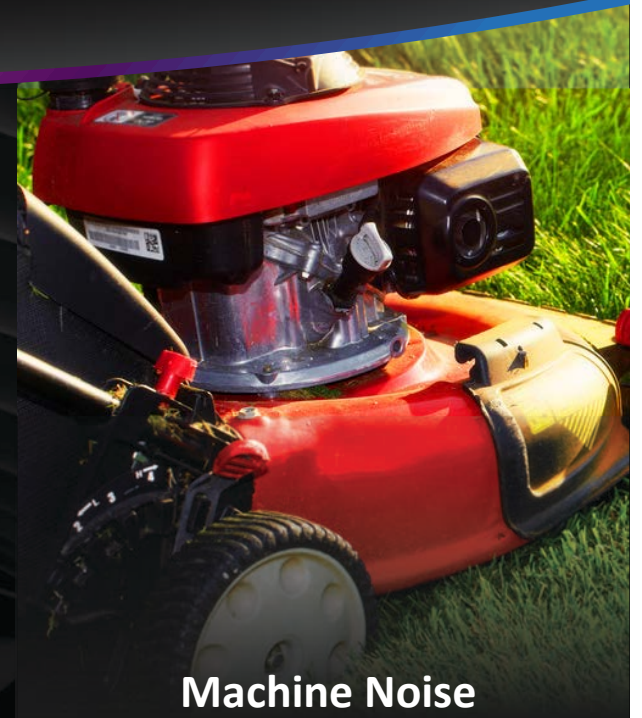
Situational Sound Management



Transient



Wind



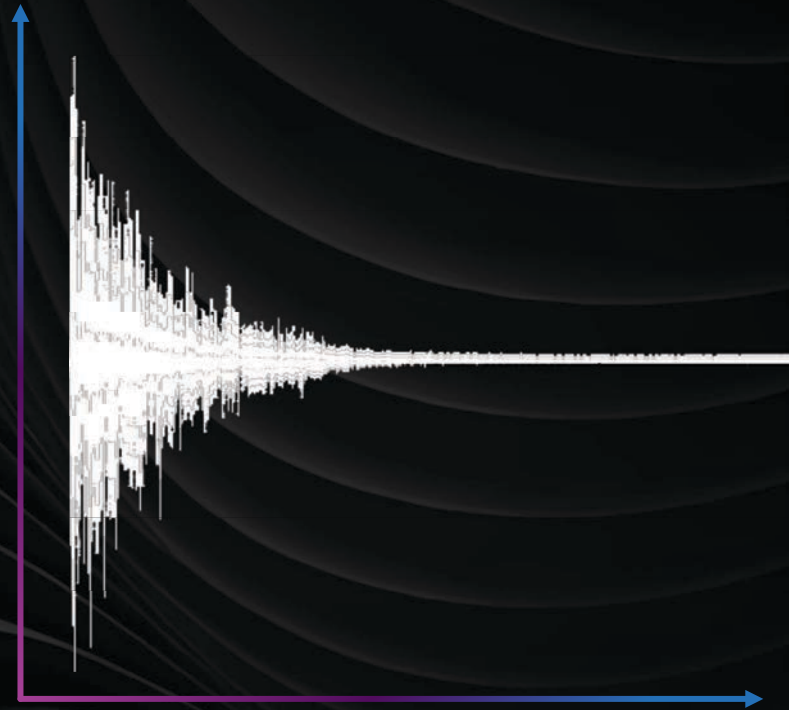
Machine Noise



Transient Sounds

Control over brief impulse sounds to prevent them from being uncomfortable or even jarring

Transient Sounds



Transients

☐ Off

☒ Up to
6 dB

☐ Up to
9 dB

☐ Up to
12 dB

☐ Up to
15 dB

☐ Off

☒ Up to
6 dB

☐ Up to
9 dB

☐ Up to
12 dB

☐ Up to
15 dB

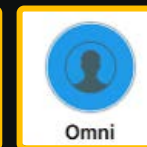
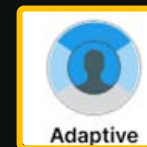


Wind

Designed to keep
patients comfortable
in windy environments

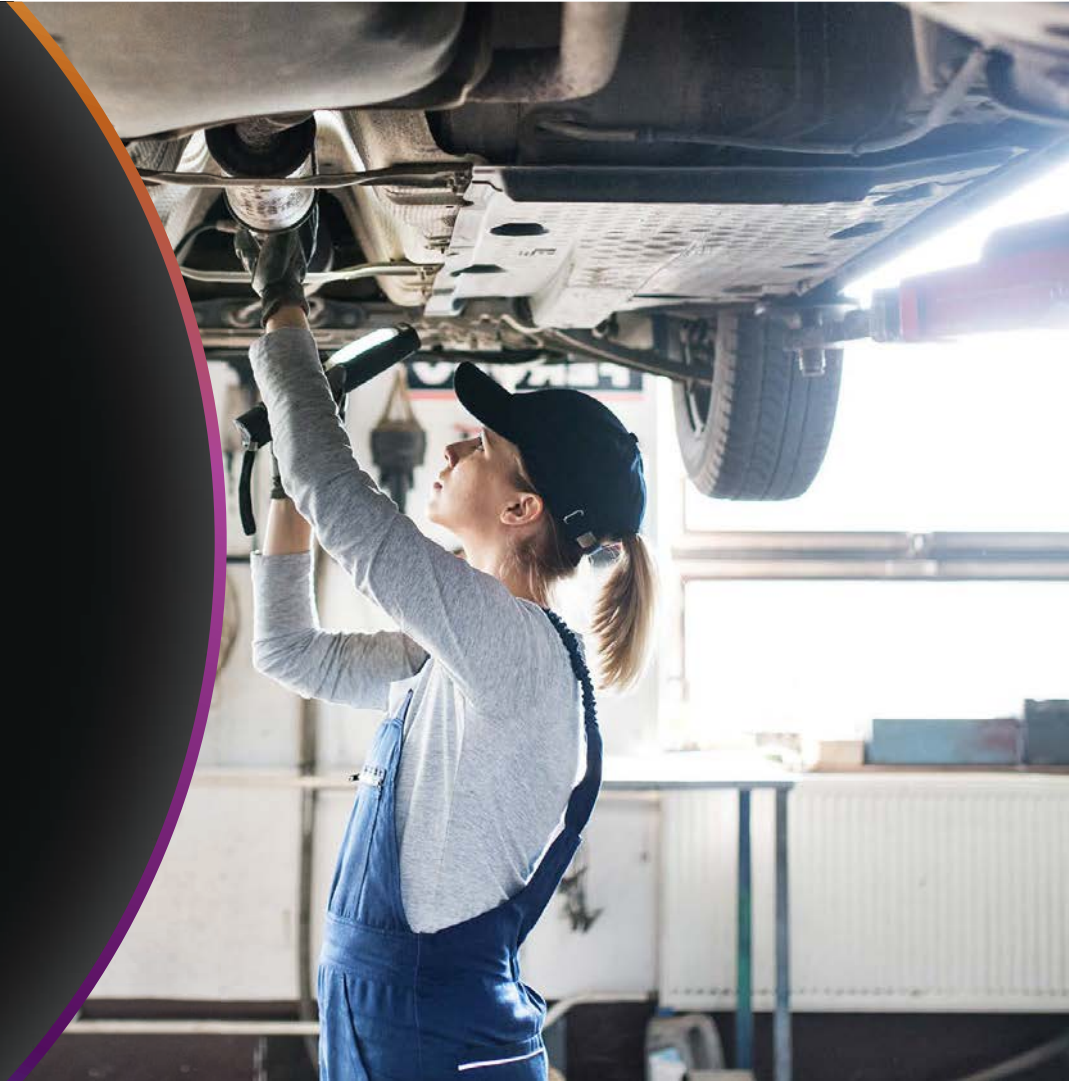
Wind

Swapping



Machine Noise

Designed to deliver comfort
for loud steady state noise

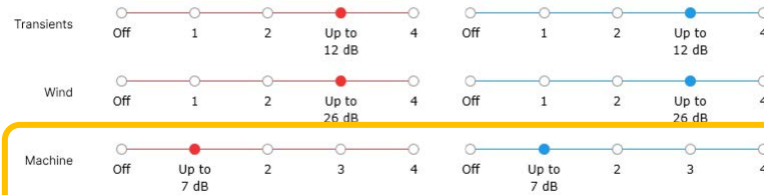


Machine Noise

Sound Manager Situational Sound Management

Right Binaural Left

1 *Personal 2 Restaurant 3 Crowd 4 Auditorium



Close



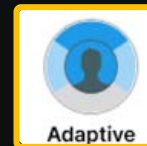
Sound Manager



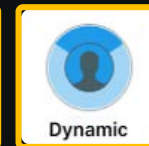
Directionality

Directionality

Automatic

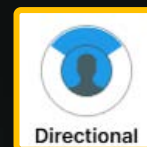


Adaptive

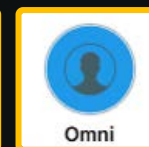


Dynamic

Fixed

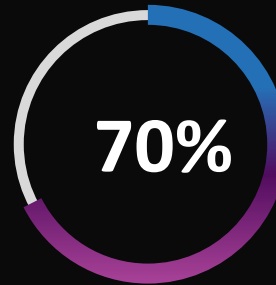


Directional

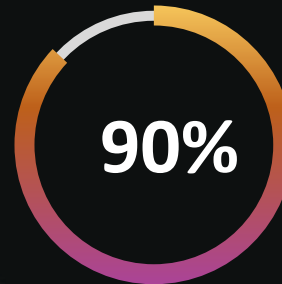


Omni

Directionality



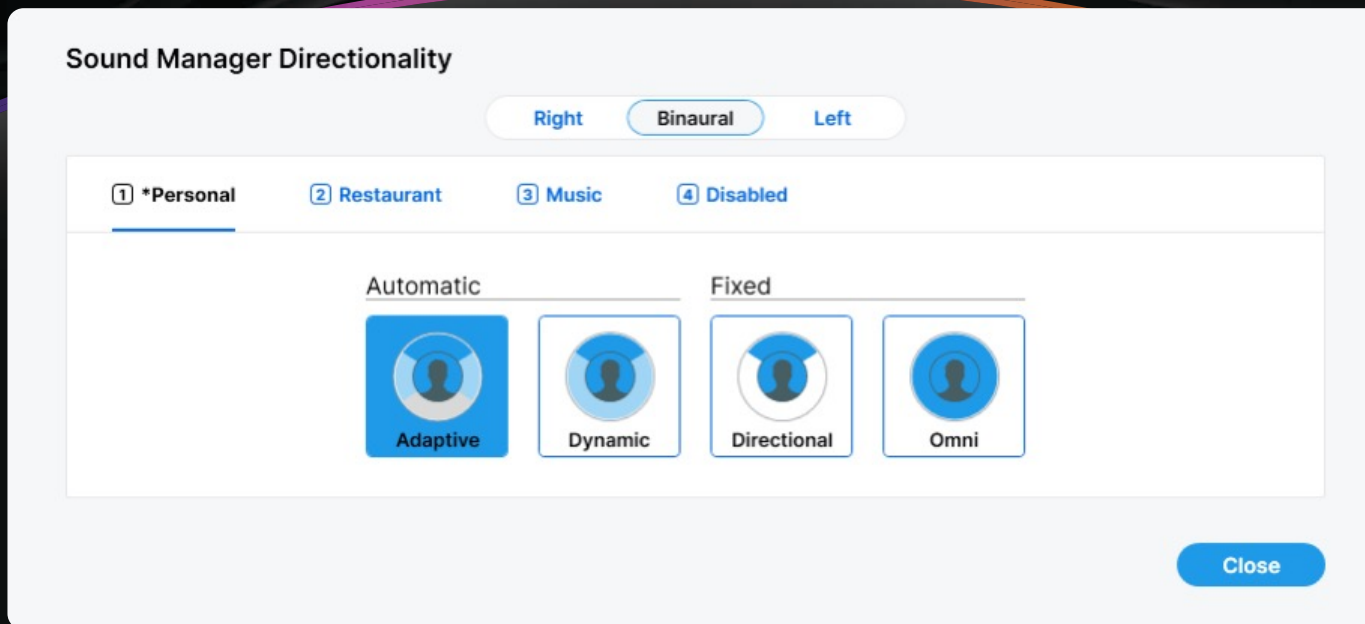
Program the aids with
only **ONE PROGRAM**
(Adaptive, *Personal)



Leave **DIRECTIONALITY**
at default settings
(Adaptive)

Directionality

Same options across all tech tiers



GENESIS^{AI}

Patient Scenarios

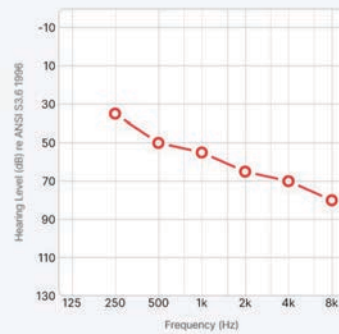


Amanda Day

View Audiogram

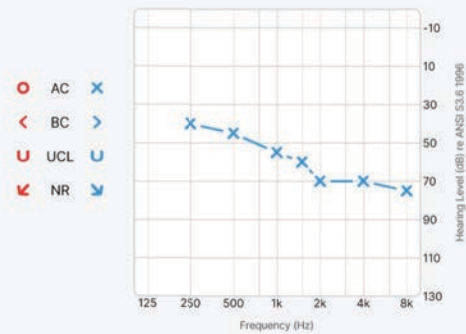
Right Ear

Selected Audiogram: Office System



Left Ear

Selected Audiogram: Office System



Edit Audiogram

Close

Patient Wearing

Genesis AI RIC RT

Open Domes (patient preference)

Uses My Starkey and Edge Mode+ frequently

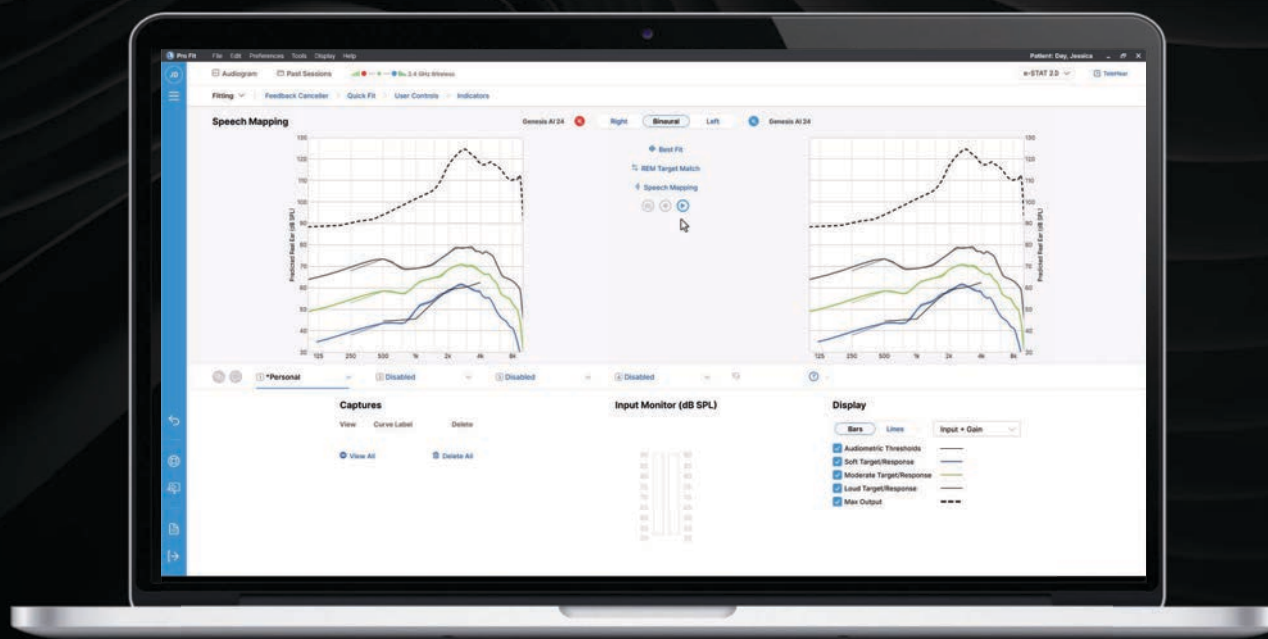
Patient Reporting

Struggles to hear soft spoken husband

Hears other tables better than her own when at dinner

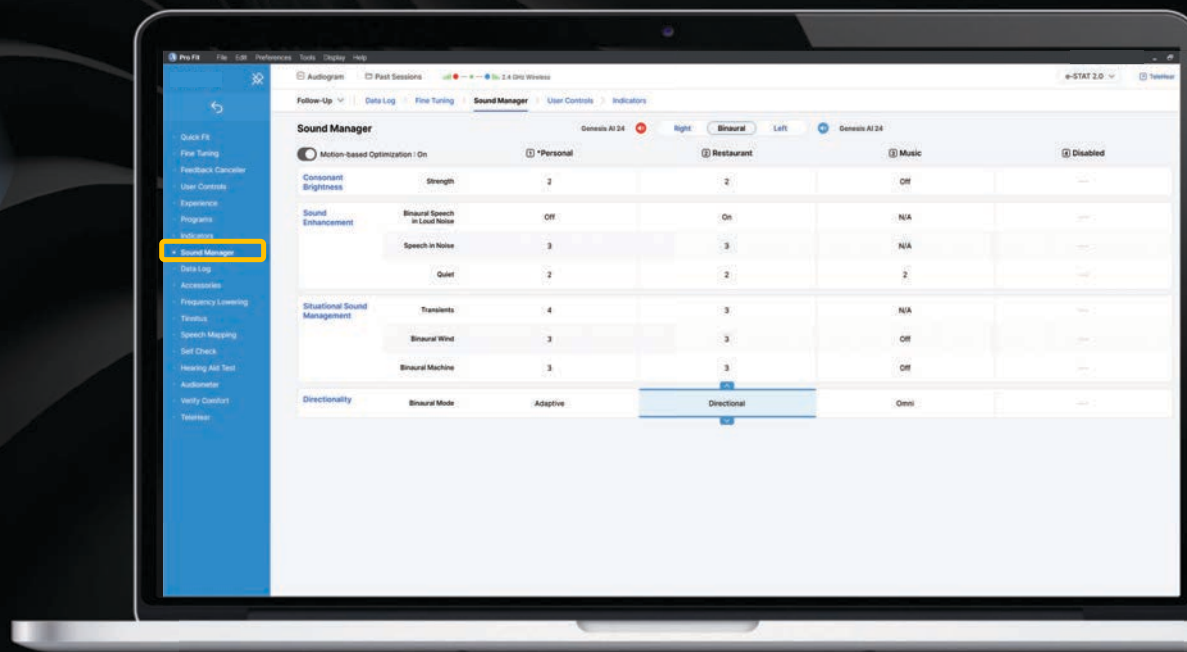
Options For Amanda

Speech Mapping Options



Options For Amanda

Clarity Options



Options For Amanda

Clarity Options



Options For Amanda

Clarity Options

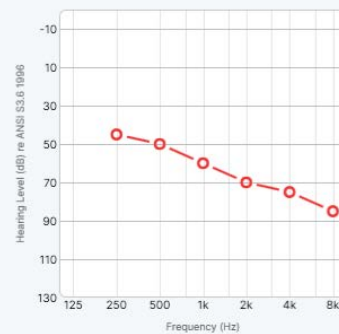


Laverne Roberts

View Audiogram

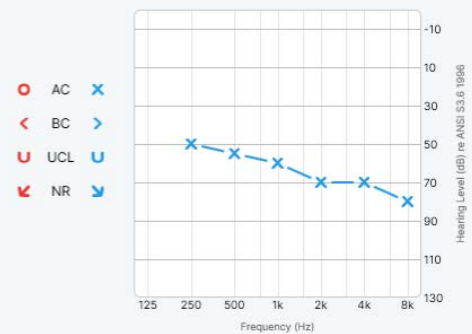
Right Ear

Selected Audiogram: Office System



Left Ear

Selected Audiogram: Office System



Edit Audiogram

Close

Patient Wearing

Genesis AI mRIC

Open Domes (patient preference)

Remote Mic +

Uses My Starkey and Edge Mode+ frequently

Patient Reporting

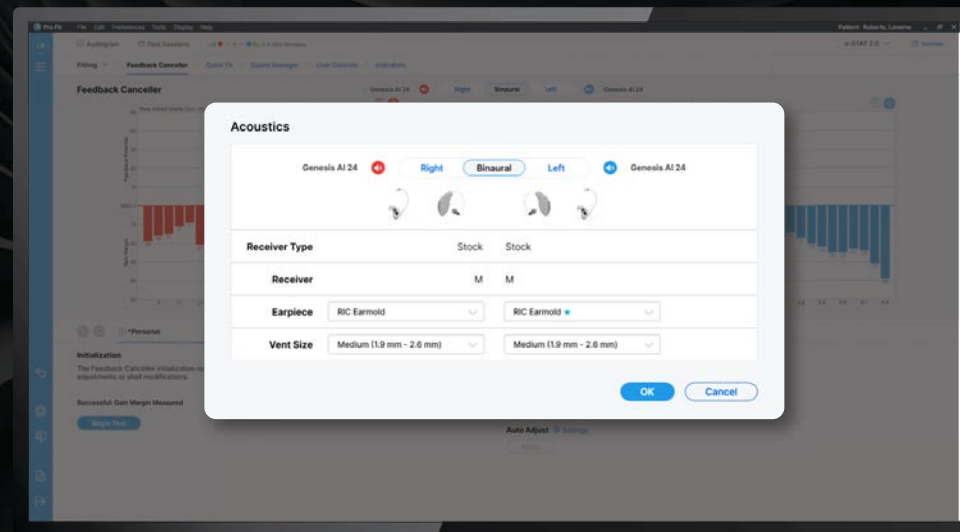
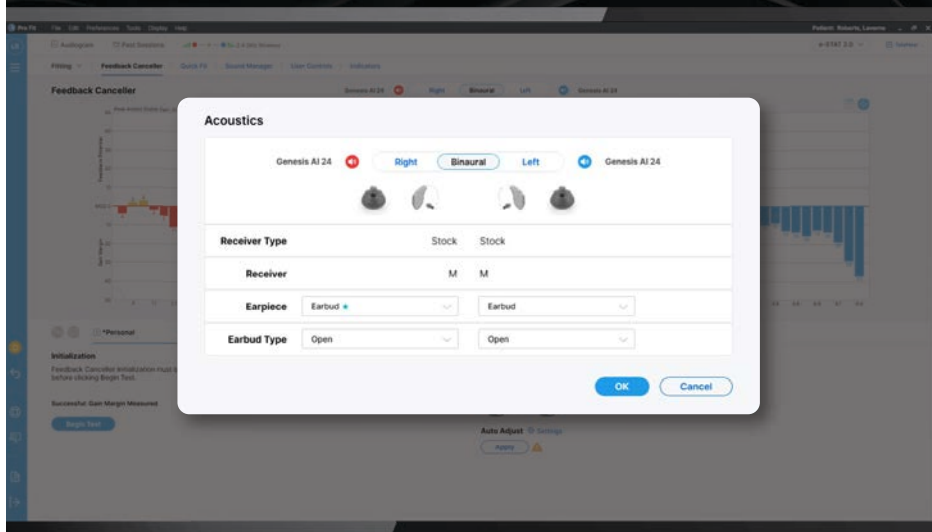
Whistling sound when running

Paper Crinkling too loud

Water running is sharp and overpowering

Options For Laverne

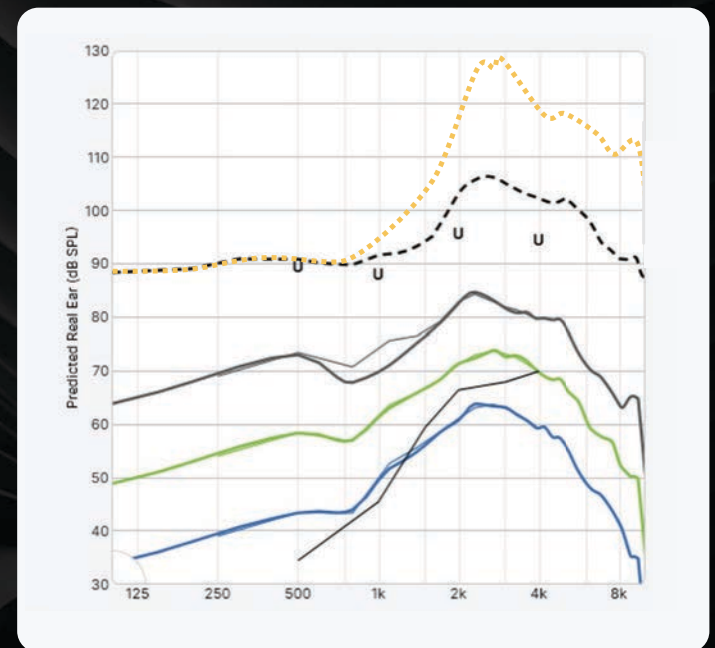
Acoustic Options



Options For Laverne

Programming Options

	150-500	750-1.1K	1.4K-2K	2.3K-3K	3.3K-3.9K	4.2K-5.2K	5.6K-6.9K	7.5K-9.4K
PRE UCL	90	94	111	128	122	118	115	111
POST UCL	90	91	96	106	103	102	97	91



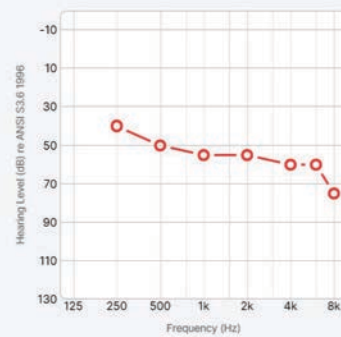
Original MPO Curve

Leon Kennedy

View Audiogram

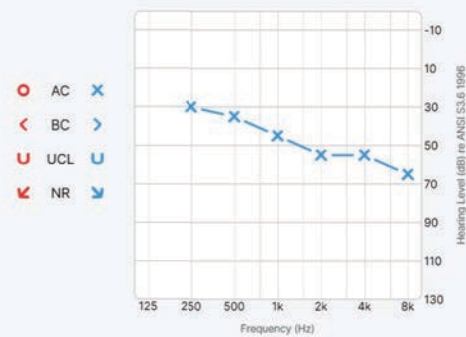
Right Ear

Selected Audiogram: Hearing Aid



Left Ear

Selected Audiogram: Hearing Aid



Edit Audiogram

Close

Patient Wearing

Signature Series CIC NW R

Custom Vent

Push button

Patient Reporting

Intermittent tinnitus bilaterally

Problems in background noise

Options For Leon

User Control Options

User Control Settings

Drag

Volume

Program

Tinnitus Level

Mute

Sleep Mode

Edge Mode+

Drop

Short Press

Edge Mode+ 

Short Press

Edge Mode+ 

Push & Hold

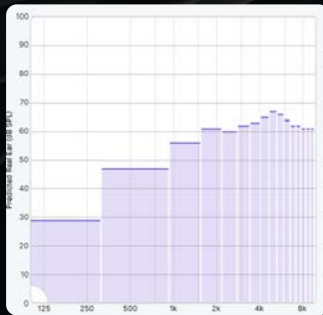
Program 

Push & Hold

Program 

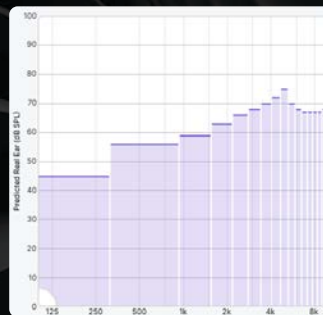
Options For Leon

Tinnitus Options



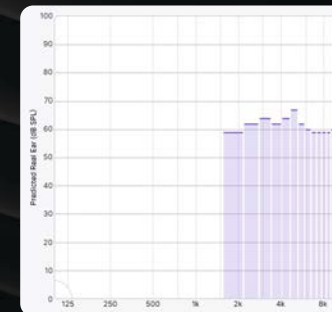
WHITE NOISE

Signal level based on
Leon's PTA



AUDIOGRAM- SHAPED NOISE

Automatic shaping of the
tinnitus stimulus based on
Leon's hearing loss



CUSTOM NOISE

Custom shaping of the
tinnitus stimulus based
on Leon's reported MDLs
and MMLs

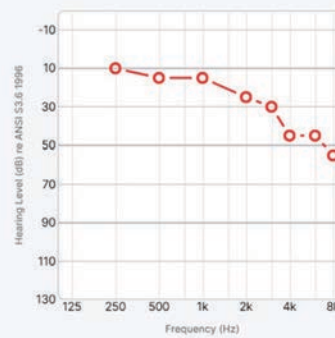


Kevin Miller

View Audiogram

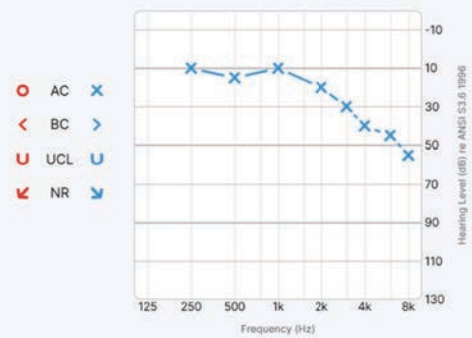
Right Ear

Selected Audiogram: Office System



Left Ear

Selected Audiogram: Office System



Edit Audiogram

Close

Patient Wearing:

Genesis AI RIC RTs

Custom Skeleton Molds

Uses My Starkey and Edge Mode+ frequently

Patient Reporting:

Struggling to hear speech in background noise

Cutlery when in restaurants is too sharp and loud

Options For Kevin

Sound Manager Options

Sound Manager Sound Enhancement

Right Binaural Left

1 *Personal 2 Disabled 3 Disabled 4 Disabled

Speech in Loud Noise ☐ Off

Speech in Noise

Off 1 2 3 Up to 22 dB

Quiet

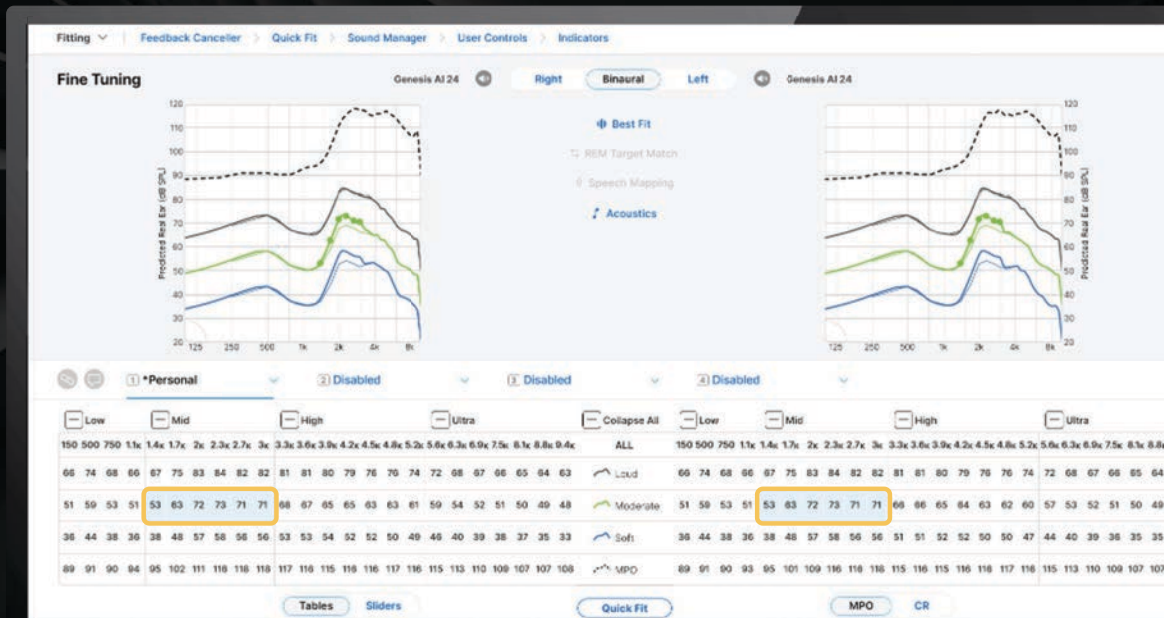
Off 1 Moderate Expansion 3

Off 1 Moderate Expansion 3

Options For Kevin

Gain Adjustment Options

	1.4 K	1.7 K	2 K	2.3 K	2.7 K	3 K
OG	52	59	68	69	67	67
NEW	53	63	72	73	71	71



Options For Kevin

Gain Adjustment Options

	150	500	750	1.1 K
OG Loud	66	74	68	66
OG Moderate	51	59	53	51
OG Soft	36	44	38	36

New Loud	66	73	68	65
New Moderate	51	58	53	50
New Soft	36	43	38	35



Options For Kevin

Sound Manager Options

Sound Manager Situational Sound Management

Right Binaural Left

1 *Personal 2 Disabled 3 Disabled 4 Disabled

Transients	Off 1 2 3 Up to 15 dB	Off 1 2 3 Up to 15 dB
Wind	Off 1 2 Up to 26 dB 4	Off 1 2 Up to 26 dB 4
Machine	Off 1 2 Up to 17 dB 4	Off 1 2 Up to 17 dB 4

Close

Additional Pro Fit Tools





Auto Sleep and Sleep Mode

New naming to better
reflect functionality,
making it easier to use

Rechargeable = Sleep State

GENESIS^{AI}





Sleep Mode

Sleep Mode VS Power Off

Sleep Mode: Better longevity to lithium-ion battery life; faster power on

Power Off: more consumption needed to turn back on; slower starter up time from true off state



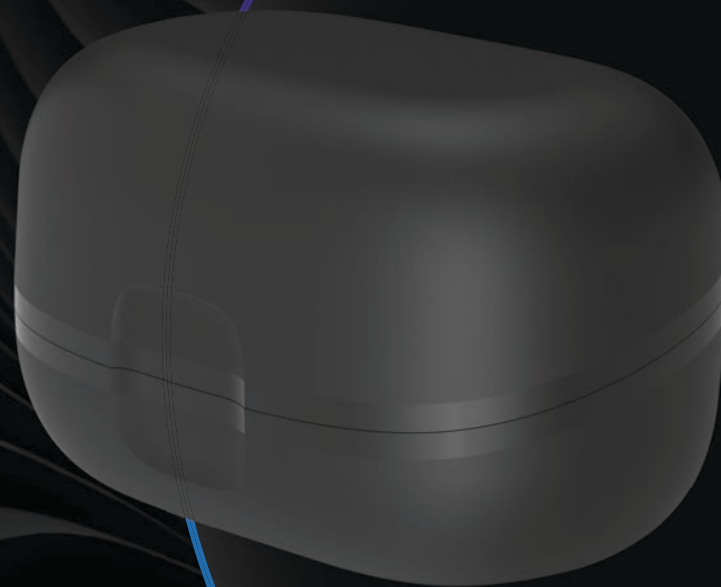
Ship Mode

Rechargeable RIC and custom hearing aids are delivered in “Ship Mode.”

Prior to first use:

StarLink Chargers must be plugged into a power source (e.g., a wall outlet)

Rechargeable RIC devices must be placed into the appropriate charger for 3 seconds and then removed



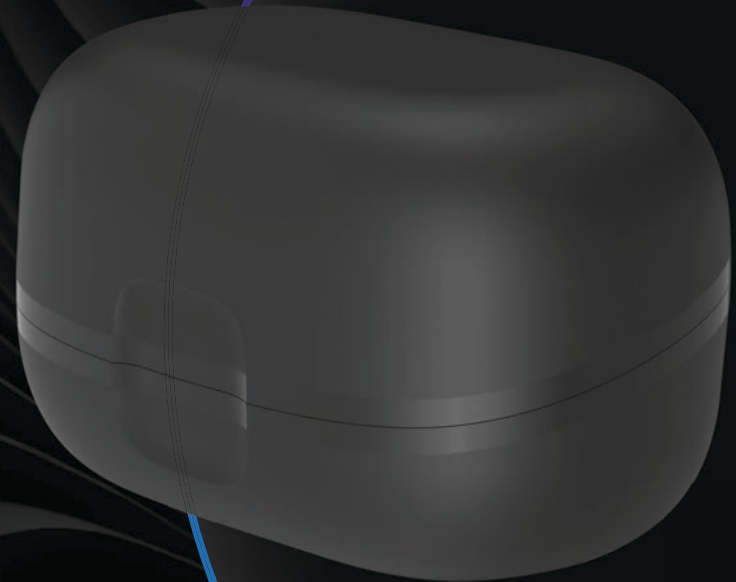
Ship Mode

Rechargeable RIC and custom hearing aids are delivered in “Ship Mode.”

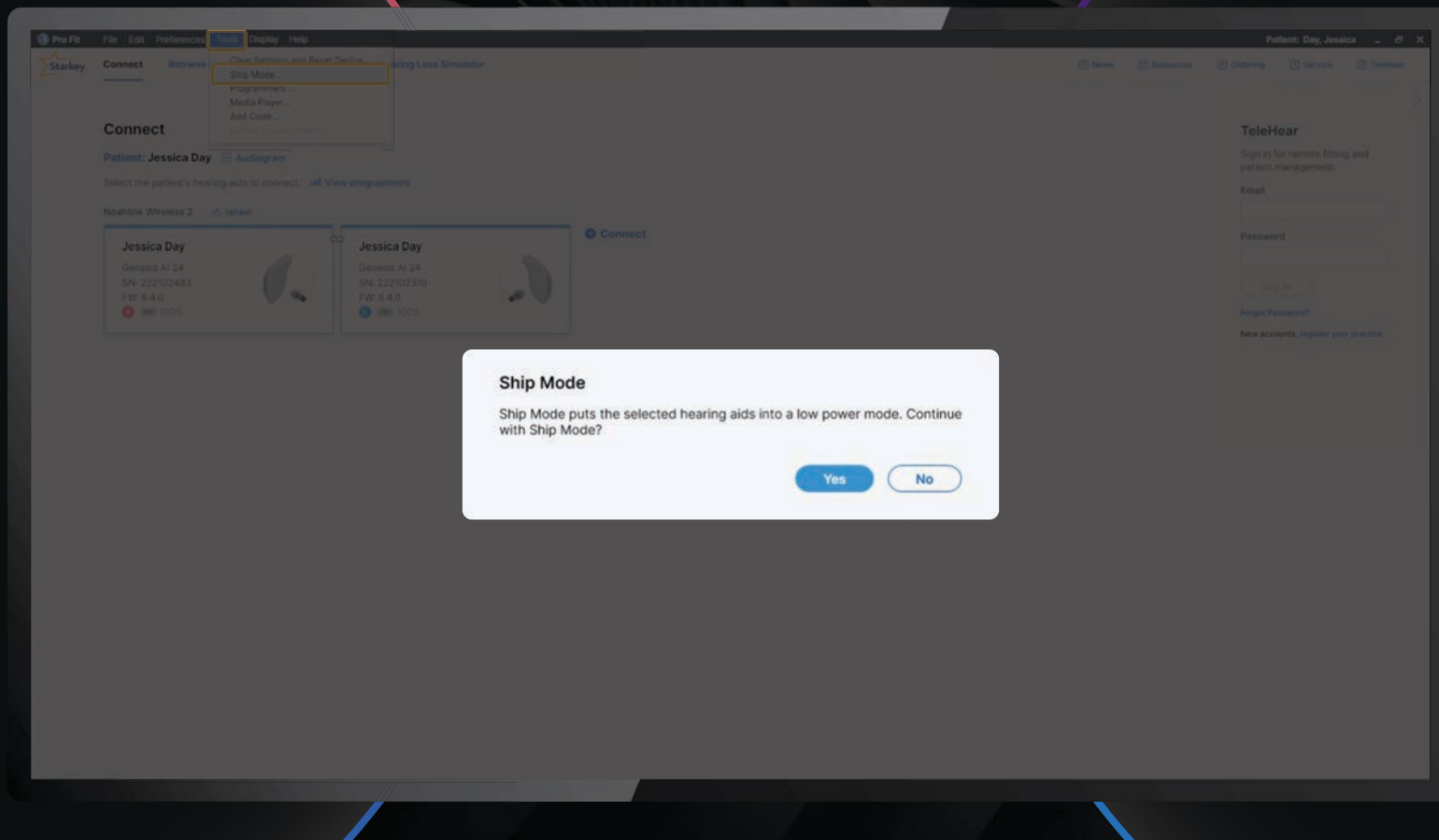
Prior to first use:

StarLink Chargers must be plugged into a power source (e.g., a wall outlet)

Rechargeable custom devices can be placed on the charger for 3 seconds and then removed or if there is a program button on the device, press the button to exit ship mode



Ship Mode

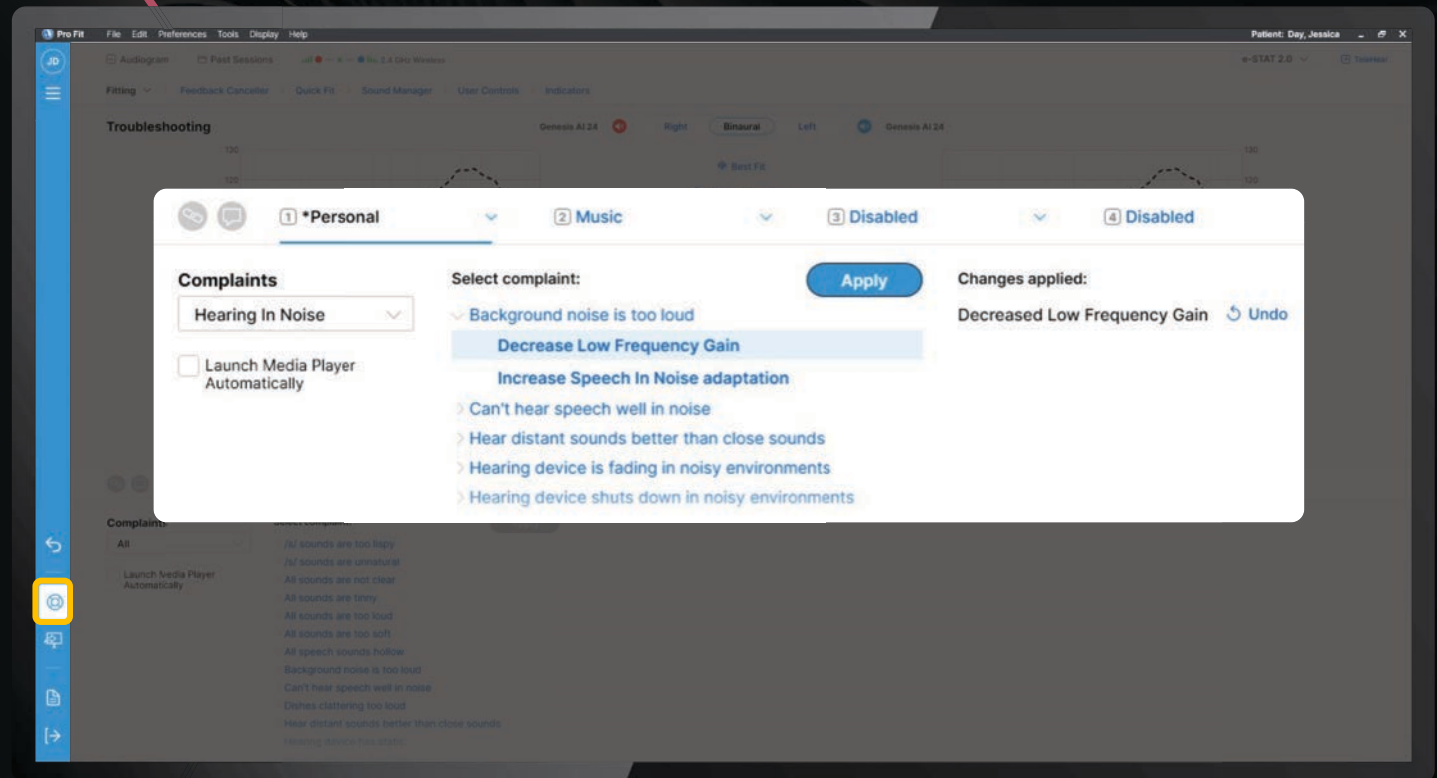


Troubleshooting

‘Troubleshooting’
previously named
‘Expert Assistant’

Available from
every screen

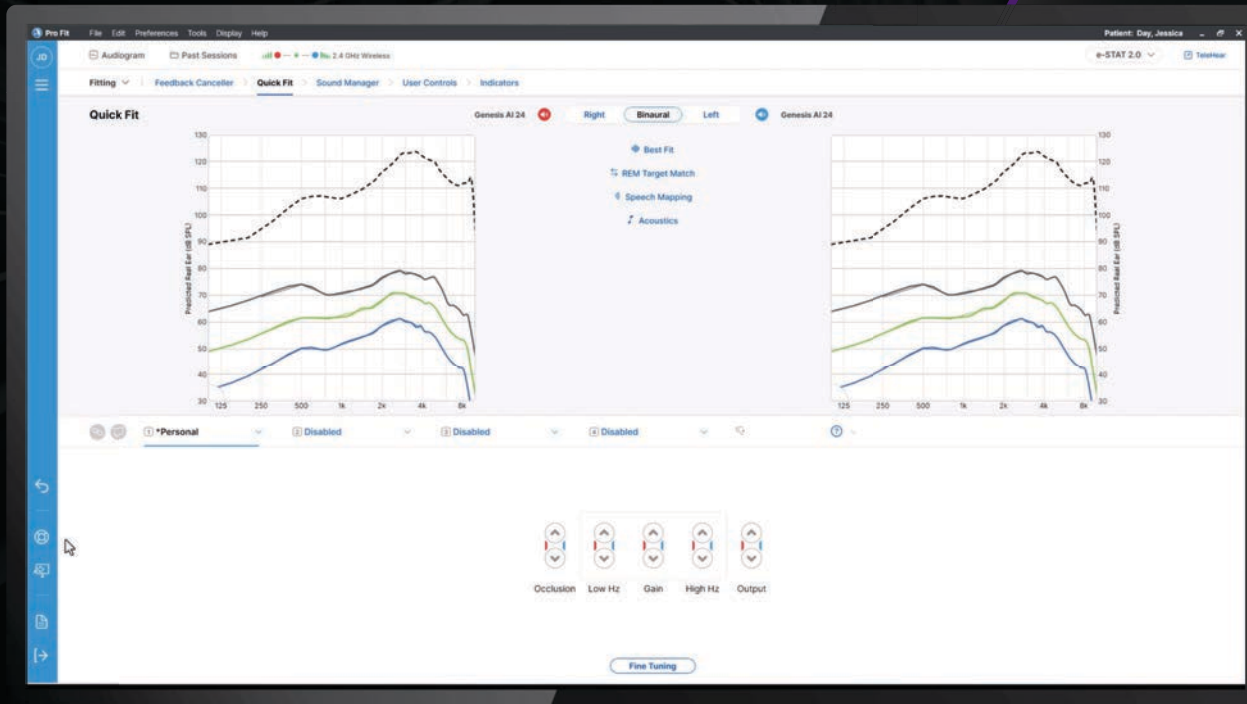
Apply and undo
changes



Audiology on Demand

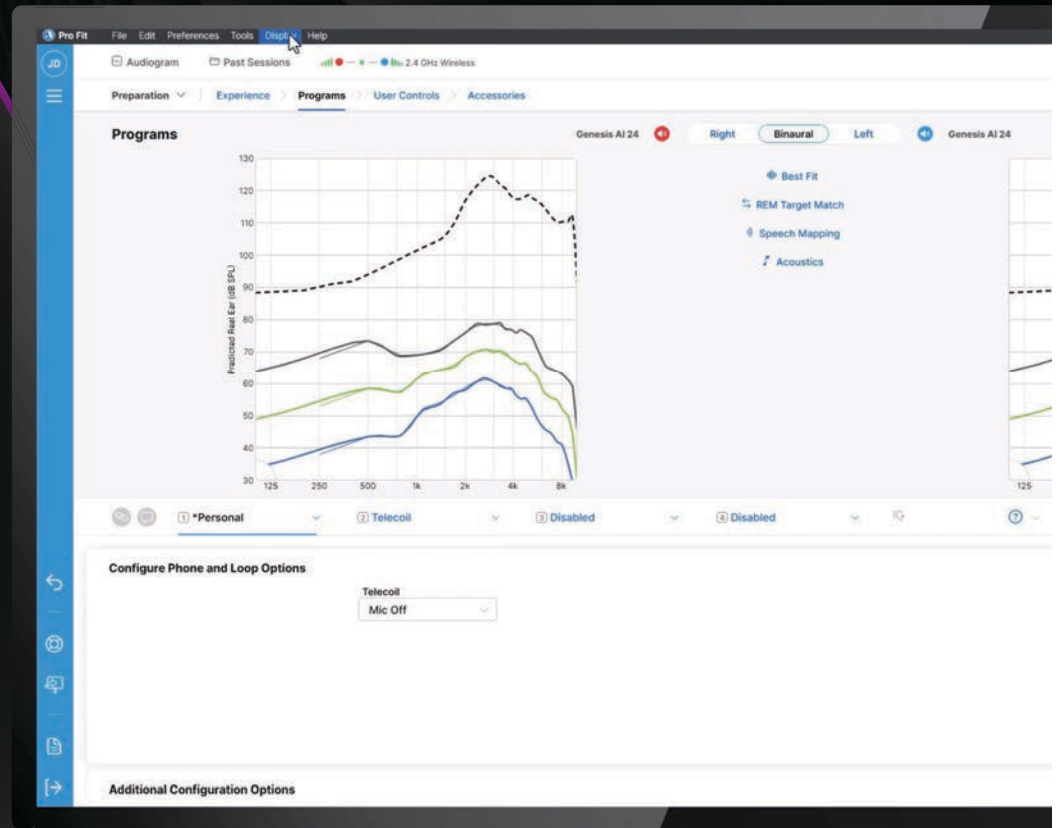
Link directly to the
Audiology on Demand
webpage

Available from
every screen



Help for Pro Fit

Whichever screen withing Pro Fit
you launch Help from will
customize the information that
you see



Thank you

