

Welcome to a new ERA

Rochelle Wong, AuD

Webinar FAQs

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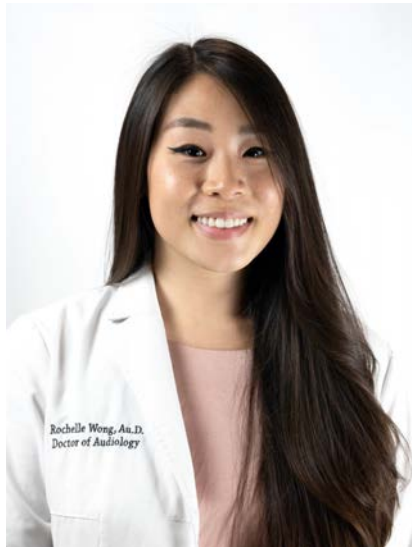


PHONAK
life is on

Welcome to a new ERA with Phonak Infinio.

Unlock a world of possibilities

Speaker



Financial disclosure: Speaker is employed by Phonak US

Non-financial discloser: None

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 screening 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.

Learning objectives

As a result of this activity, the participants will be able to:

- Explain the possible applications and benefits of artificial intelligence in hearing care
- List the new Phonak portfolio of products, features, and performance levels
- List the benefits of the new Phonak portfolio for both HCPs and patients



Infinio

**Exceptional
sound quality
from the
first moment**



**Market
leading
connectivity
takes a giant
leap forward**



**Tested.
Reliable.
Proven. Swiss
engineering
at its best**



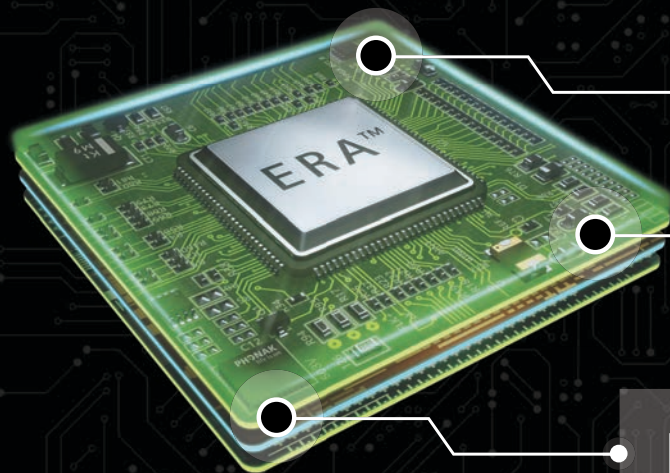
**Personalized
for you and
your patients**



**Clean and clear
speech far
beyond any
existing hearing
technology**



Introducing ERA, our new ultra-responsive chip for Infinio



Connectivity

Digital Sound
Processing

Power Management



Audéo I-Sphere



Phonak
ChargerGo RIC
Sphere Infinio



Audéo I-R



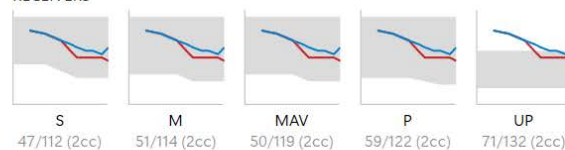
Phonak Charger
RIC Infinio



Phonak
ChargerGo RIC
Infinio



RECEIVERS



DESCRIPTION

Premium AI powered water resistant RIC (rechargeable) for mild to profound hearing loss. Supports direct Bluetooth® connectivity.

FEATURES

- AutoSense OS premium
- Adaptive Phonak Digital 3.0
- Spheric speech clarity
- SpeechSensor
- Speech enhancer
- Health functionalities
- Dynamic noise cancellation
- StereoZoom 2.0
- Speech in car
- SoundRecover2
- SoundRelax
- Tap control
- Motion sensor hearing
- WindBlock
- RogerDirect
- Water resistant

> More information

Our design. Ready for rain, ready for dust, ready for life.



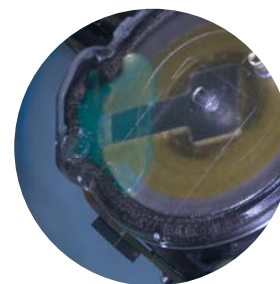
Parylene-coated internal circuitry



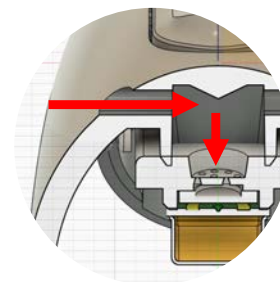
Protected housing



Fully encapsulated battery



Improved microphone protection



CROS I-R compatibility



*Not compatible with Audéo I-Sphere



Charger RIC
Infinio



ChargerGo RIC
Infinio

SDS 6.0

New 00 length
(00, 0, 1, 2, 3)

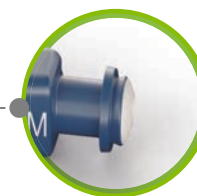


Same dome options



8-pin tool-free
receiver port

How to change a
SDS 6.0 receiver.

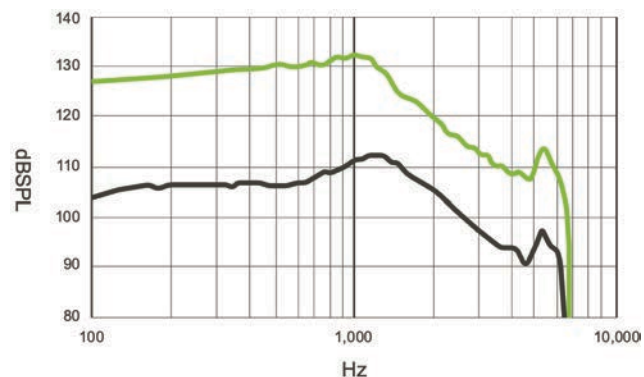


Cerustop wax filter



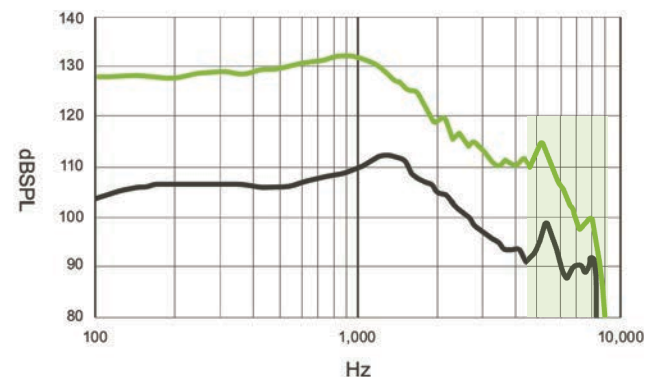
SDS 6.0 Upgraded UP receiver with increased bandwidth

Audéo Lumity – UP receiver



Max. Power Output (dB SPL)	Max. Gain (dB)	Frequency Range (Hz)
132	71	<100 - 6100

Audéo Infinio – UP receiver



Max. Power Output (dB SPL)	Max. Gain (dB)	Frequency Range (Hz)
132	71	<100 - 8000

Frequency response

— Full-on-gain (Input 90 dB SPL) — Basic Frequency Response (Input 60 dB SPL)

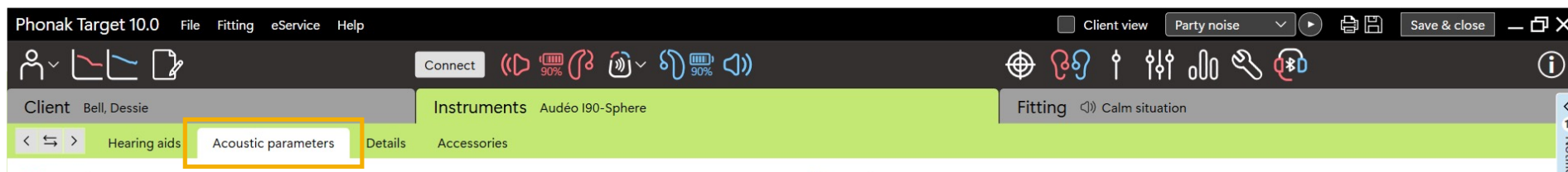
SDS 6.0

Dedicated
CROS Tube



New receiver
handling tool
026-1620



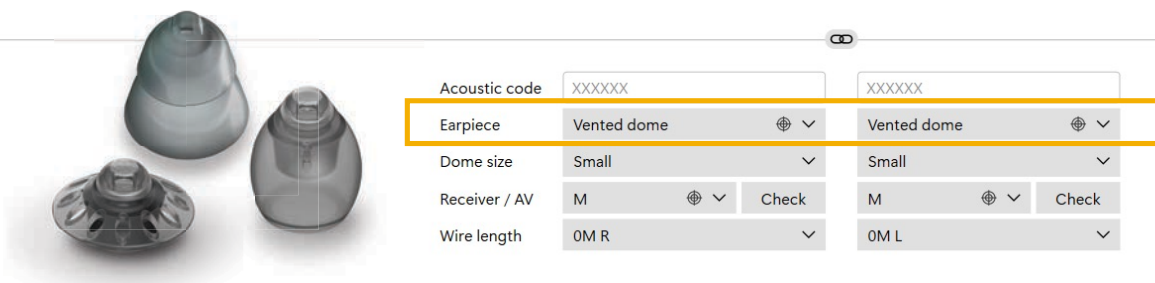


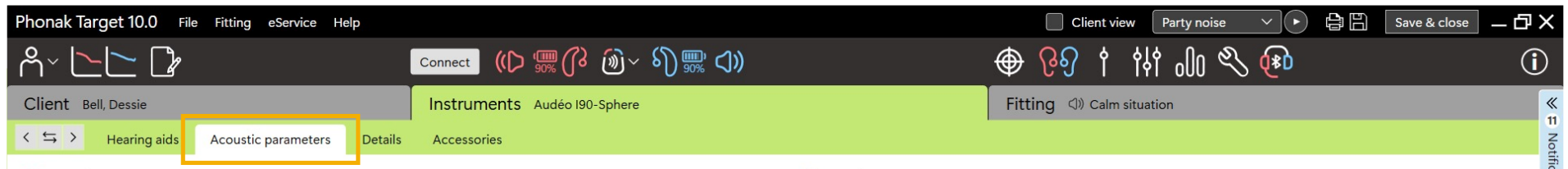
AI Dome Proposer

used to determine dome recommendation based on successful fittings around the world

Recommendation based on

- Hearing thresholds – especially asymmetrical hearing loss
- Fitting formula
- Experience level (New)
- Binaural vs. monaural fitting (New)





Acoustic Optimized Vent (AOV)

- Patented algorithm by Sonova
- Venting length and shape to maximize the vent effect
- Modelled in 3D before production
- Many different vents are possible

Acoustic code	XXXXXX	XXXXXX
Earpiece	Vented dome	Vented dome
Dome size	Small	Small
Receiver / AV	M	M
Wire length	0M R	0M L



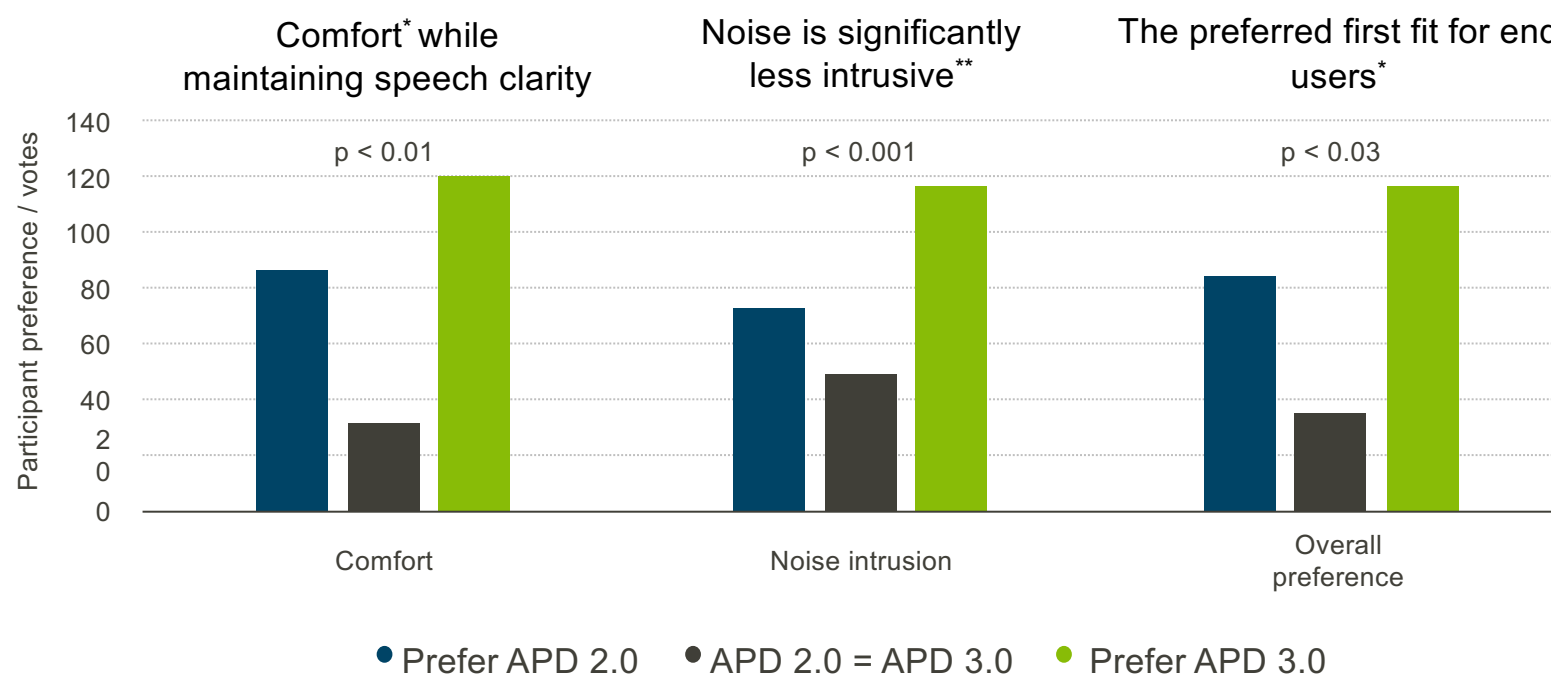


PHONAK
life is on

Exceptional
Sound Quality.



Listeners love APD 3.0



*compared to APD2.0

Phonak internal study results. N = 20 participants

**as rated by end users in a study comparing APD3.0 to APD 2.0

Phonak Target 10.0 File Fitting eService Help

Client view Party noise Save & close

Connect 90% 90%

Client Bell, Dessie Instruments Audéo I90-Sphere Fitting Calm situation

Feedback & real ear test AudiogramDirect Global tuning **Fine tuning** DataLogging Device options

Program manager >>

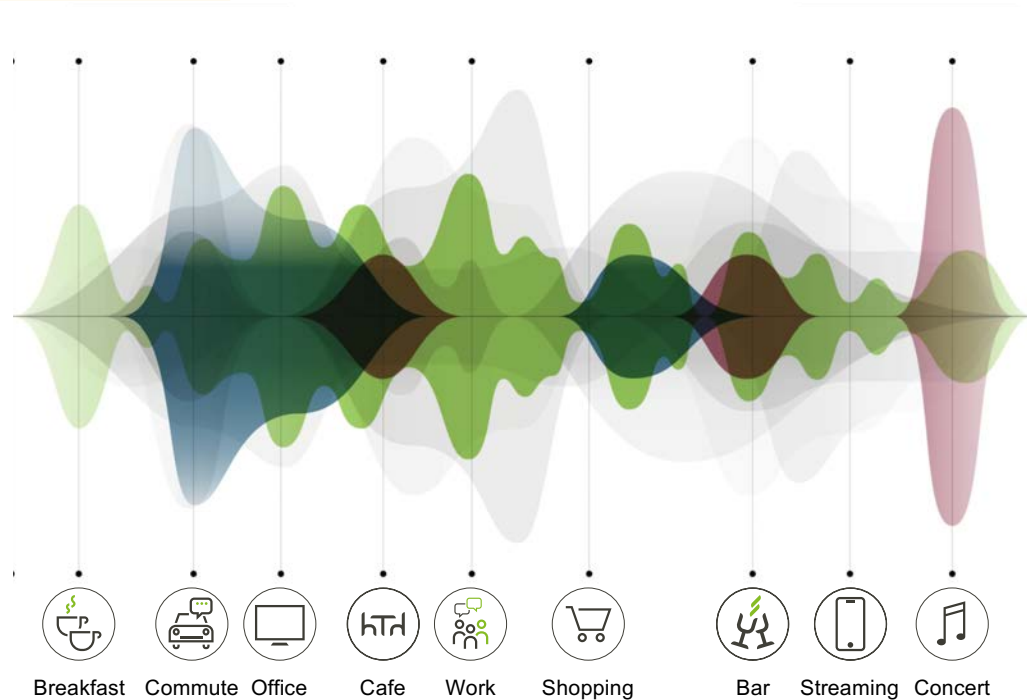
ALL PROGRAMS

✓ AUTOMATIC PROGRAMS 8

- AutoSense OS
- Calm situation
- Speech in noise
- Spheric speech in loud noise
- Speech in car
- Comfort in noise
- Music
- AutoSense OS (streaming)
- Media speech + mic
- Media music + mic

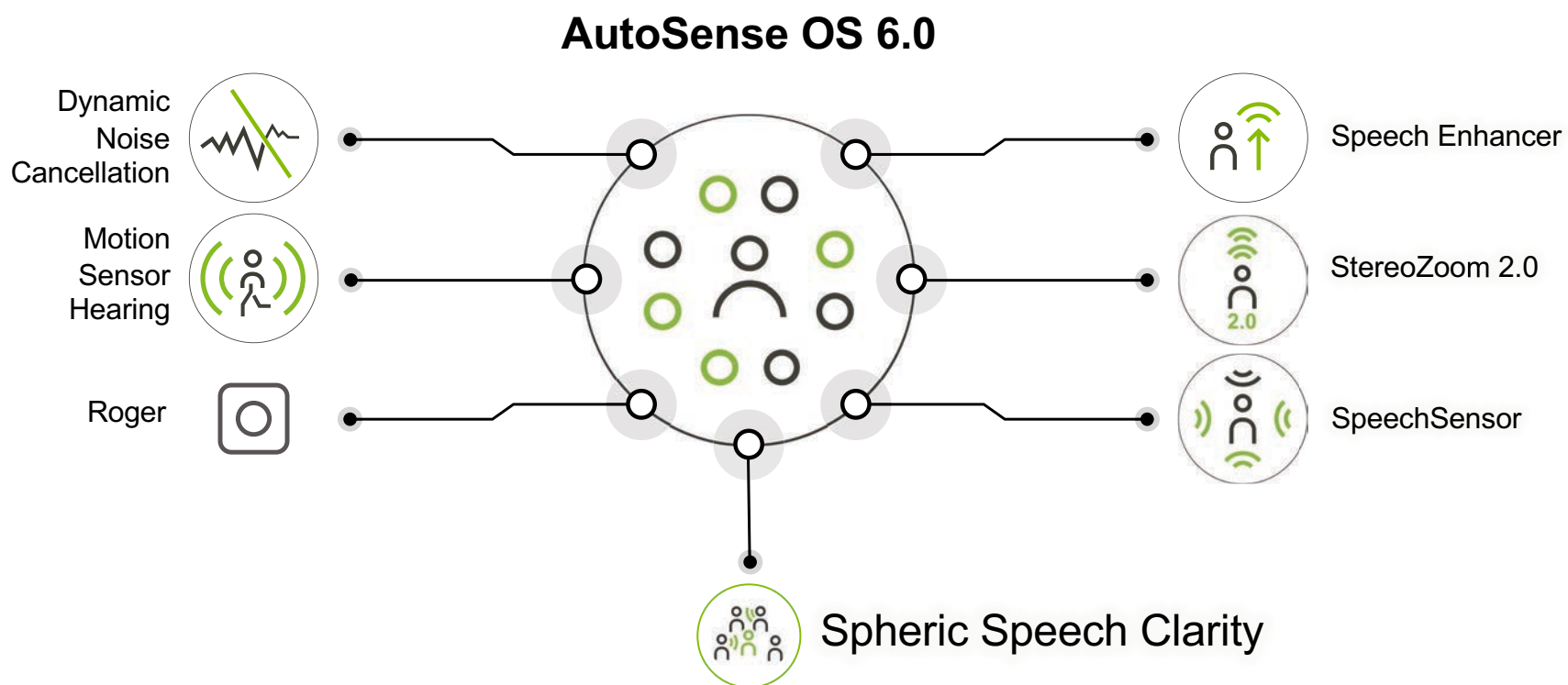
> STREAMING PROGRAMS 3

ADDITIONAL PROGRAMS +



Automatic processing seamlessly adjusts

AutoSense OS 6.0 orchestrates SmartSpeech Technology



Phonak Target 10.0 File Fitting eService Help

Client view Party noise Save & close

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Program manager >>

ALL PROGRAMS

▼ AUTOMATIC PROGRAMS 8

AutoSense OS

Calm situation 🔊 ▼

Speech in noise

Spheric speech in loud noise

Speech in car

Comfort in noise

Music

📶 AutoSense OS (streaming)

Media speech + mic

Media music + mic

> STREAMING PROGRAMS 3

ADDITIONAL PROGRAMS +

Hearing aid microphone

Real ear sound 4

Speech enhancer 14 Moderate

21%

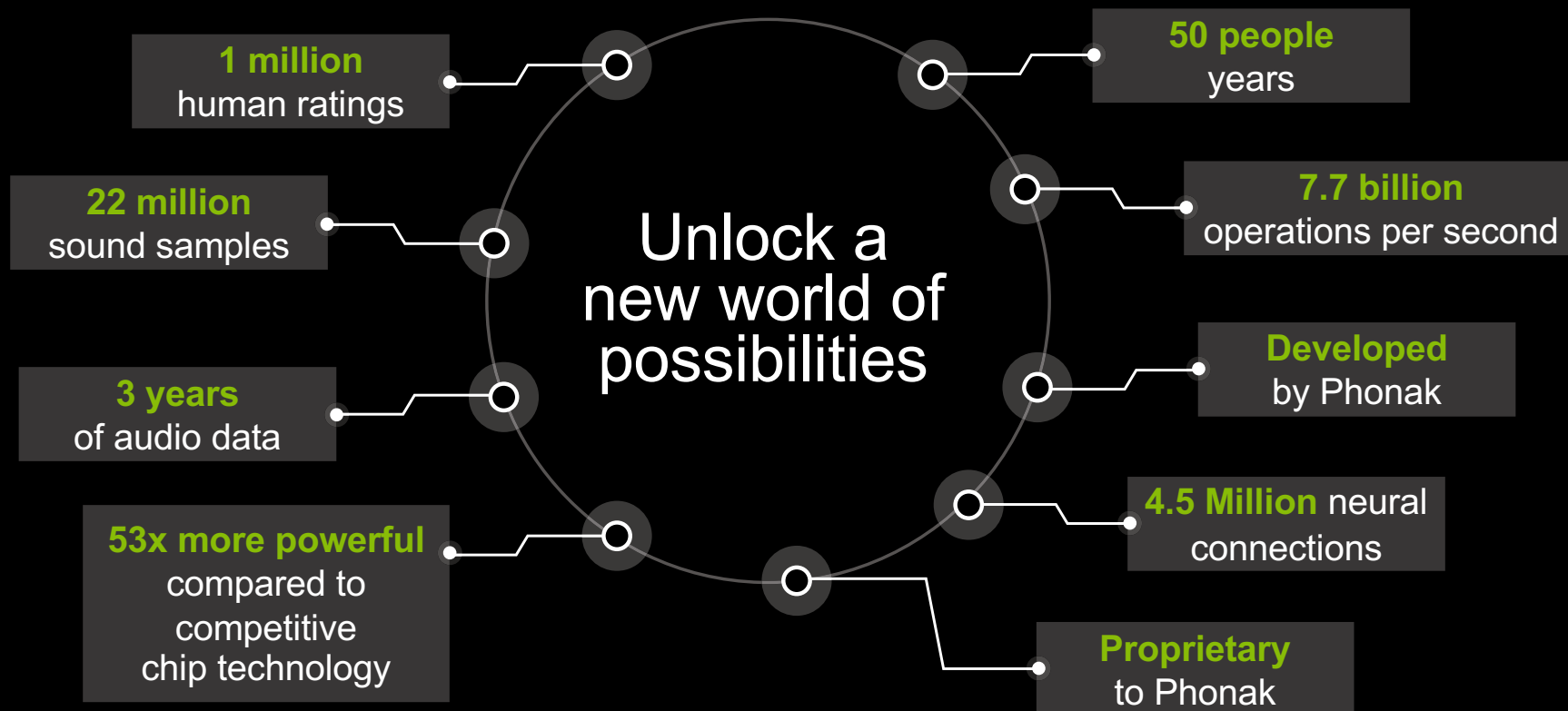
less fatigue at the end of the day¹

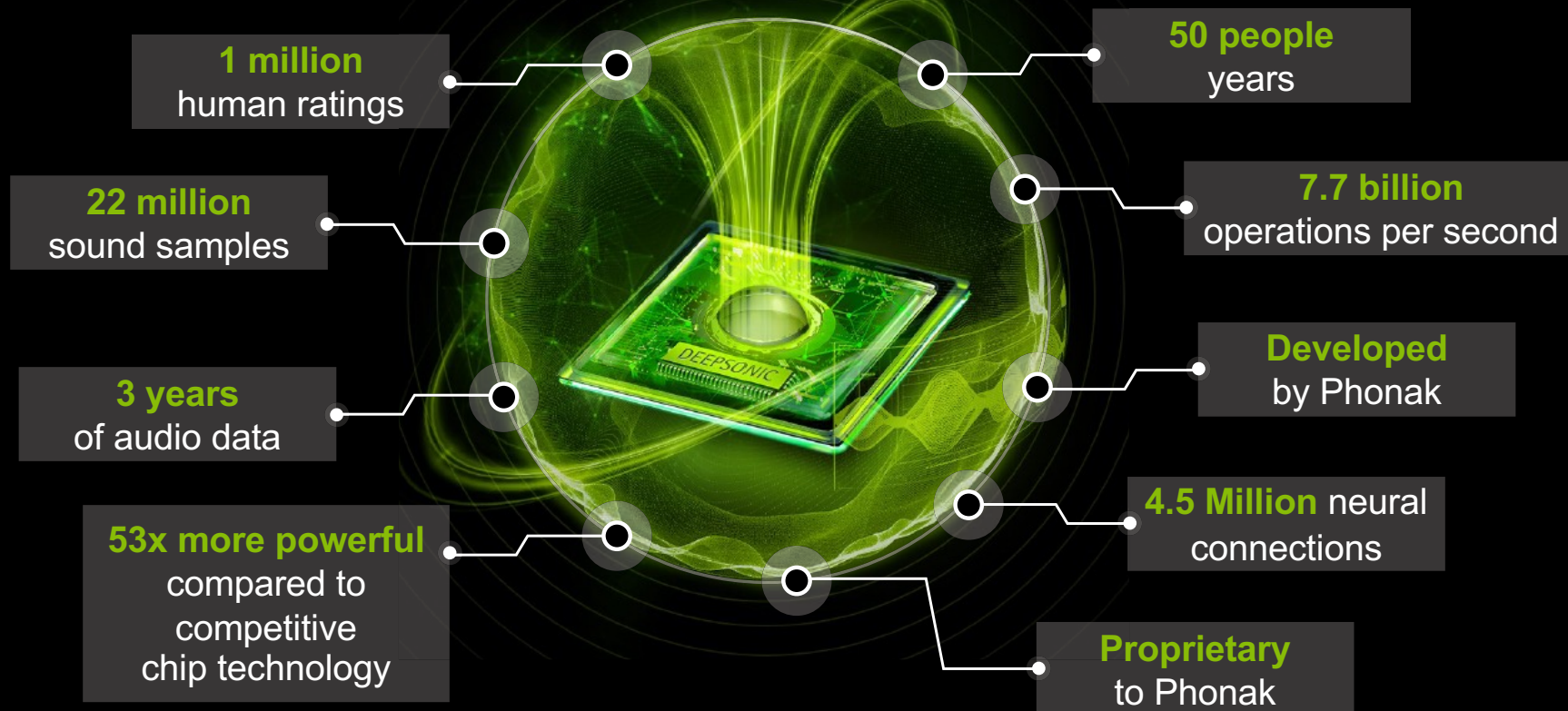
Improved memory and comprehension performance¹

*Speech Enhancer on versus off

1. Latzel, M, Heeren, J and Lesimple, C. (2024) "Speech Enhancer reduces listening effort and fatigue." Phonak Field Study News retrieved from www.phonak.com/evidence







What is DEEPSONIC?



DEEP Spheric **O**ptimized **N**eural
Integrated **C**hip

World's first proprietary DNN sound
processing chip

Works in **parallel** with **ERA**

**For unprecedented speech
clarity in noise**

Spheric Speech Clarity

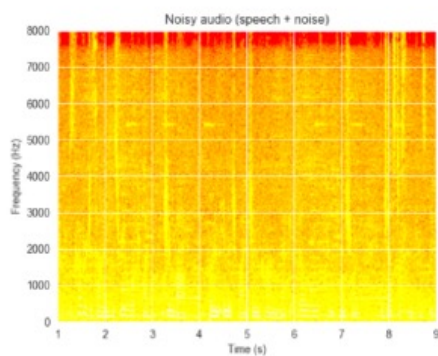
Before



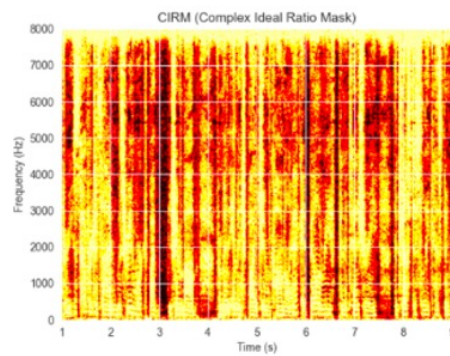
After



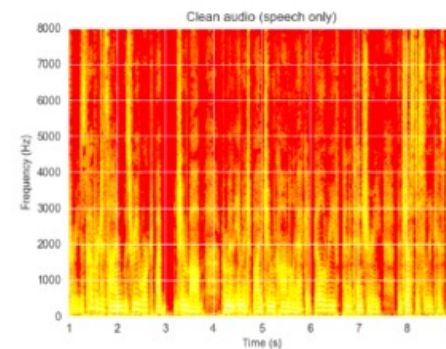
Noisy audio (speech + noise)



Separate speech and noise



Clean audio (speech only)





Spheric Speech Clarity OFF



Spheric Speech Clarity ON





The benefits of Spheric Speech Clarity

- Up to 10dB SNR improvement*
- Predicted to provide up to 150% more access to speech cues**
- Clearer speech allows to focus on what's relevant
- Instant all-around speech understanding
- Regardless of the number of speakers



** (according to SII (ANSI S3.5, 1997))

Clinical evidence on Spheric Speech Clarity



2-3x

more likely to understanding every word, from any direction, compared to two leading competitors.¹

2x

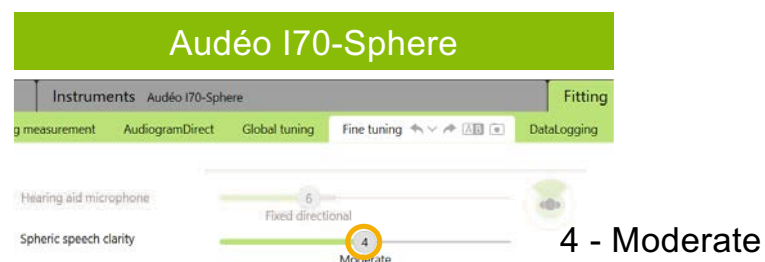
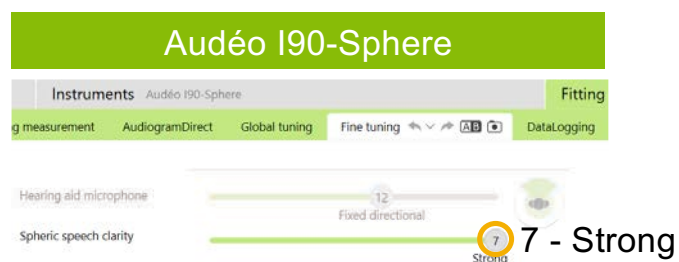
More likely to understand speech from any direction with Spheric Speech Clarity.*¹

*compared to without

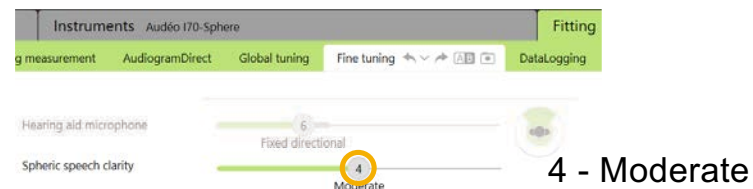
1. Wright, A., et al "Spheric Speech Clarity applies DNN signal processing to significantly improve speech understanding from any direction and reduce the listening effort ." Phonak Field Study News in preparation expected August 2024

Spheric speech clarity slider per tech level & acoustic coupling

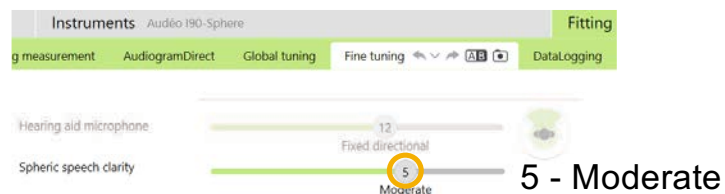
Open dome



Vented dome



Power dome/
Occluded vent



Optimizing the Infinio Sphere battery

<

↔

>

Feedback & real ear test

Acoustic coupling measurement

AudiogramDirect

Global tuning

Fine tuning

↶

↷

↶

↷

AB

📷

DataLogging

Device options

Program manager >>

ALL PROGRAMS

▼ AUTOMATIC PROGRAMS 8

AutoSense OS ▼

Calm situation 🔊

Speech in noise

Spheric speech in loud noise

Speech in car

Comfort in noise

Music

🔊 AutoSense OS (streaming)

Media speech + mic

Media music + mic

> STREAMING PROGRAMS 3

ADDITIONAL PROGRAMS +

Program transition speed

2

Balanced

"Motion sensor hearing" for speech in noise & loud noise

3

Wide

👤👤👤

"Spheric speech in loud noise" in automatic programs

✓ Enable as automatic program

Activation level

10

Loud noise

Battery save mode

✓ Limit automatic program access to 3 h/d

Gain & MPO

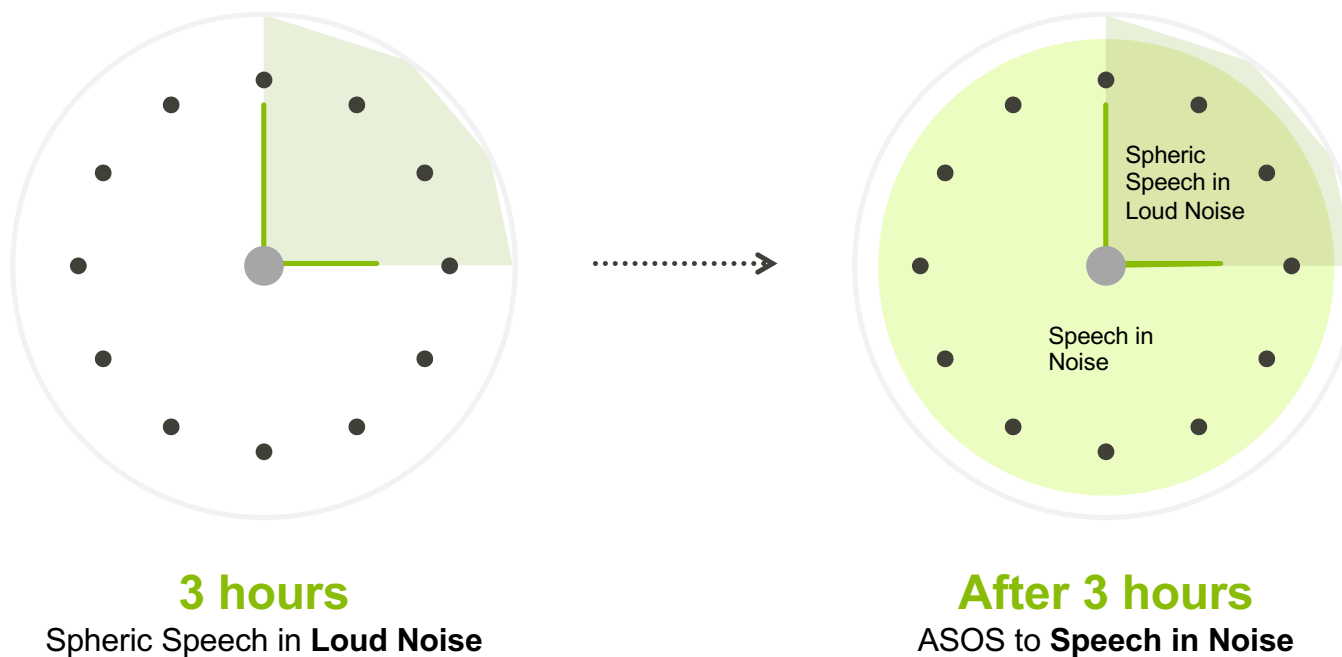
Program options

Audibility fine tuning

SoundRecover2

Automatic fine tuning

Optimizing the Infinio Sphere battery



What's new in Audéo I-R & Audéo I-Sphere

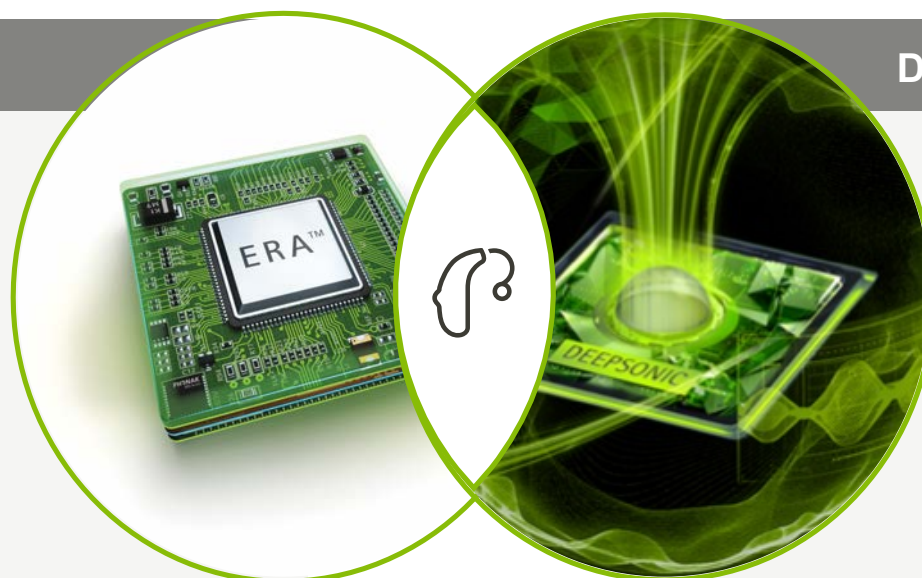
PHONAK
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Core features		Performance level	Phonak SmartSpeech™ Technology				Comfort		ASOS environments update
			DNN Chip	Spheric Speech Clarity	Speech Enhancer	StereoZoom 2.0	SoundRelax	Real Ear Sound	Speech in Car
ERA chip	New AutoSense 6.0 APD 3.0	I-Sphere Premium (90)	DEEPSONIC	Full Strength New	X	Manual	X	X	X
		I-Sphere Advanced (70)		Medium Strength New		Manual	X	X	X New
		I-R Premium (90)			X	Part of ASOS	X	X	X
		I-R Advanced (70)				Manual Prog	X	X	X New
		I-R Standard (50)					X New	X	X New
		I-R Essential (30)						X New	

Infinio Sphere provides the best of both worlds with AI

Machine learning

- Efficient algorithms
- Optimized over a long development time period
- Best suited for environmental classification
- AutoSense OS



Deep Neural Networks

- Power intensive
- Superior potential for background noise removal
- Best suited for speech enhancement
- Spheric Speech Clarity

A hybrid AI approach to improve hearing aid performance

A circular inset image showing a middle-aged man with a beard, wearing a dark blue polo shirt and light-colored trousers, sitting at a table in a cafe. He is holding a smartphone in his right hand and gesturing with his left hand while looking at the screen. The background is blurred, showing other people and the interior of the cafe.

Personalization and Connectivity.

Phonak Target 10.0 File Fitting eService Help

Client view Party noise Save & close

Client Bell, Dessie Instruments Audéo I90-Sphere Fitting Calm situation

Feedback & real ear test AudiogramDirect Global tuning Fine tuning DataLogging **Device options**

HEARING AIDS
R: 2425H05U0
L: 2425H05U1

ROGER RECEIVER
R: No Roger receiver installed
L: No Roger receiver installed

SERVICES
Reports...
Check warranty
Available apps
Phone compatibility
Hearing aid support
Accessory & charger support

Behavior Standard Streaming Phone call

SHORT PRESS
Volume (with L/R sync)
±10 dB (±5 steps)

LONG PRESS
Program change
AutoSense OS (Startup)
Button down has same function

DOUBLE TAP
No function in Standard

Tap Control is OFF by default

BUTTON FUNCTIONS
✓ Volume
✓ L/R sync (QuickSync)
✓ Program change
✓ Accept/end call
Mute/unmute mic (not for phone call)

TAP CONTROL
Accept/end call
Pause/resume streaming
Start/stop voice assistant
Training & sensitivity...

Manual controls Bluetooth Signals & alerts Startup

Phonak Target 10.0 File Fitting eService Help

Client view Party noise Save & close

Connect 88% 88%

Client Bell, Dessie Instruments Audéo I90-Sphere Fitting Calm situation

Feedback & real ear test AudiogramDirect Global tuning Fine tuning DataLogging **Device options**

HEARING AIDS

R: 2425H05U0
L: 2425H05U1

ROGER RECEIVER

R: No Roger receiver installed
L: No Roger receiver installed

SERVICES

Reports...
Check warranty
Available apps
Phone compatibility
Hearing aid support
Accessory & charger support



What's new

- Patented antenna design¹
- Up to 6x higher transmission power*

Benefit

- New level of stability & efficiency
- Uninterrupted hands-free calls
- Streaming across up to 2x the distance*

Ⓡ BLUETOOTH NAME
R-Phonak hearing aid

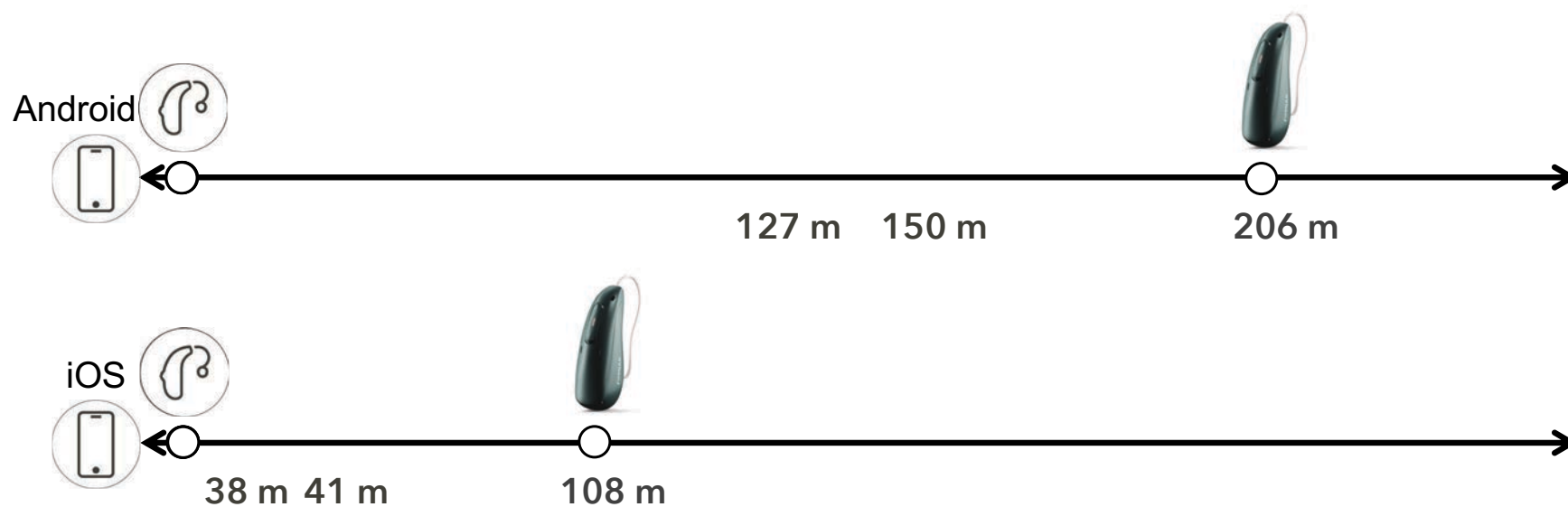
BLUETOOTH SIDE
Ⓡ Right

Ⓛ BLUETOOTH NAME
L-Phonak hearing aid

BLUETOOTH PHONE
☐ Fixed bandwidth
☒ Adaptive bandwidth
☐ Delete pairings

Manual controls **Bluetooth** Signals & alerts Startup

Connection stability - Streaming distance from phone and hearing aids (meters)



Distance until unidirectional connection dropped out when transmitting a phone call signal to the hearing aids

Please contact claims@sonova.com if you are interested in further information.

A true multitalent

Auracast
ready

New

Bluetooth Low Energy

Bluetooth
Classic 5.3

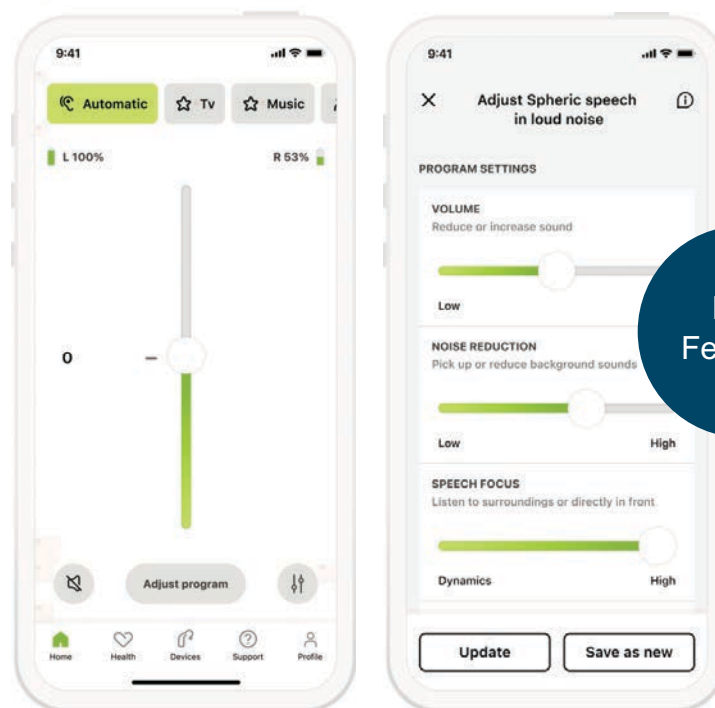
Roger™
Technology

AirStream™
Technology

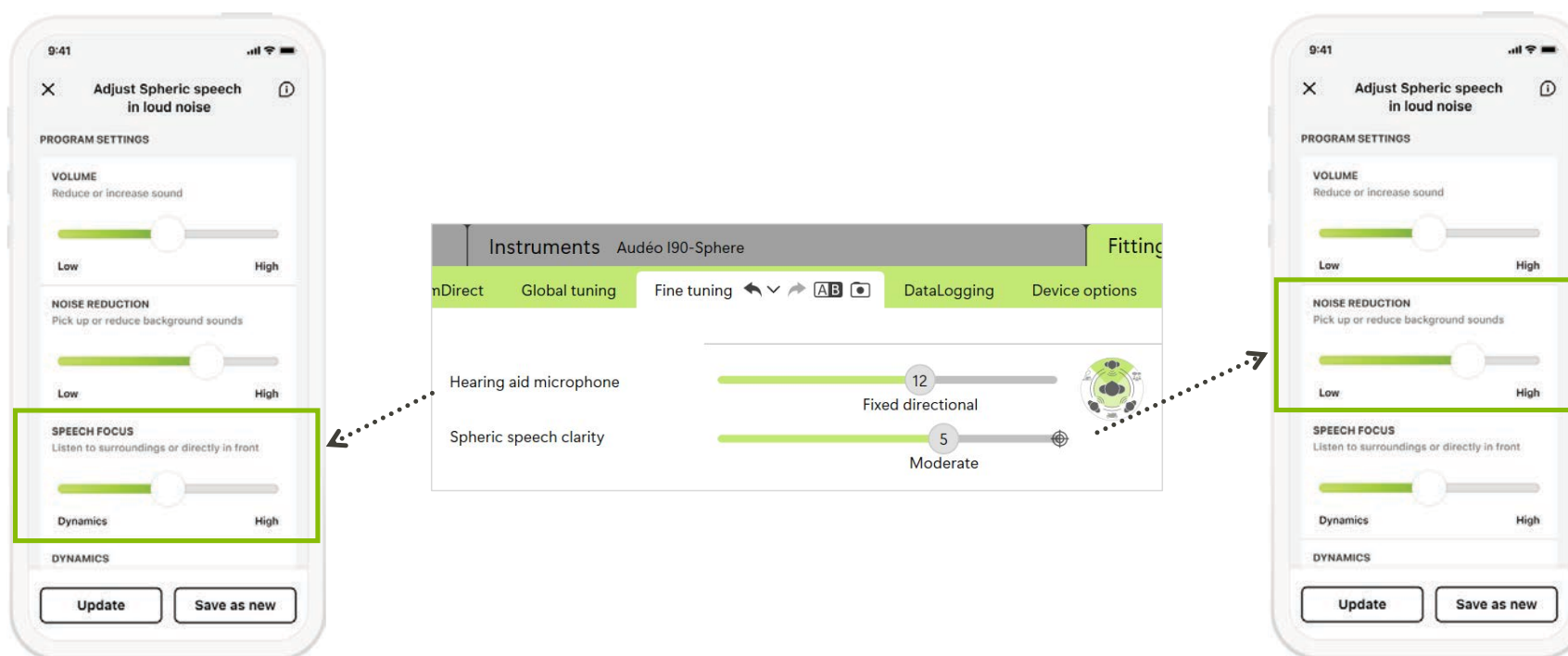
Binaural VoiceStream Technology



myPhonak updates – New compatibility



Spheric speech in loud noise in myPhonak

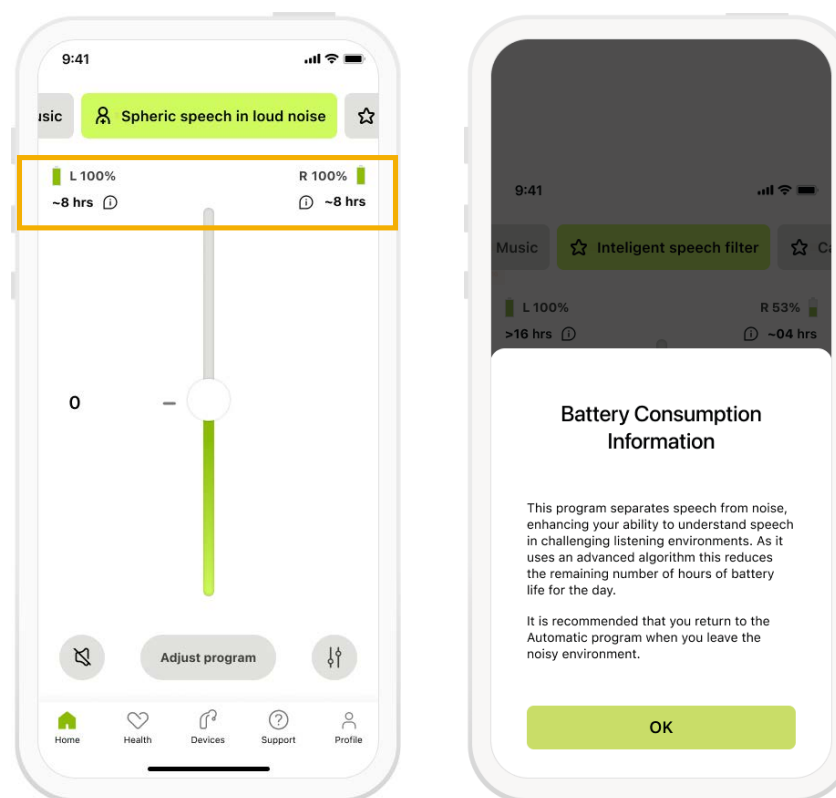


Keeping you informed about battery level

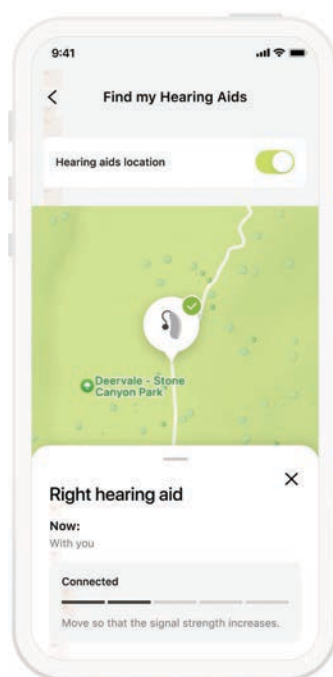
Additional information provided for **manual programs**:

- Remaining battery use
- Information icon when in Spheric speech in loud noise manual program

Notification sent when
<1 hr battery life remaining



New with myPhonak! Find my hearing aids



Compatible with Infinio rechargeable devices including CROS

Indicates the last connection point

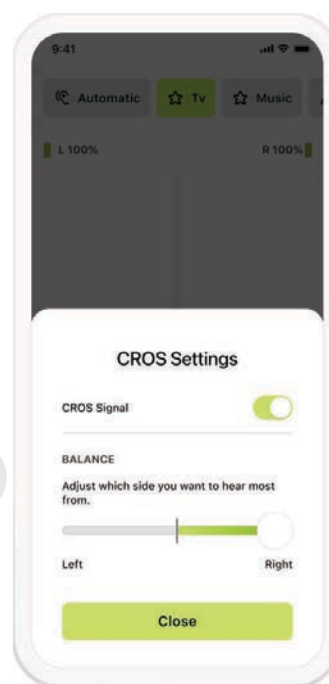
Gives guidance as you get closer



New with myPhonak! CROS mute & CROS Balance

CROS Balance

patient's left or
right side



CROS mute

NEW with myPhonak! Sky compatibility



Sky Lumity aids can use the
myPhonak app



Infinio

**Exceptional
sound quality
from the
first moment**



**Market
leading
connectivity
takes a giant
leap forward**



**Tested.
Reliable.
Proven. Swiss
engineering
at its best**



**Personalized
for you and
your patients**



**Clean and clear
speech far
beyond any
existing hearing
technology**





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Roger 3.

Roger receivers

Yesterday



Today



Tomorrow





Get ready for a game changer!

Before



Now



- Receiver not included in microphone
- iN microphones limited to two receivers

- ✓ Includes unlimited digital receivers¹
- ✓ Simpler and faster installation process
- ✓ No limitation of receivers
- ✓ No need for uninstallation
- ✓ No extra hardware

roger

1. For Hearing Aids with Roger Direct

What's new with Roger On 3?



¹ Available as a backwards compatible firmware upgrade.



Unlock more
meaningful
connections,
with Roger

Infinio

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Next level technology

- Exceptional sound quality from the first moment
- Connectivity you can count on
- Tested. Reliable. Proven.
- Personalized for you and your patients
- Clear speech from any direction with Spheric Speech Clarity



Flexible portfolio

- Audeo I-R
- CROS I-R
- Audeo I-Sphere
- Roger On 3
- Target 10.0
- myPhonak app

PHONAK
life is on



Hear it. Live it. Love it.

A solid green semi-circle is located to the left of the "References" heading.

References

Latzel, M, Heeren, J and Lesimple, C. (2024) "Speech Enhancer reduces listening effort and fatigue." Phonak Field Study News retrieved from www.phonak.com/evidence

Raufer, S., Kohlhauer, P., Jehle, F., Kühnel, V., Preuss, M., Hobi, S. (2024). "Spheric Speech Clarity proven to outperform three key competitors for clear speech in noise." Phonak Field Study News. <https://www.phonak.com/evidence>

Wright, A., et al (2024) "Spheric Speech Clarity applies DNN signal processing to significantly improve speech understanding from any direction and reduce the listening effort ." Phonak Field Study News retrieved from www.phonak.com/evidence