

OMEGA^{AI}

Better Hearing,
All Around



Introducing Omega AI, Better Hearing All Around

Michele Hurley, Au.D.

Webinar FAQs

How to Ask a Question:

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

Where to get the handout:

- Resources in the classroom and under Pending Courses in your account

How to view captions:

- Click Live Transcript CC Button
- Click Show Subtitle

How to earn CEUs:

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

For assistance or tech support:

- Call 800-753-2160
- customerservice@audiologyonline.com
- Use the Q&A window

Risks/Benefits

- The applicability and accuracy of the course content may vary by the clinical, geographical, and cultural context, you should evaluate the course accordingly
- As healthcare is rapidly evolving, new findings may change the validity of the information presented in this course. Providers should always consult the latest research and guidelines from professional associations
- The interventions discussed in this course may be limited in generalizability, requiring practitioners to consider specific, individual and population factors
- The course may not cover all possible risk factors, diagnostic methods, or treatment options, and complex cases may require additional considerations
- Healthcare providers should apply cultural competence and sensitivity to ensure effective and respectful care based on their patients' diverse needs
- Providers should always evaluate the limitations of diagnostic and screen tools, considering their potential for false results as well as any ethical implications
- It is the responsibility of course participants to critically evaluate the evidence from multiple sources to guide professional practice

Learner Outcomes

1

Attendees will be able to list 3 products in the Omega AI product portfolio

2

Attendees will be able to list 2 products that feature onboard LED indicators

3

Attendees will be able to identify the StarLink Edge AI Accessory that includes Auto Stream



Always creating new paths

Generative AI:
Say it, solve it

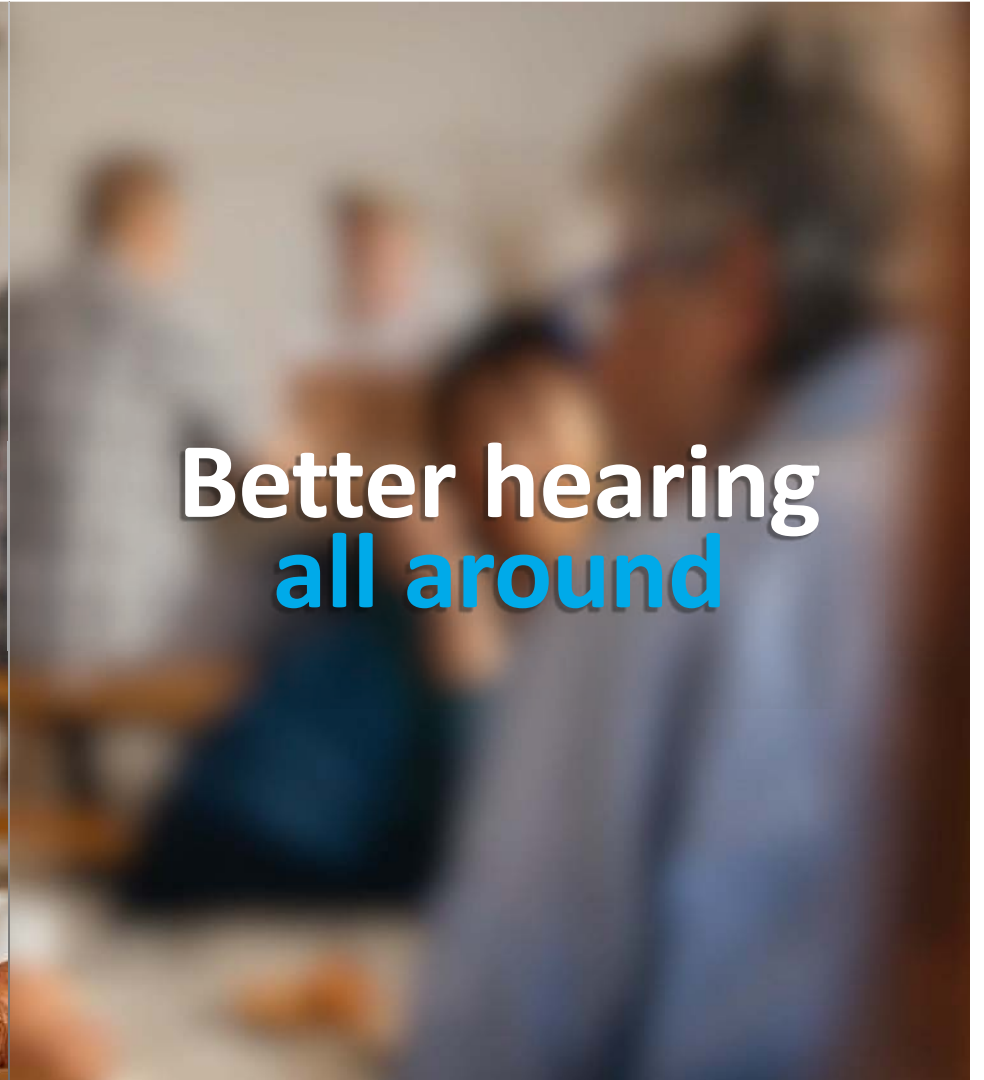
Introducing

OMEGA^{AI}

**Technology so intelligent,
it's superhuman**



**Better hearing
all around**

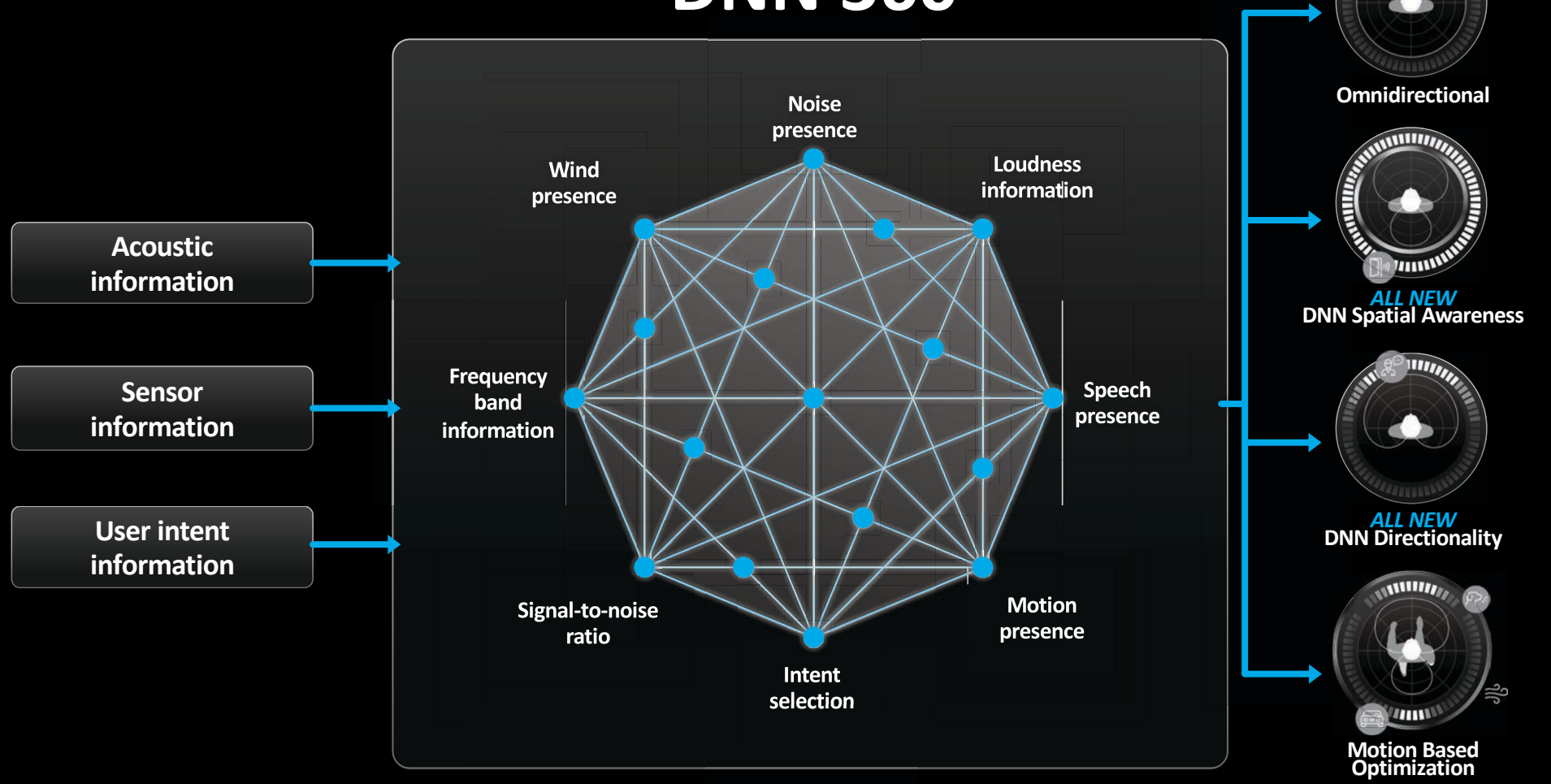


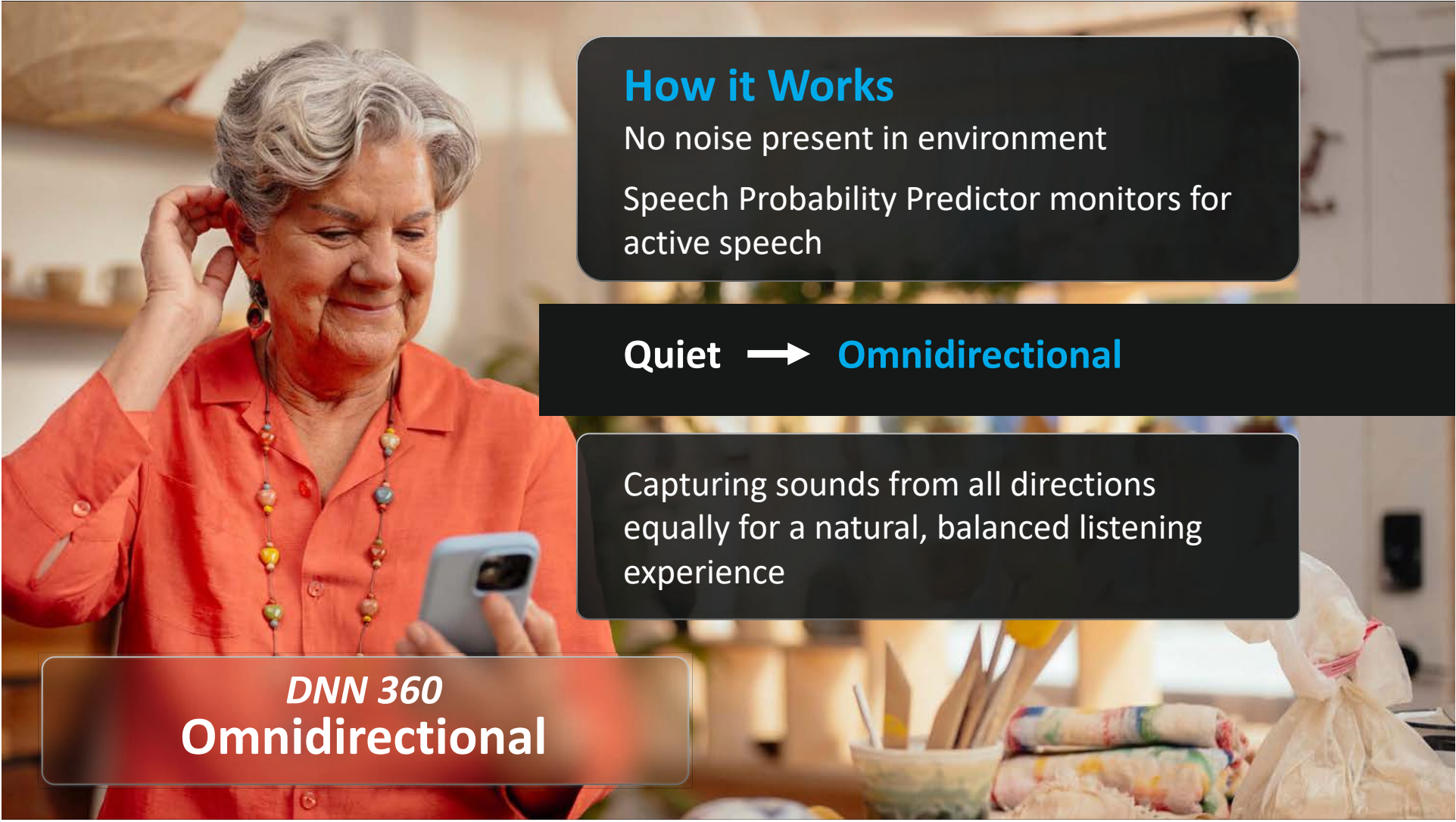


DNN 360

Better hearing
all around

DNN 360





How it Works

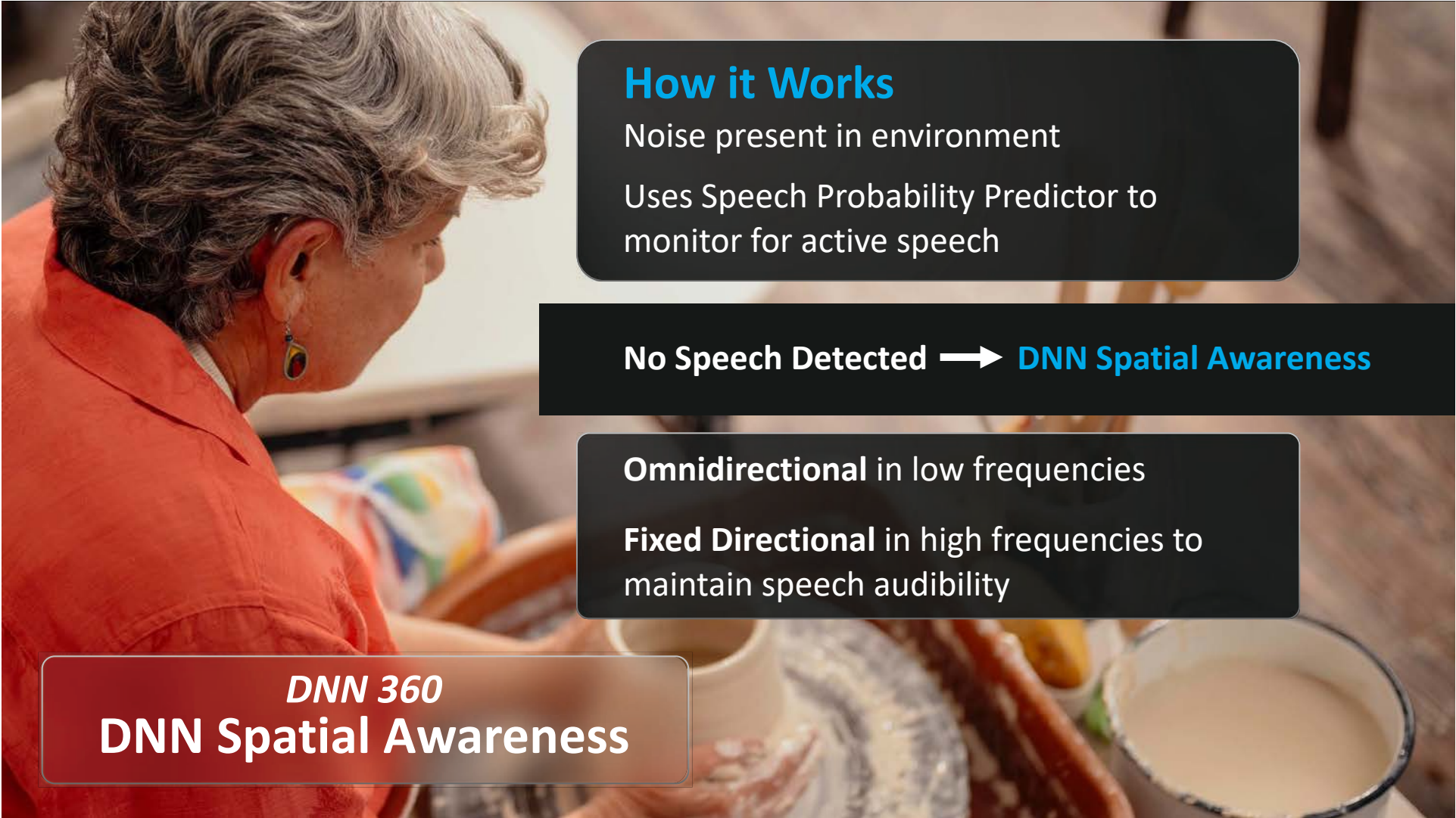
No noise present in environment

Speech Probability Predictor monitors for active speech

Quiet → Omnidirectional

Capturing sounds from all directions equally for a natural, balanced listening experience

DNN 360
Omnidirectional



How it Works

Noise present in environment

Uses Speech Probability Predictor to monitor for active speech

No Speech Detected → **DNN Spatial Awareness**

Omnidirectional in low frequencies

Fixed Directional in high frequencies to maintain speech audibility

DNN 360
DNN Spatial Awareness



How it Works

Noise present in environment

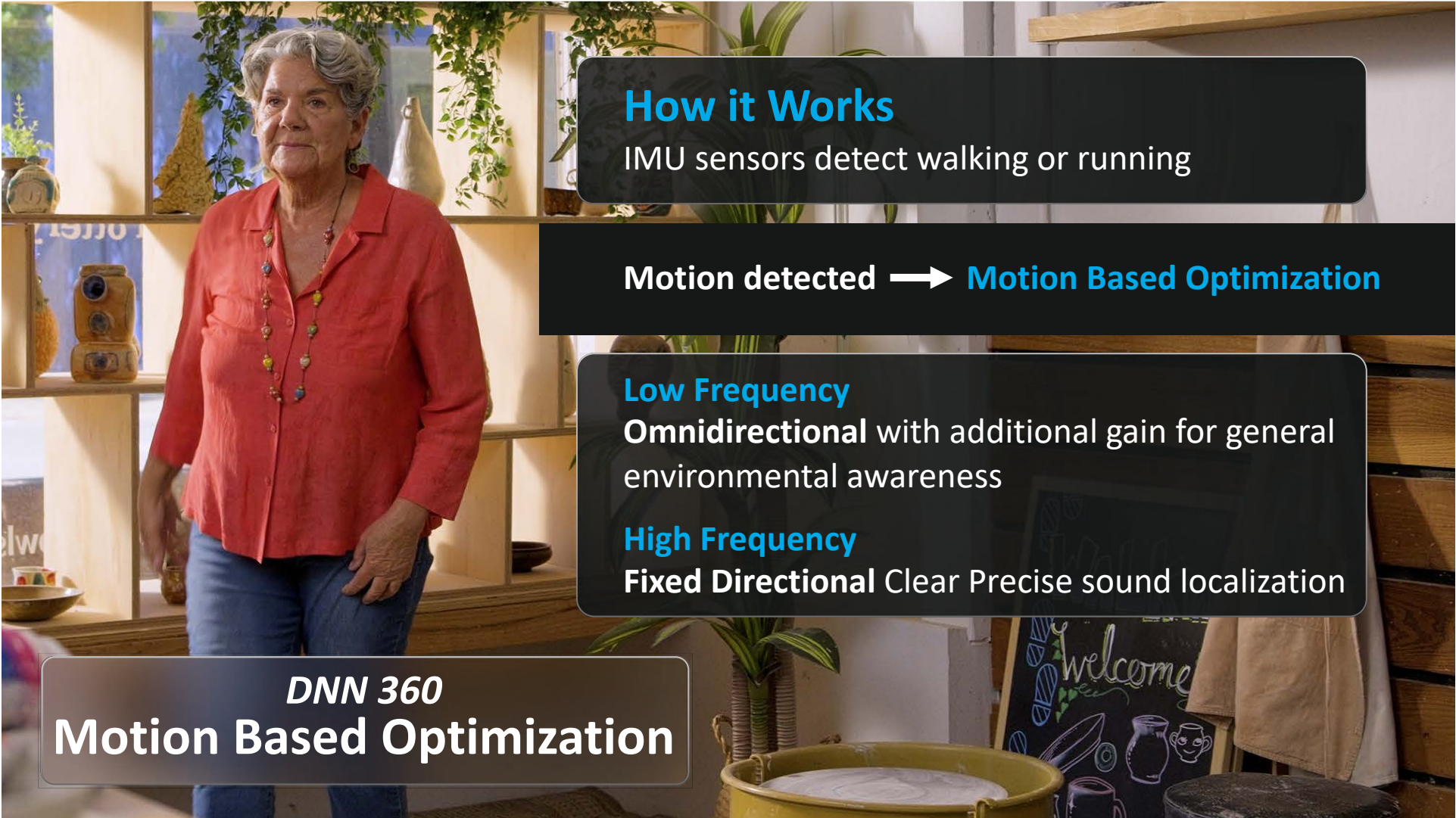
Uses Speech Probability Predictor to monitor for active speech

Speech detected → **DNN Directionality**

ENHANCED

Independent Adaptive Null Steering

DNN 360
DNN Directionality



How it Works

IMU sensors detect walking or running

Motion detected → Motion Based Optimization

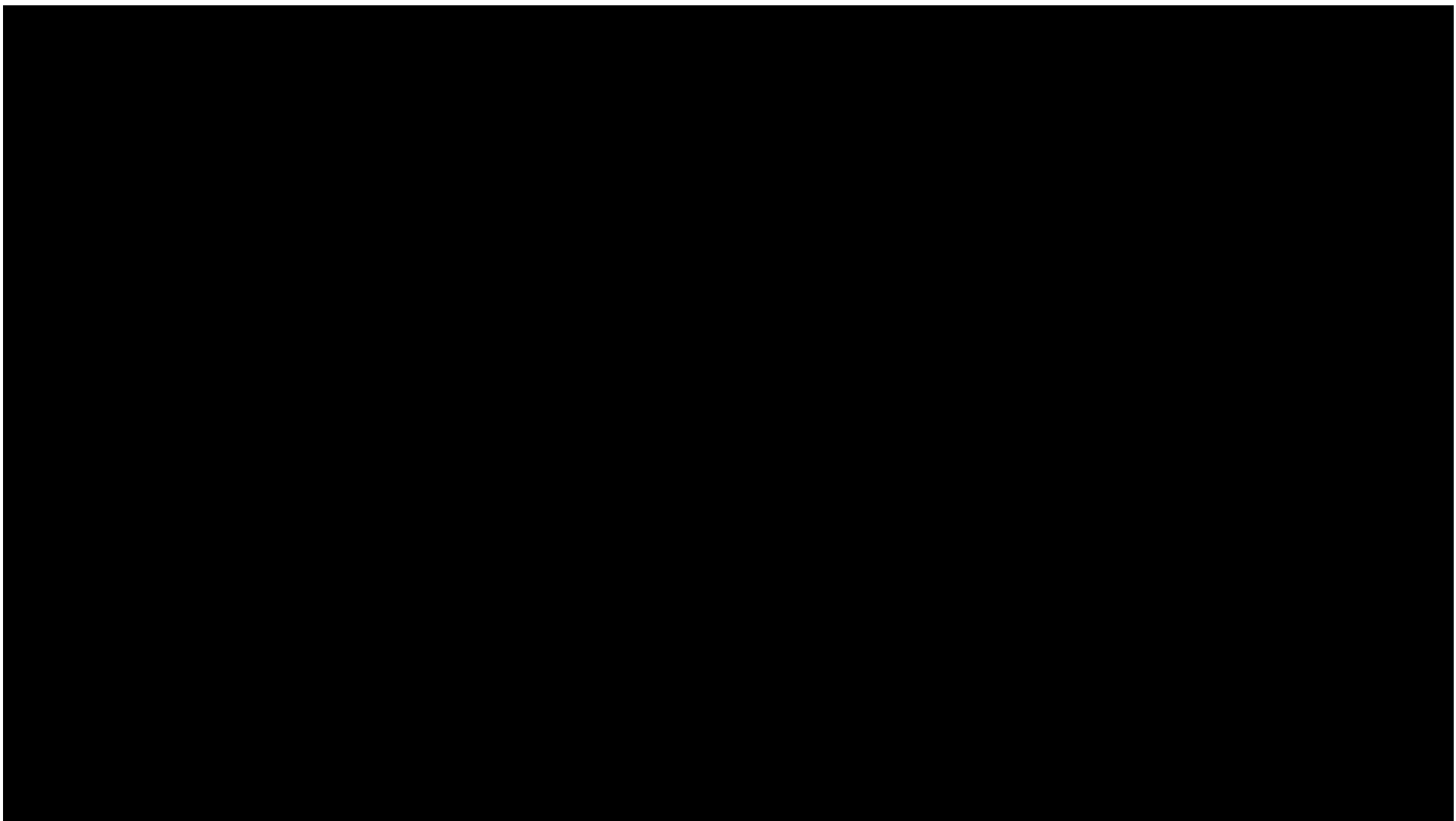
Low Frequency

Omnidirectional with additional gain for general environmental awareness

High Frequency

Fixed Directional Clear Precise sound localization

DNN 360
Motion Based Optimization





28%
improved
SPEECH
INTELLIGIBILITY

Up to
8dB SNR

FOR BETTER
SPATIAL
AWARENESS

Maintains *spatial awareness* in
non-speech environments

Maintains our *industry-leading*
battery life



OMEGA^{AI}

Designed **to shine**



ALL-NEW
Status Indicator
LED Light



CIC

ITC R

ITE R

mRIC R

RIC312

RIC RT

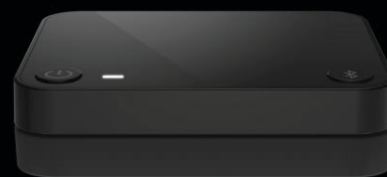
OMEGA^{AI}



StarLink Edge
Table Microphone



StarLink Edge
Remote Microphone



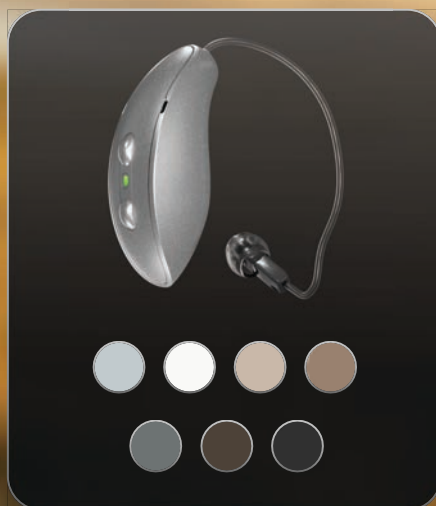
StarLink Edge
TV Streamer



StarLink
Remote Control 2.0

OMEGA^{AI} RIC RT with LED

TECH TIERS
24 | 20 | 16



Up to 51 hours of battery life
on a single charge
*29 hours with CROS**

2.4 GHz radio with LE Audio

*Battery life based on M (50 gain) receiver

Rocker switch user control
CROS/BiCROS compatible
Telecoil

COMPATIBLE
WITH

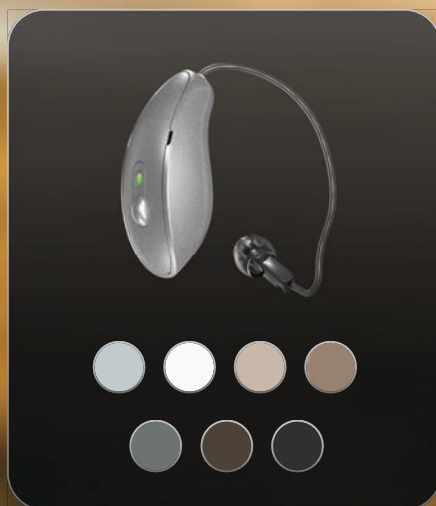
StarLink 2.0 chargers
StarLink Edge wireless accessories
My Starkey mobile app



Engineered
to be waterproof

OMEGA^{AI} mRIC R with LED

TECH TIERS
24 | 20 | 16



Up to 41 hours of battery life
on a single charge*

2.4 GHz radio with LE Audio

Push button user control

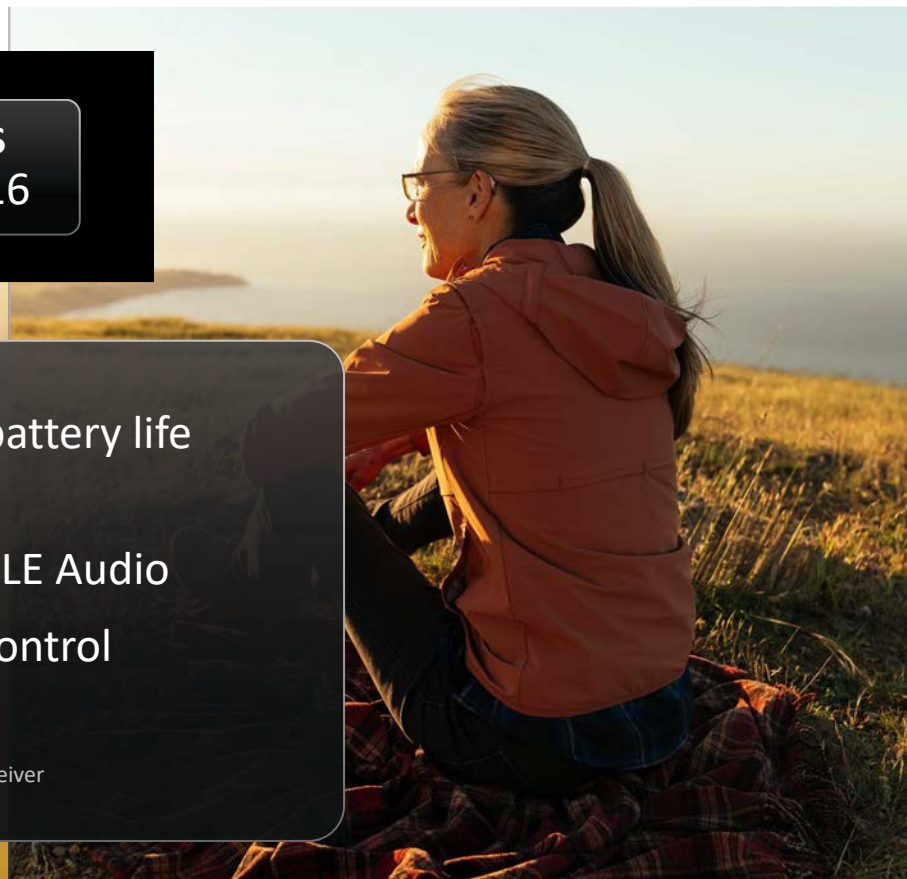
*Battery life based on M (50 gain) receiver

COMPATIBLE
WITH

StarLink 2.0 chargers
StarLink Edge wireless accessories
My Starkey mobile app



Engineered
to be waterproof



LED Indicator Lights

INDICATOR LIGHT



STATUS

Hearing Aid is
Powered ON

Hearing Aid is
Powered OFF

Successful
Bluetooth
Connection

Successful
Device Firmware
Update*

Find My
Hearing Aid

BEHAVIOR

SOLID FOR
3 Seconds

SOLID FOR
3 Seconds

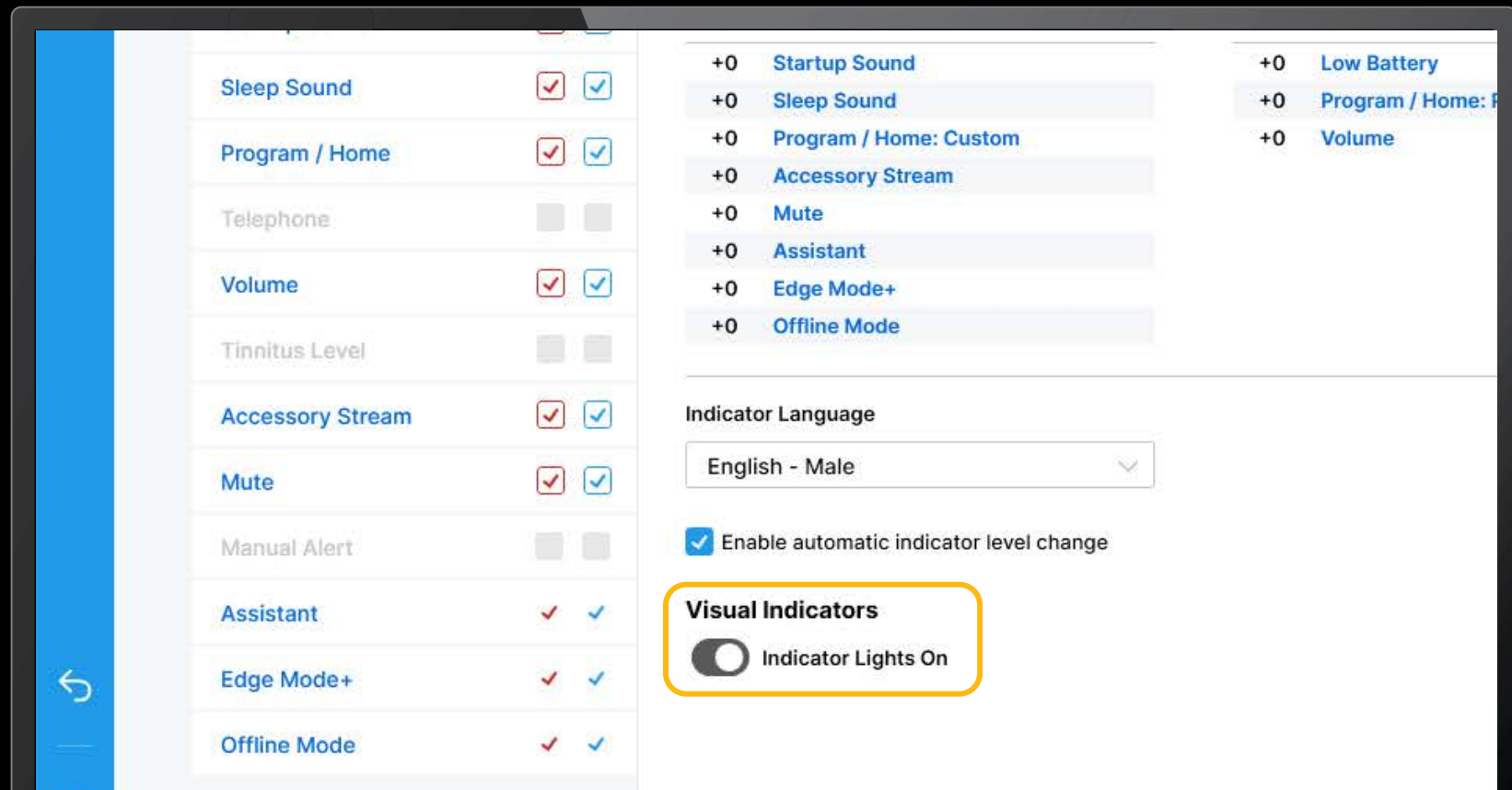
BLINKING FOR
5 Seconds

BLINKING FOR
5 Seconds

BLINKING
CONTINUOUSLY

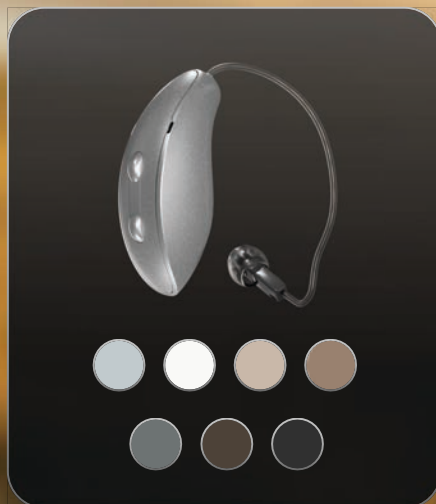
*Device Firmware Update with compatible App

Visual Indicators



OMEGA^{AI} RIC 312

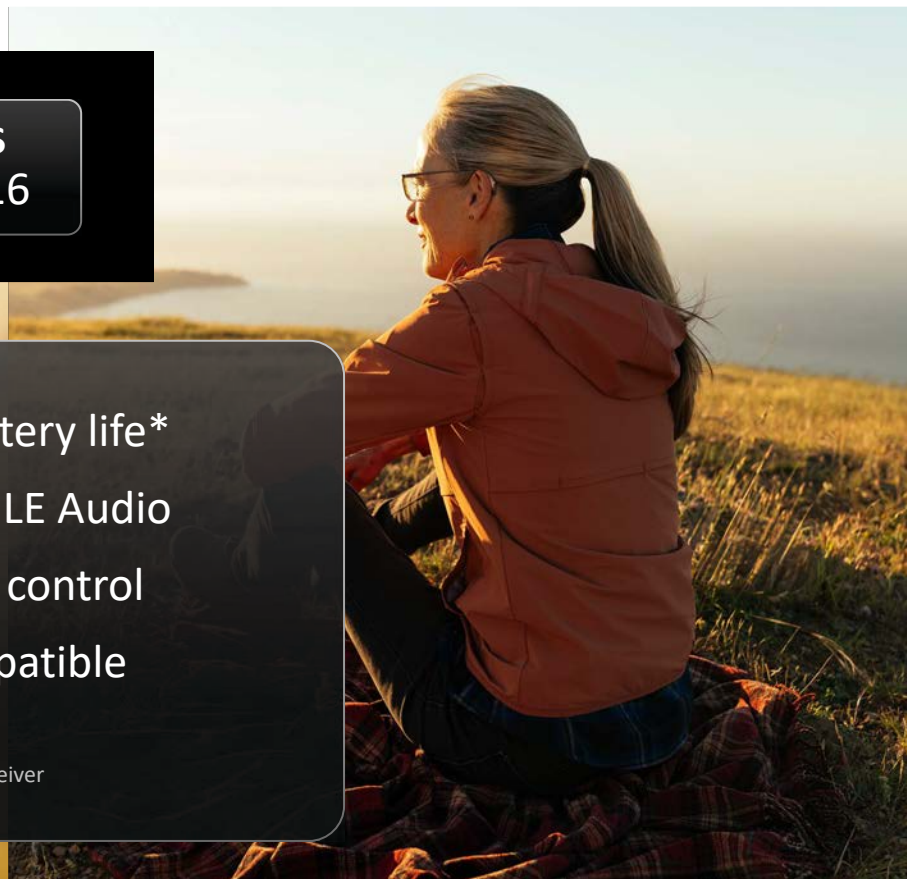
TECH TIERS
24 | 20 | 16



Up to 6 days of battery life*
2.4 GHz radio with LE Audio
Rocker switch user control
CROS/BiCROS compatible

*Battery life based on M (50 gain) receiver

COMPATIBLE StarLink Edge wireless accessories
WITH My Starkey mobile app



OMEGA^{AI} Custom Solutions

TECH TIERS
24 | 20 | 16



CIC

ITC R

ITE R

Faceplate Colors



Shell Colors



ITE/ITC: Up to 42 hours of battery life*

CIC: 312 battery, up to 8 days of battery life*

2.4 GHz radio with LE audio

Telecoil: ITE (optional)

*Battery life based on M (50 gain) receiver

**COMPATIBLE
WITH**

StarLink 2.0 chargers
StarLink Edge wireless accessories
My Starkey mobile app



**Engineered
to be waterproof**

Durability by design



OMEGA^{AI}



**INDUSTRY-
LEADING**
BATTERY LIFE

**WATERPROOF
SWEATPROOF
EVERYDAY-PROOF**

OVER 50
DURABILITY TESTS



500+ HOURS OF
HIGH-STRESS TESTING

INDUSTRY LEADING

Battery Performance



CIC 312 up to
8 days



Custom R up to
42 hours



RIC RT up to
51 hours

CROS up to
29 hours



mRIC up to
41 hours



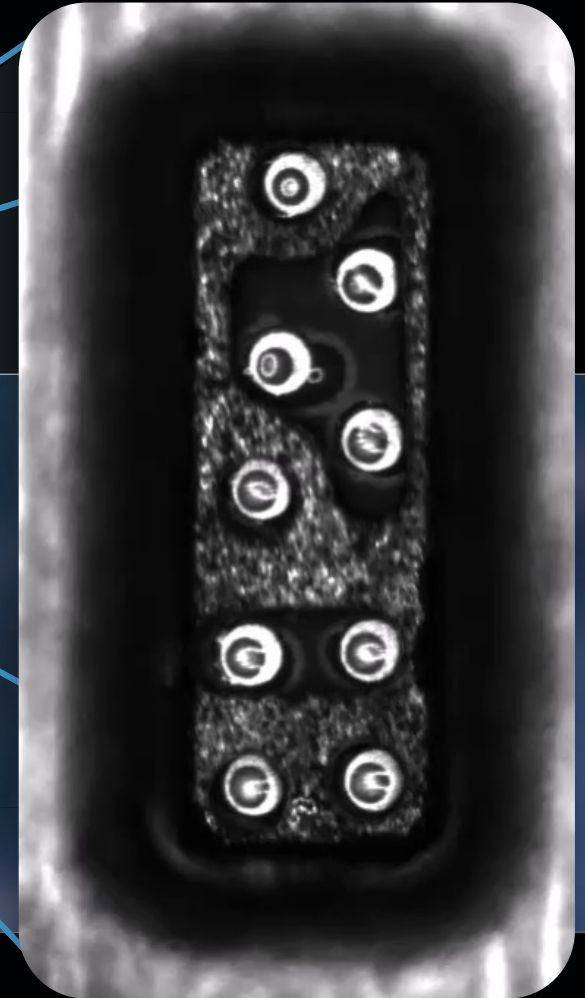
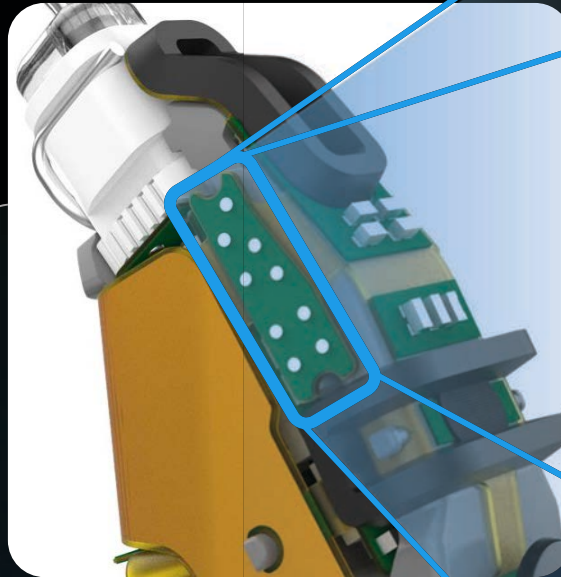
RIC 312 up to
6 days

CROS up to
4 days

Battery life based on M (50 gain) receiver

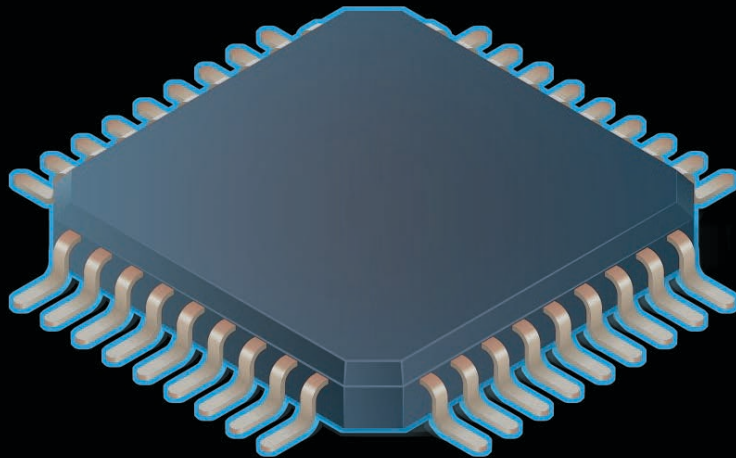
Enhanced Automation

Delivering reliability
through advanced,
automated soldering
processes



Next Generation Coating

Patent Pending



Lasts **10x*** longer
in Starkey's most stressful
salt brine test

30x
Saltier
than sweat

5x
Saltier than
the ocean

*Test stopped due to no failures



Uncoated



Coated



**Faster fittings,
greater satisfaction**



Starkey Pro Fit





Optimize Acoustic Model 2.0

Improved target modeling to
provide a more accurate Best Fit

ENHANCED

EXCLUSIVE TO OMEGA AI

Optimize Acoustic Model 2.0

65 dB SPL Target

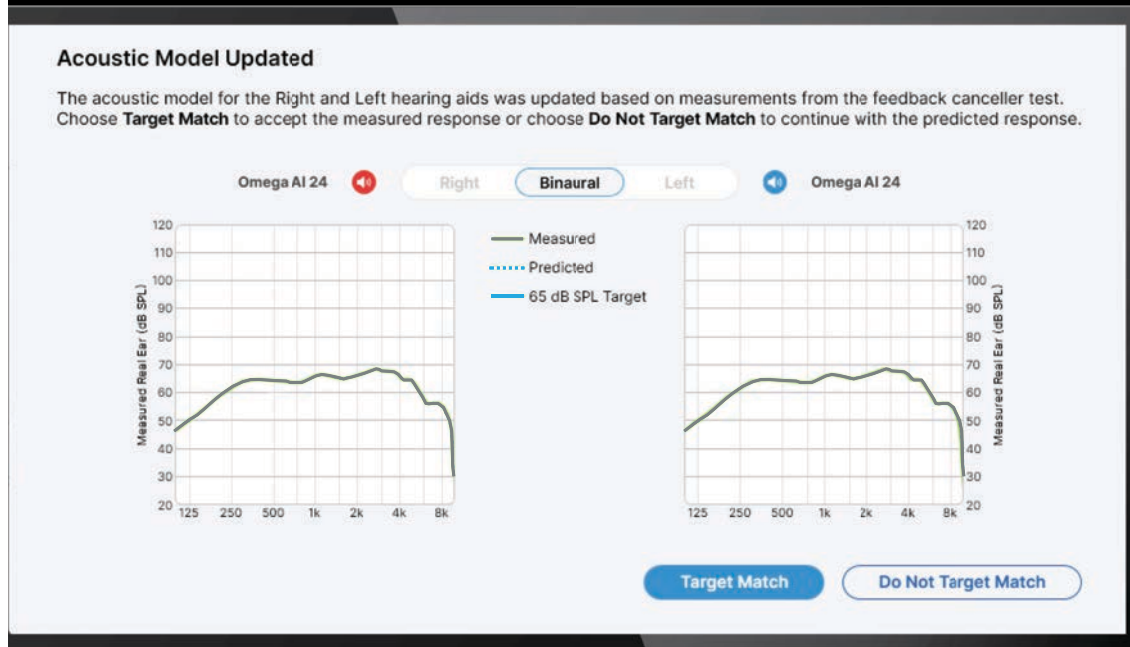
Initial Best Fit Target line based on Predicted Modeling

Predicted

The predicted real ear aided response in the given individual's ear without any gain adjustments

Measured

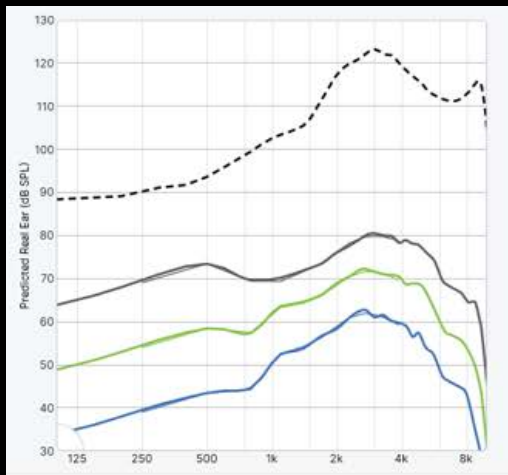
The predicted real ear aided response in the given individual's ear after gain adjustment using Optimize Acoustic Model 2.0



Modeling Selection

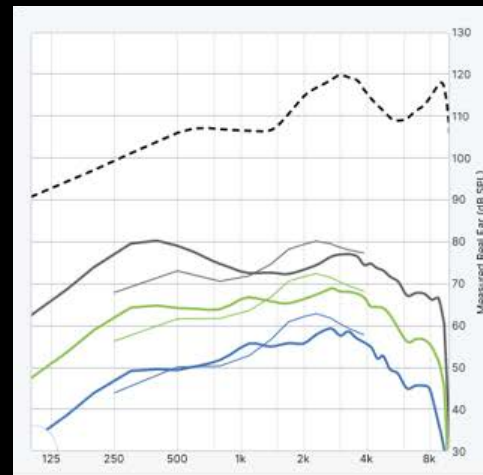
Target Match

Updates the frequency response to the newly modeled targets



Do Not Target Match

Updates the frequency response to account for Real Ear Insertion loss only





REM Target Match

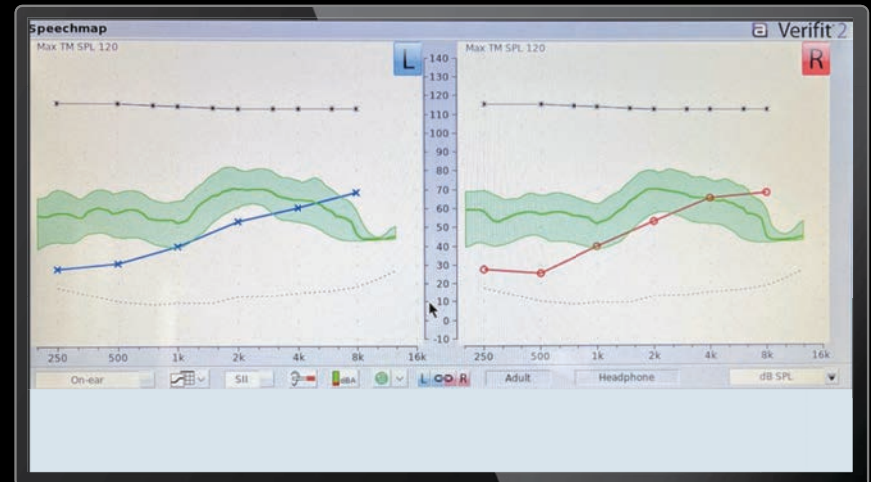
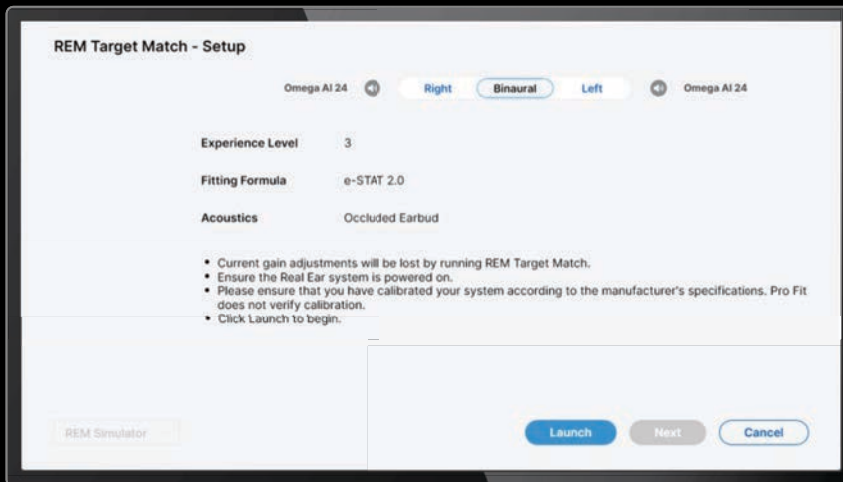
Providing your patients with a personalized, accurate and exceptional fitting

ENHANCED

REM Target Match + Verifit

REM Target Match
Target: e-STAT 2.0

Verifit 2



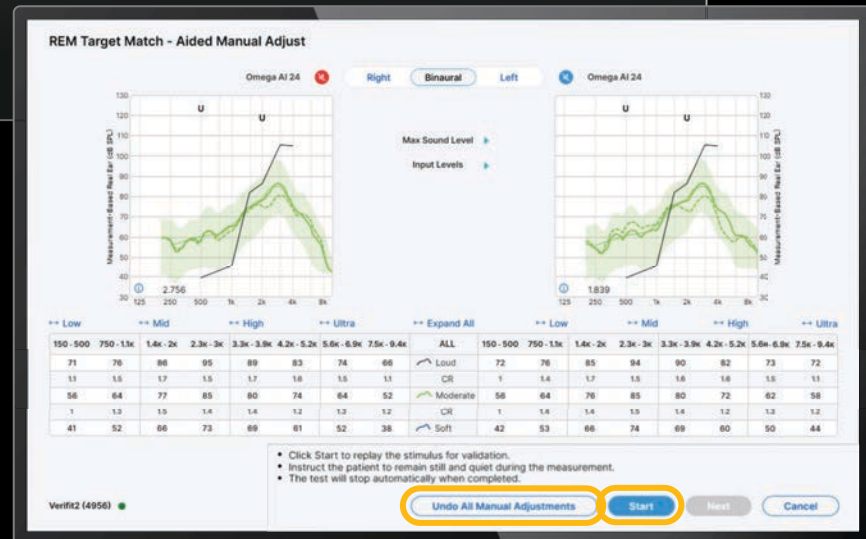
When REM Target Match is set to e-STAT 2.0: Pro Fit displays e-STAT 2.0 targets, Verifit does not display any targets

ENHANCED REM Target Match Manual Adjust

Available after REM Target Match Aided Auto Adjust



Select 'Skip' if manual adjustments are not needed



Select 'Start' to re-run
clear any manual adjustments measurement curves



Multiflex Tinnitus Pro

Delivering personalized
relief for each individual

ENHANCED

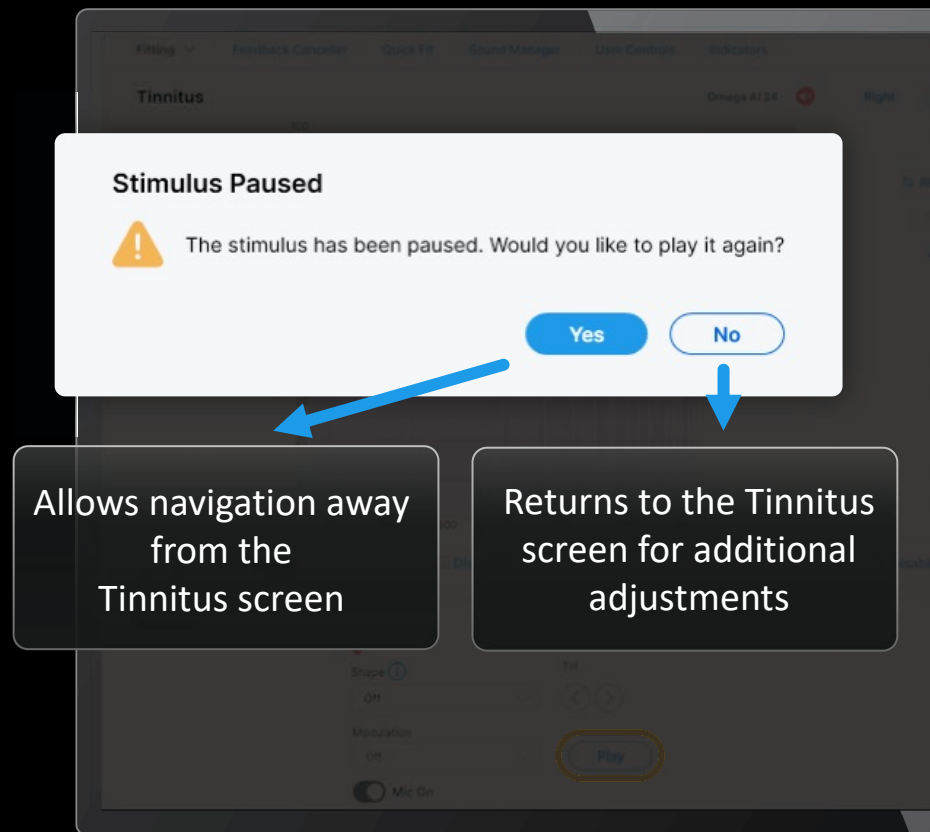
PROVIDER REQUESTED

Multiflex Tinnitus Pro

Tinnitus Play/Pause allows professionals to consider the stimulus shape and settings prior to playing the stimulus

Defaults 'Paused'

The tinnitus stimuli must be playing to navigate away from the Tinnitus screen



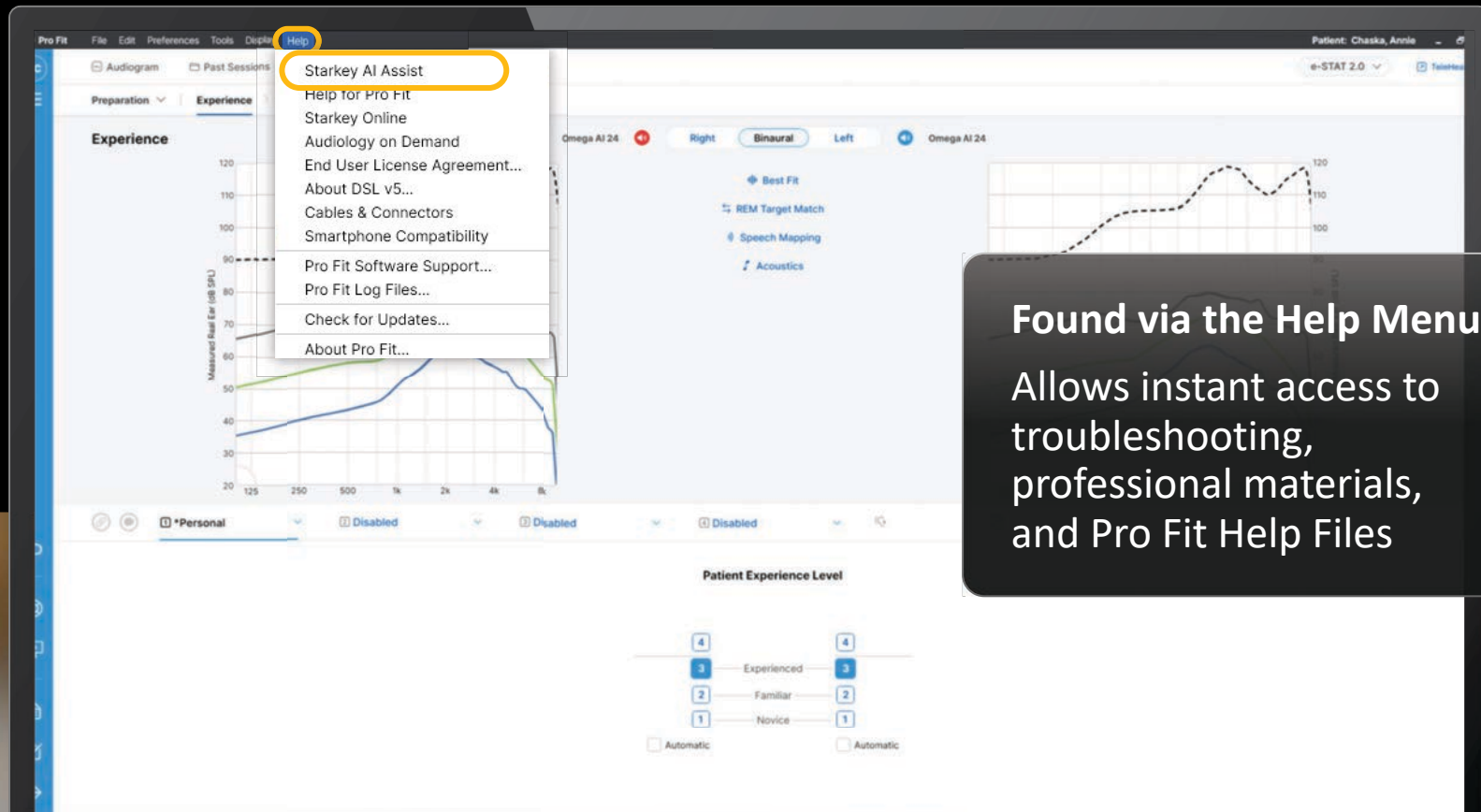
A man with grey hair and glasses, wearing a white lab coat, is seen from behind, sitting at a desk in a modern office. He is looking at a computer monitor that displays a line graph. The office has a large window, a potted plant, and a lamp.

Starkey AI Assist

Answers your product-related
questions by leveraging Gen AI
and current Starkey content

ALL NEW

Starkey AI Assist



Found via the Help Menu

Allows instant access to troubleshooting, professional materials, and Pro Fit Help Files



Session Notes

ALL NEW

**Automatically track Pro
Fit adjustments**

**Quickly assign adjustments
to patient complaints**

**Upload into electronic
medical records**

Session Notes

Add today's topics. Topics can include complaints and issues that require fitting adjustments. Enter each topic as a separate item.

Assign Adjustments

Associate adjustments with today's topics. Drag adjustments below to the topics on the right.

Today's Adjustments [Select All](#)

▼ Programs

✚ Environment Change: Disabled » Music [2](#) Music [B](#) [L](#)

▼ User Controls

✚ Short Press: Program » Volume [B](#) [L](#)

✚ Double Tap: Disabled » Edge Mode+ [B](#) [L](#)

▼ Accessories

✚ Bluetooth Devices Hearing aid mic while streaming: Mic Reduced » Mic Off [B](#) [L](#)

▼ Experience

✚ Patient Experience Level: 3 » 1 [B](#) [L](#)

Today's Topics

▼ Choir Issues

No adjustments assigned.

[Check at next session](#)

[Topic resolved](#)

▼ BGN Struggles

No adjustments assigned.

[Check at next session](#)

[Topic resolved](#)

▼ Streaming Issues

No adjustments assigned.

[Check at next session](#)

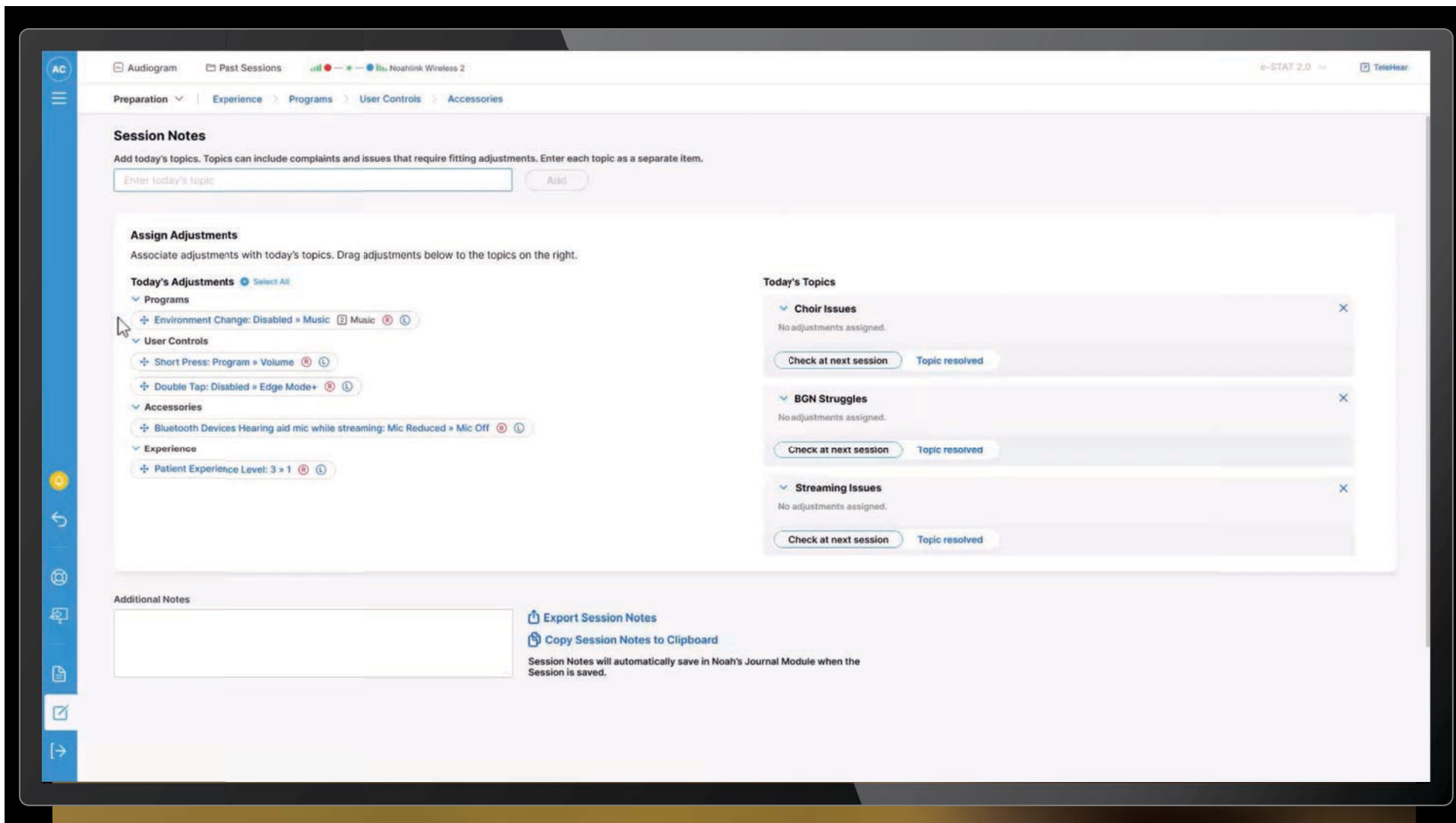
[Topic resolved](#)

Additional Notes

[Export Session Notes](#)

[Copy Session Notes to Clipboard](#)

Session Notes will automatically save in Noah's Journal Module when the Session is saved.



When exiting Pro Fit, you must select 'Yes' to ensure Session Notes are saved

Save Session As

[Visit Session Notes to add and export details »](#)

Hearing aid settings and features are automatically saved to the devices.
Please disconnect the devices at your convenience.

Do you want to save your session?

Yes

No

Cancel

Session Notes will automatically save in Noah's Journal Module when the Session is saved.

Saving Session Notes

Session Notes are saved within the Noah Journal Module

 Click on the eye icon to view

Saving Session Notes

Session Notes

Session Notes

Add today's topics. Topics can include complaints and issues that require fitting adjustments. Enter each topic as a separate item.

Enter today's topic:

Assign Adjustments

Associate adjustments with today's topics

Today's Adjustments

- Programs
- Environment
- User Controls
- Short Phrases
- Double Tap
- Accessories
- Bluetooth Devices
- Experience

Session Notes

Last Visit's Topic: BGN Struggles

Was this resolved?

Session Notes

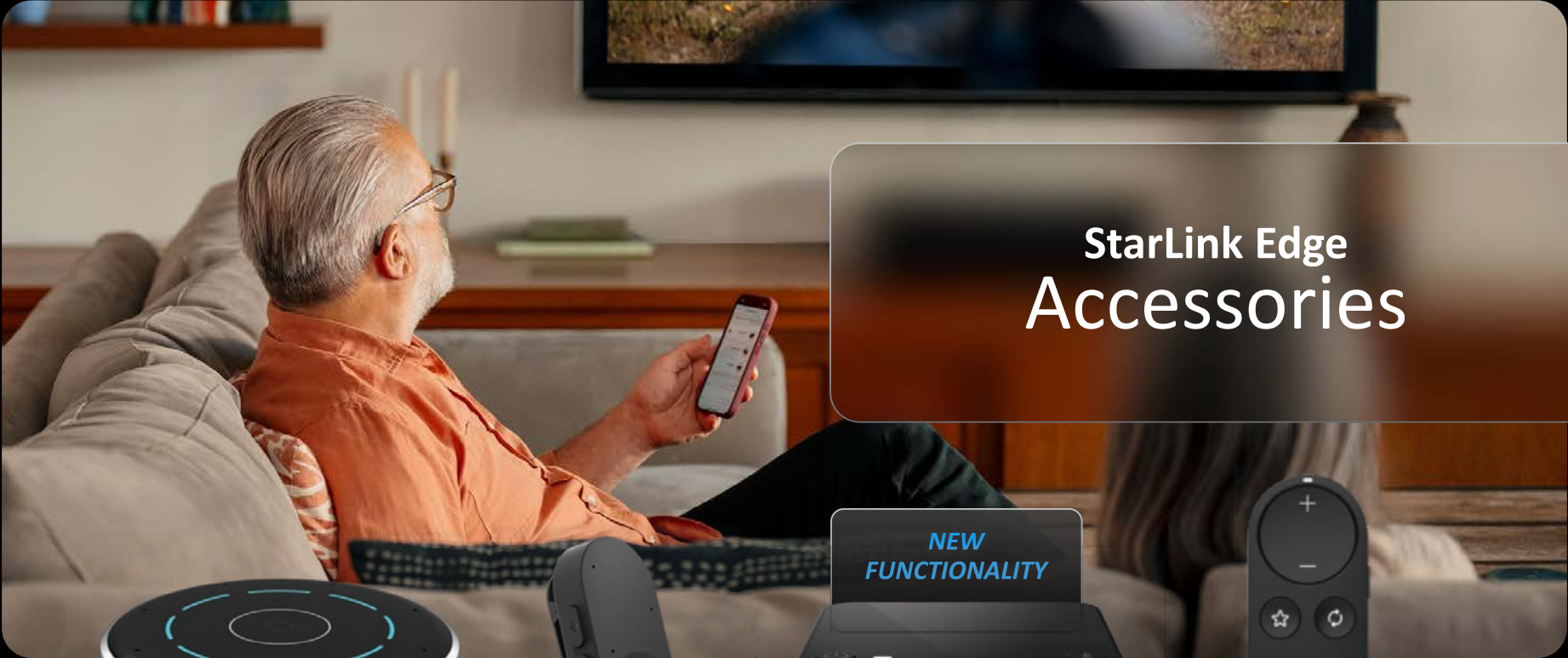
Session notes not complete.

Will add topic to Today's Visit

Session Notes will automatically save in Mozi's Journal Module when the Session is saved.

Hear with clarity, **connect with confidence**





StarLink Edge Accessories



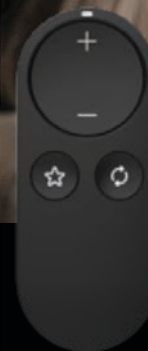
StarLink Edge
Table Microphone



StarLink Edge
Remote Microphone



StarLink Edge
TV Streamer



StarLink
Remote Control 2.0



StarLink Edge TV Streamer

Auto Stream

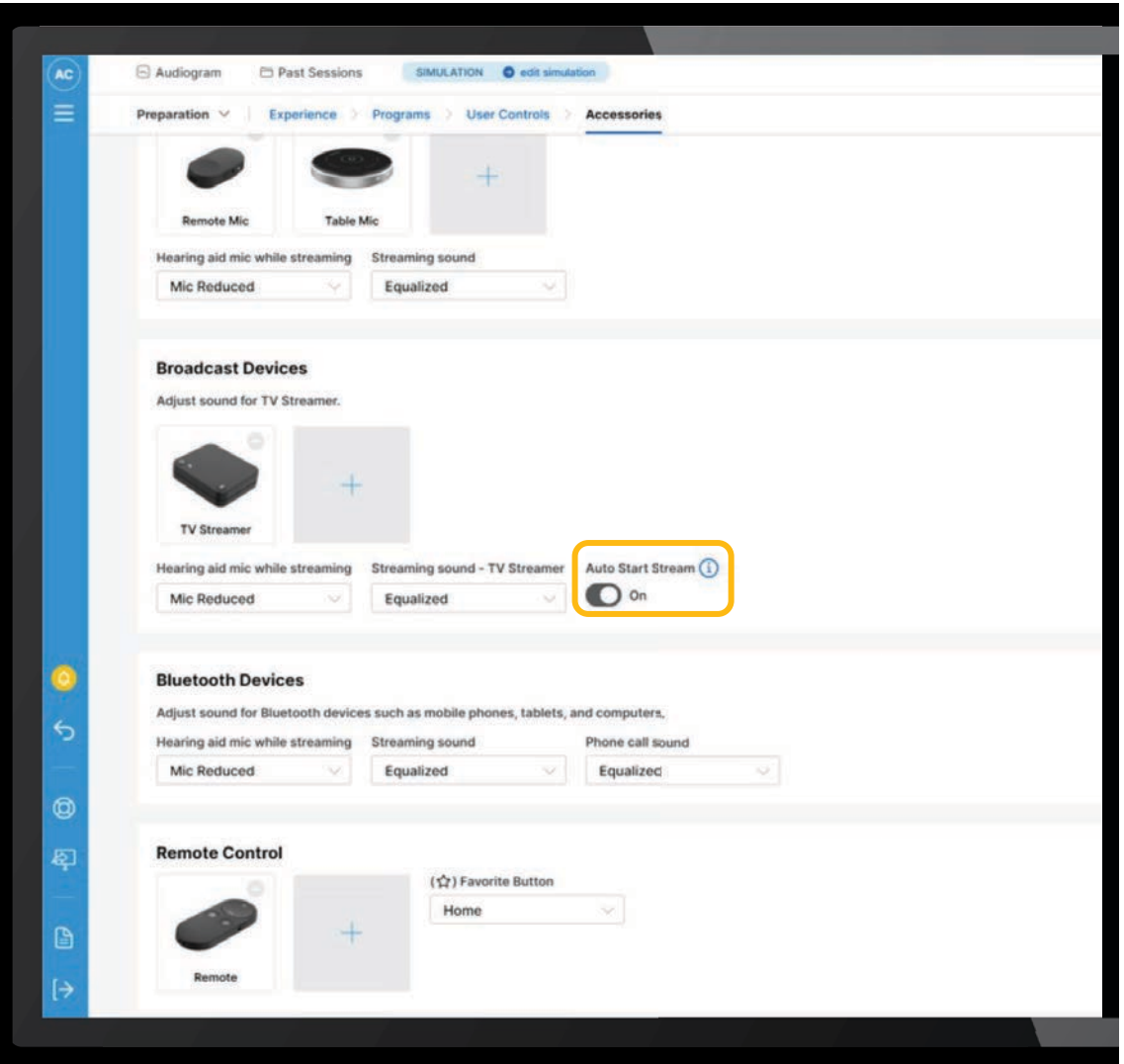
Automatically starts and stops streaming
when the hearing aids are within range

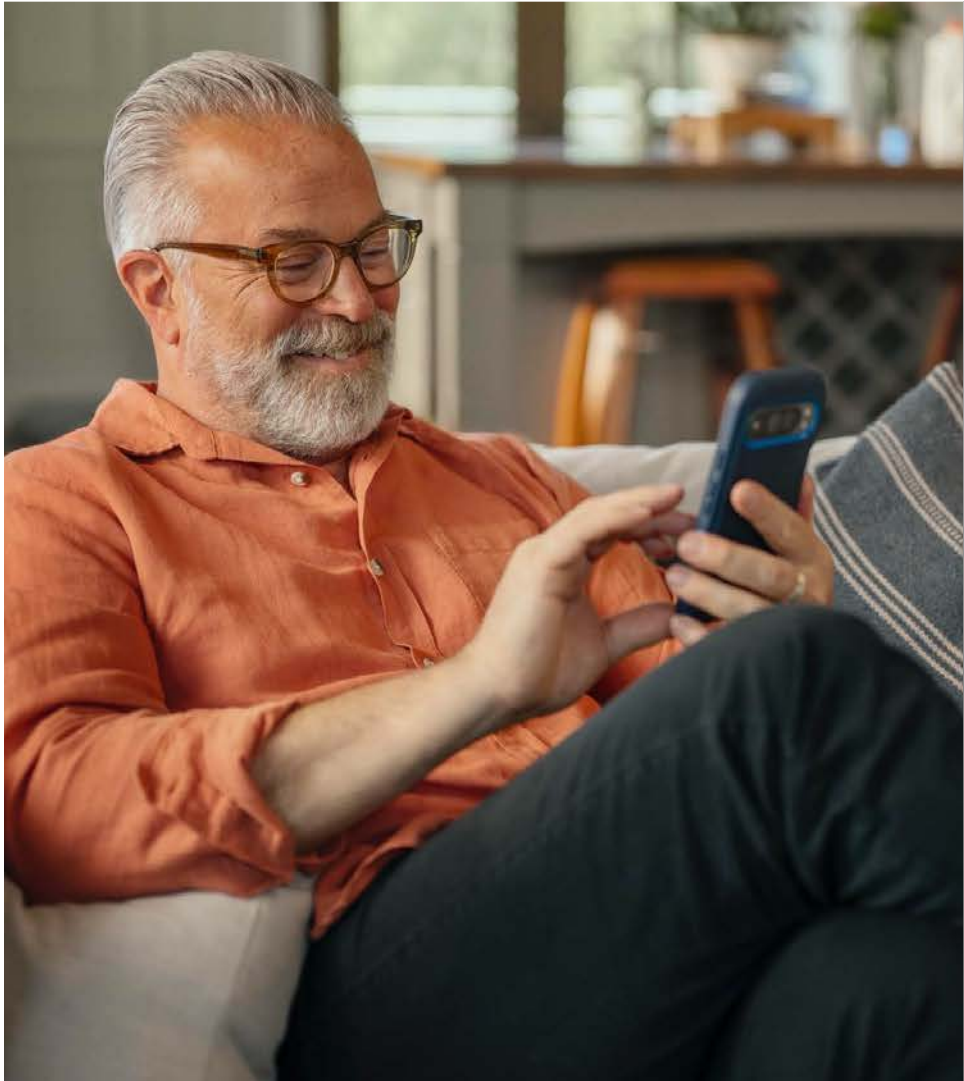
Exclusive to Omega AI

Auto Start Stream

Configures the hearing aid to automatically scan and connect to broadcast signals from the TV Streamer

Defaults **On**





Gen AI Smart Assistant

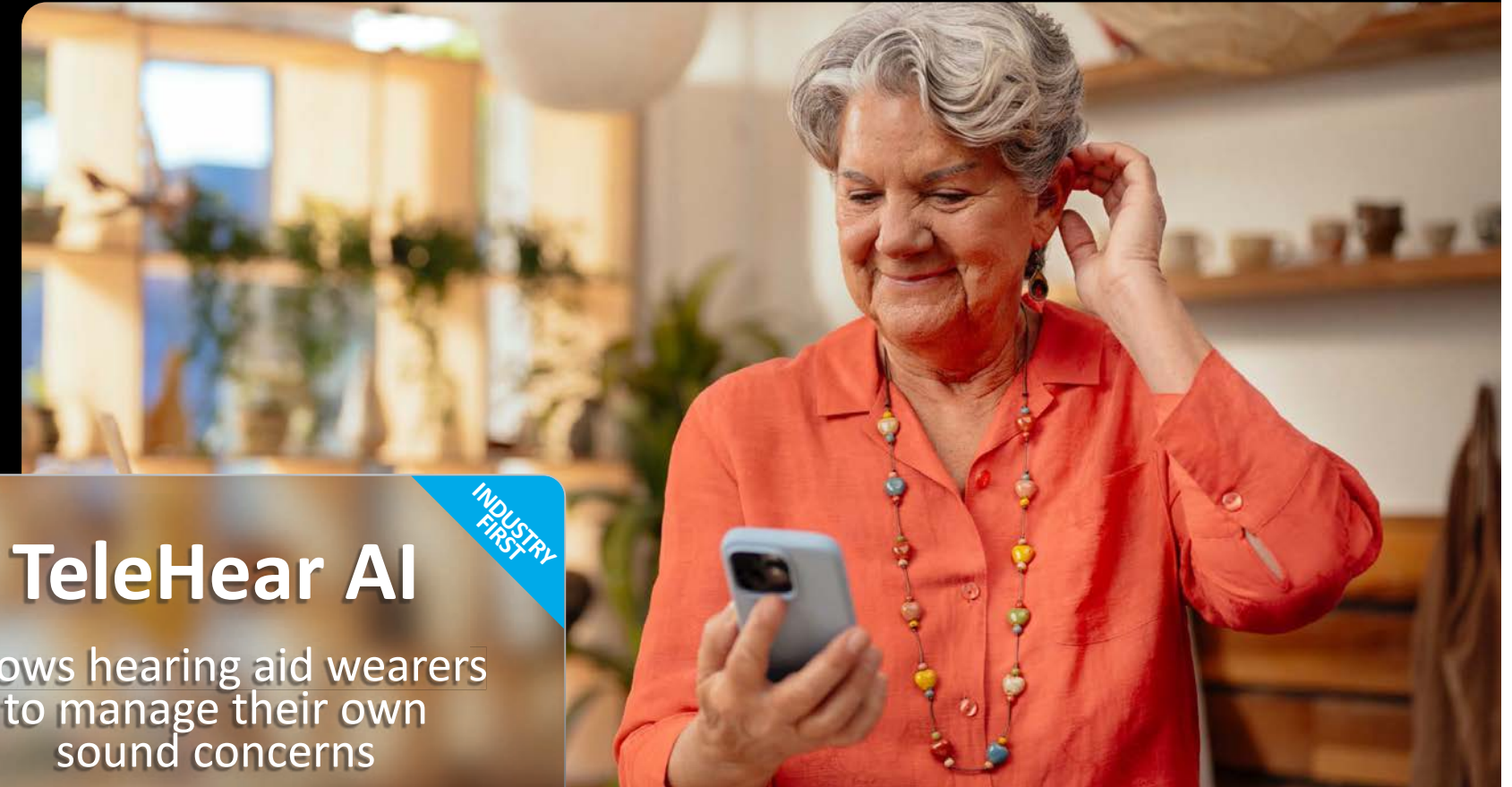
Supports hearing aid
mic pick-up

ENHANCED

Allows patients to get hands-free
help using their voice

Receive detailed answers to
questions, switch programs, set
reminders, and more





TeleHear AI

Allows hearing aid wearers
to manage their own
sound concerns

INDUSTRY
FIRST

TeleHear

Synchronous

Remote Programming

Live virtual session
with provider

Real time changes made

Asynchronous

Remote Programming

Help request sent to
provider by the patient

Not in real-time

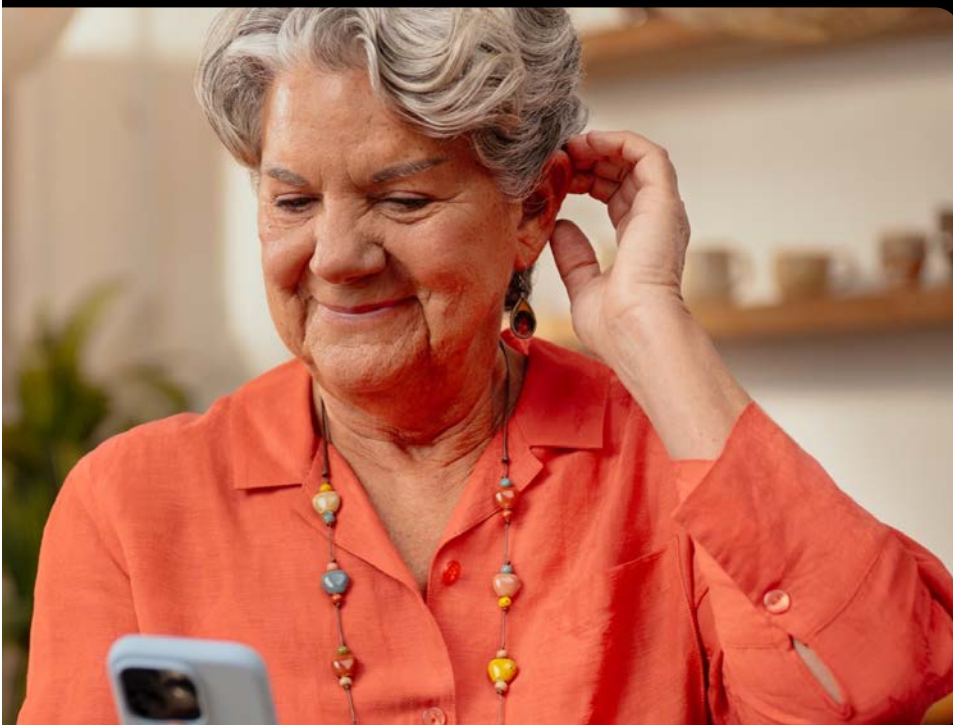
TeleHear AI

Adjustments

Patient interacts with
Gen AI technology to
improve hearing aid
settings

Real time changes made

INDUSTRY
FIRST

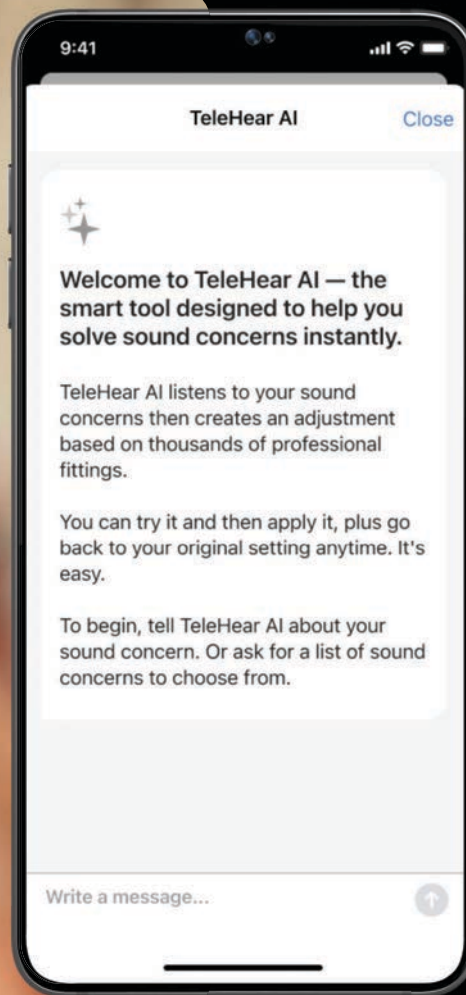
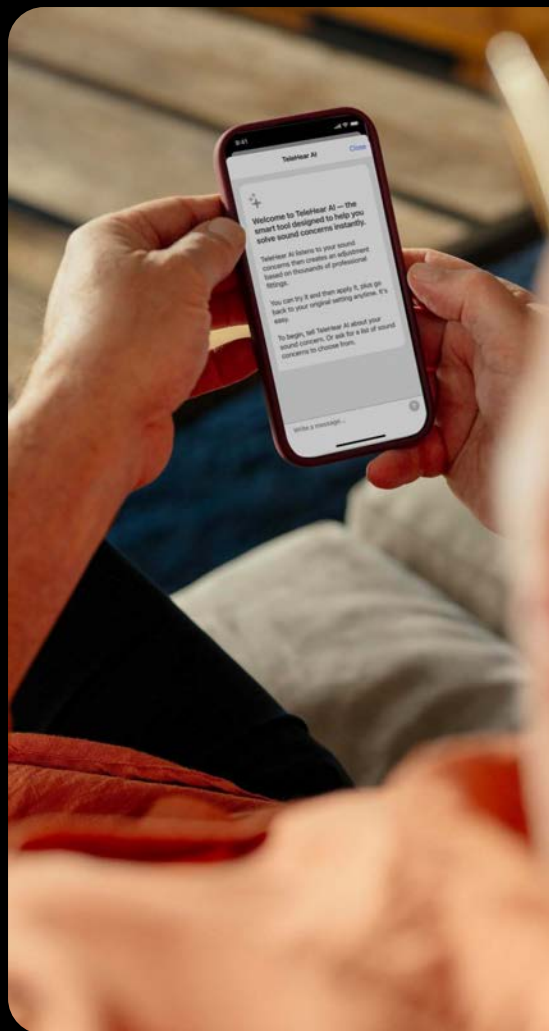


TeleHear AI

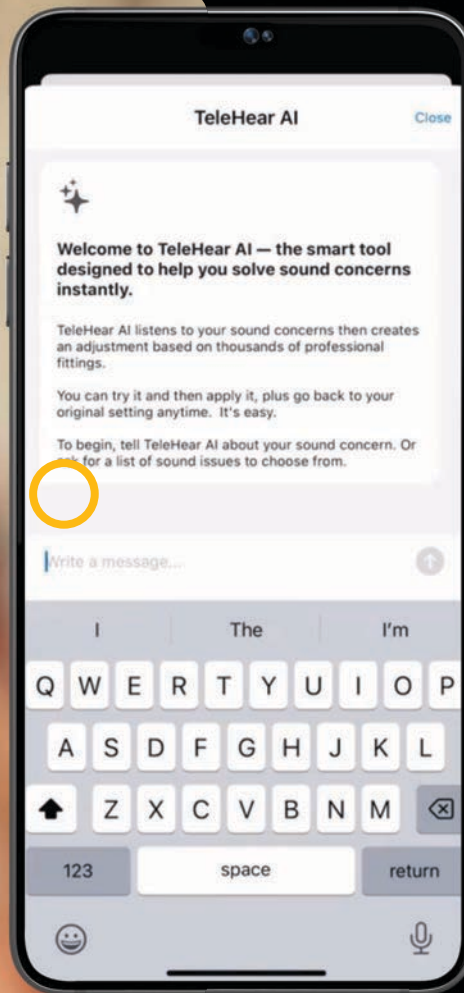
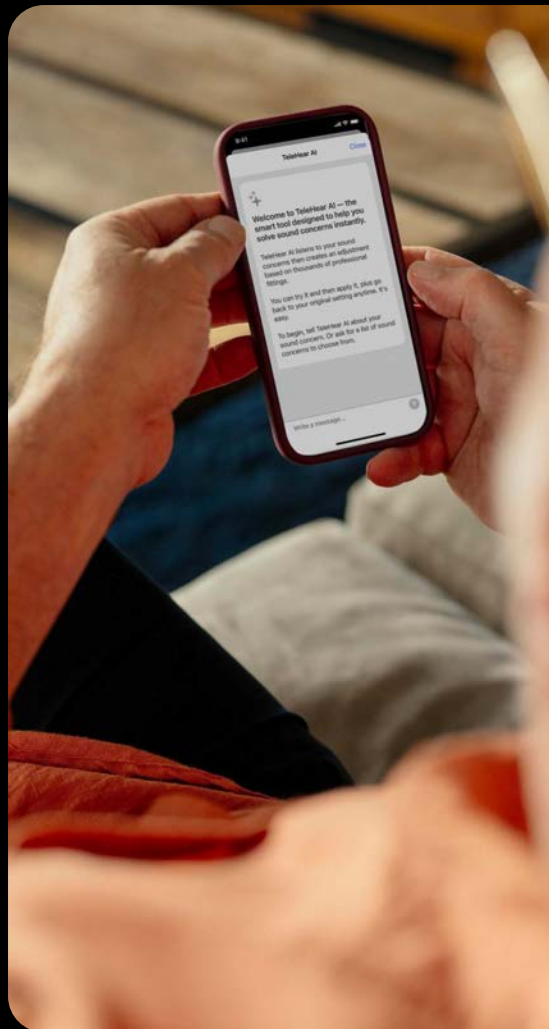
Patients describe their sound concerns via a conversational interface

AI interprets the issue and offers adjustments based on professional expertise

Exclusive to Omega AI 24



Getting Started with TeleHear AI



Using TeleHear AI



TeleHear AI

Good to Know

TeleHear must be configured by the provider

Adjustments are only made to the Personal program

Patients may save TeleHear AI settings as a custom program

Patient can only revert to the provider's settings

TeleHear AI Professional Notifications

Attention

The settings in the hearing aids are newer than this patient's most recent saved session. Would you like to save the current settings to your office system before proceeding with programming?

Yes

No

Cancel

Usage Hearing Aids **Help Requests** Alert History Settings

No new Help Requests.

⊕ [Closed] TeleHear AI - 27 June 2025

⊖ [Closed] TeleHear AI - 27 June 2025 ✓ Add clinical note 📁 Archive Help Request

🟢 TeleHear AI via MyStarkey App

27 June 2025 • 3:43 PM

↳ [AI Summary]: Keys rattling is too harsh or loud

✓ Issue resolved: **Decrease loud gain 3000-10000 Hz by 4 dB**

⊕ [Closed] TeleHear AI - 27 June 2025

⊕ [Closed] TeleHear AI - 27 June 2025

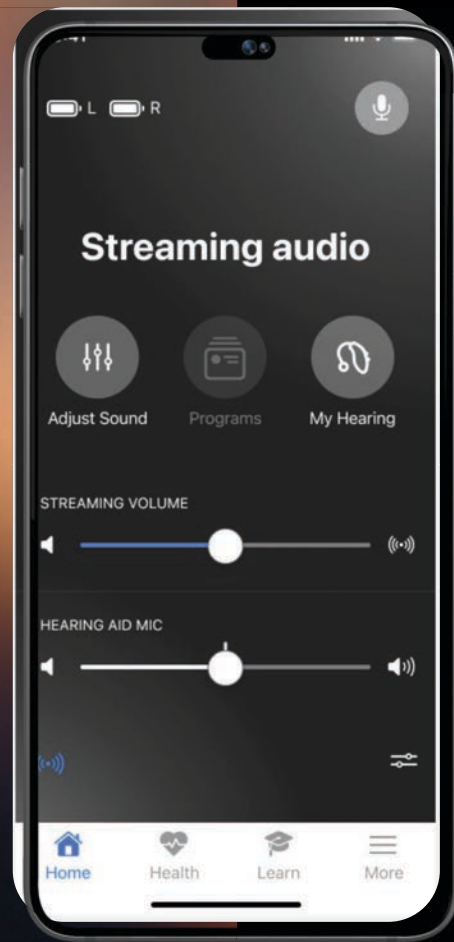
⊕ [Closed] TeleHear AI - 27 June 2025

Pro Fit

Provides notification if the patient makes changes using TeleHear AI

TeleHear Portal

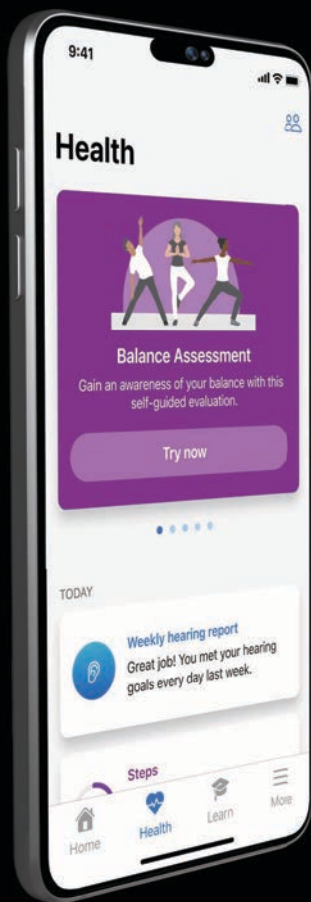
Changes made for the patient via TeleHear AI will be visible under 'Help Requests'



ENHANCED

Audio Streaming Volume

Adjust streaming volume independently of the hearing aid volume via the streaming volume slider



Wellness at their fingertips

ALL NEW
Balance Builder

ALL NEW
Respiratory Rate





Balance Builder

Helps patients proactively prevent falls through physical awareness exercises designed to bolster balance and stability

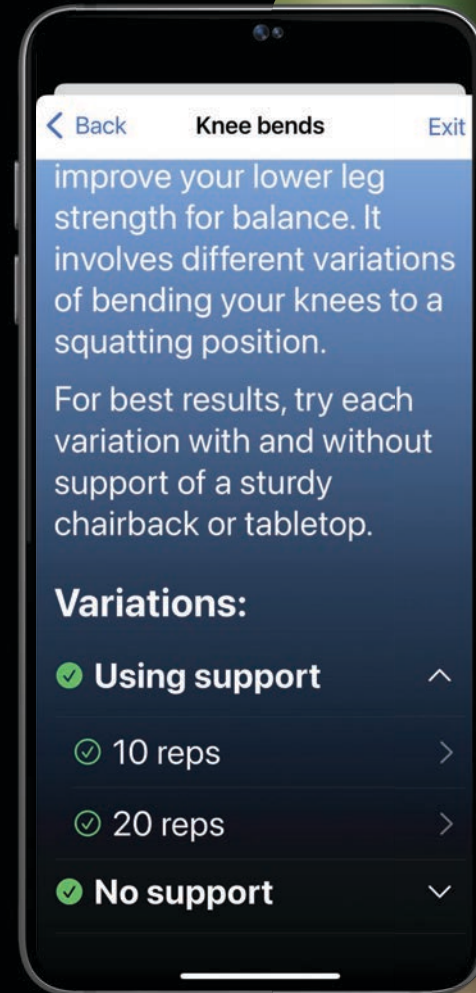
ALL NEW

Balance Builder

Several exercise variations
available in each category

Exercises increase in difficulty as
each variation is successfully
completed

Option to skip variations



A man with a white beard, wearing a yellow hoodie and tan pants, is standing on a path covered in fallen yellow leaves. He is performing a balance exercise by lifting his right leg and holding it with his right hand, while his left arm is extended outwards for balance. The background shows trees with yellow leaves, suggesting an autumn setting.

Balance Assessment

Exercises based on the
CDC's STEADI Program

Quickly assess elements
of balance

Performed as needed

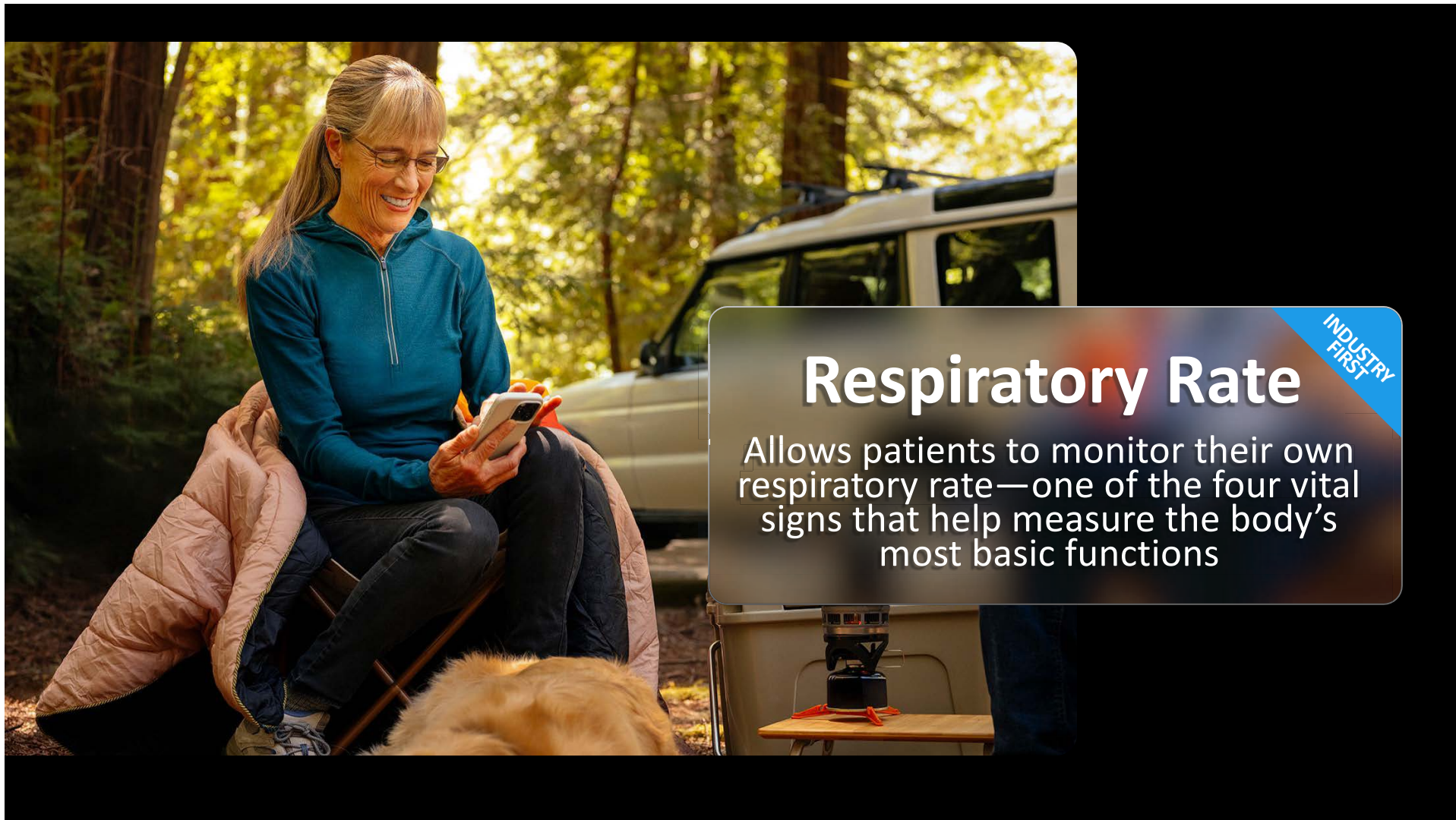
EXCLUSIVE TO OMEGA AI

Balance Builder

Exercises similar to
those from the Otago
Exercise Program

Exercises help strengthen
elements of balance

Perform exercises regularly



Respiratory Rate

Allows patients to monitor their own respiratory rate—one of the four vital signs that help measure the body's most basic functions

INDUSTRY
FIRST

INDUSTRY FIRST Respiratory Rate

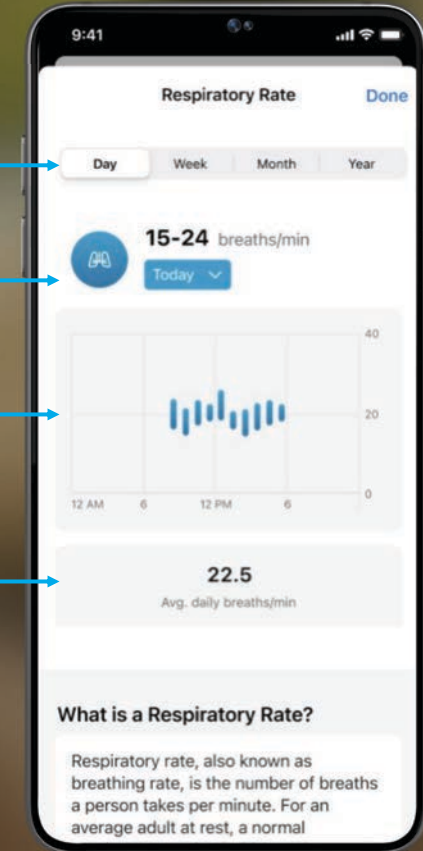
Using the IMU sensors on board the hearing aids, respiration rate is measured automatically every three minutes when at rest

View timeframe options

Range for selected timeframe

Graphed view of respirations

Average for selected timeframe



End User License Agreement (EULA)

Starkey is Not Providing Healthcare Services

You understand and agree that Starkey is not, by reason of supplying the App, providing medical or healthcare services, or acting as your medical or healthcare provider. Starkey, in providing the App, is not acting as a physician, audiologist, or any other medical services provider. The content and operation of the App is not, and should not be considered, medical or healthcare advice or services. You understand and agree that you are solely responsible for obtaining proper treatment for your health conditions, and that you will seek all appropriate treatment from healthcare

The App and information generated by the App is not a substitute for regular professional care and monitoring.

own risk, acknowledging that the App is provided without warranty except as required by law or otherwise expressly set forth in this Agreement.

Respiratory Rate

The My Starkey mobile application includes a feature for viewing a user's respiration rate which is measured by

This feature is intended solely for informational purposes and should not be used as a substitute for professional medical advice, diagnosis, or treatment.

OMEGA^{AI}

Better hearing **all around**



References

ARTE Database: Ambisonic Recordings of Typical Environments (Weisser, A., Buchholz, J. M., Oreinos, C., Badajoz-Davila, J., Galloway, J., Beechey, T., & Keidser, G. (2019). The Ambisonic Recordings of Typical Environments (ARTE) database. *Acta Acustica united with Acustica*, 105(4), 695-713. <https://doi.org/10.3813/AAA.919349>)

N3 audiogram: A standard audiogram configuration used for hearing aid testing. (Bisgaard, N., Vlaming, M. S., & Dahlquist, M. (2010). Standard audiograms for the IEC 60118-15 measurement procedure. *Trends in amplification*, 14(2), 113–120)

Starkey White Paper: Enhancing Directionality with Deep Neural Networks.2025

