25 February 2019

Oticon Opn S

Oticon breaks a law of Physics

Carsten Ahlbom
Senior International Trainer

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Laws of physics

relating to hearing aids?

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Trapped
in a world of
compromise

until now...

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Oticon Opn S with OpenSound Optimizer™

A new level of fitting freedom

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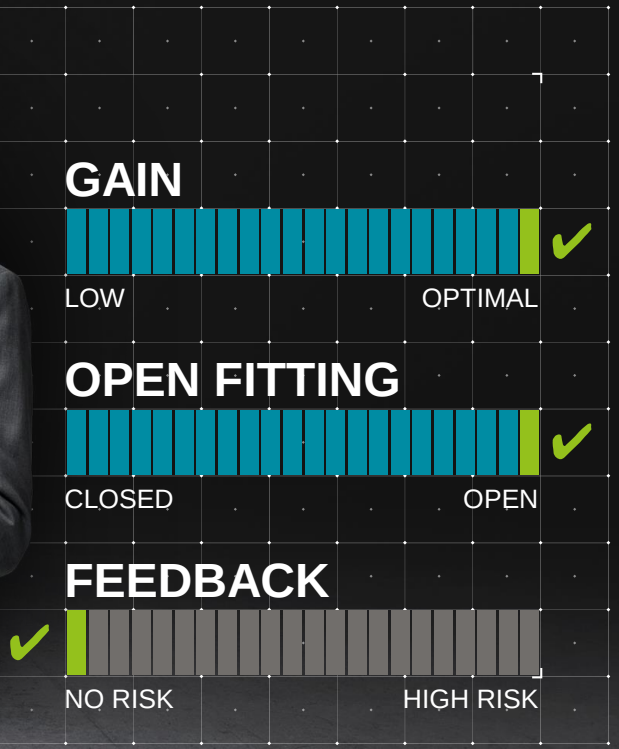
OpenSound Optimizer breaks a law of physics

Breakthrough Innovation

Detects and prevents feedback before it occurs



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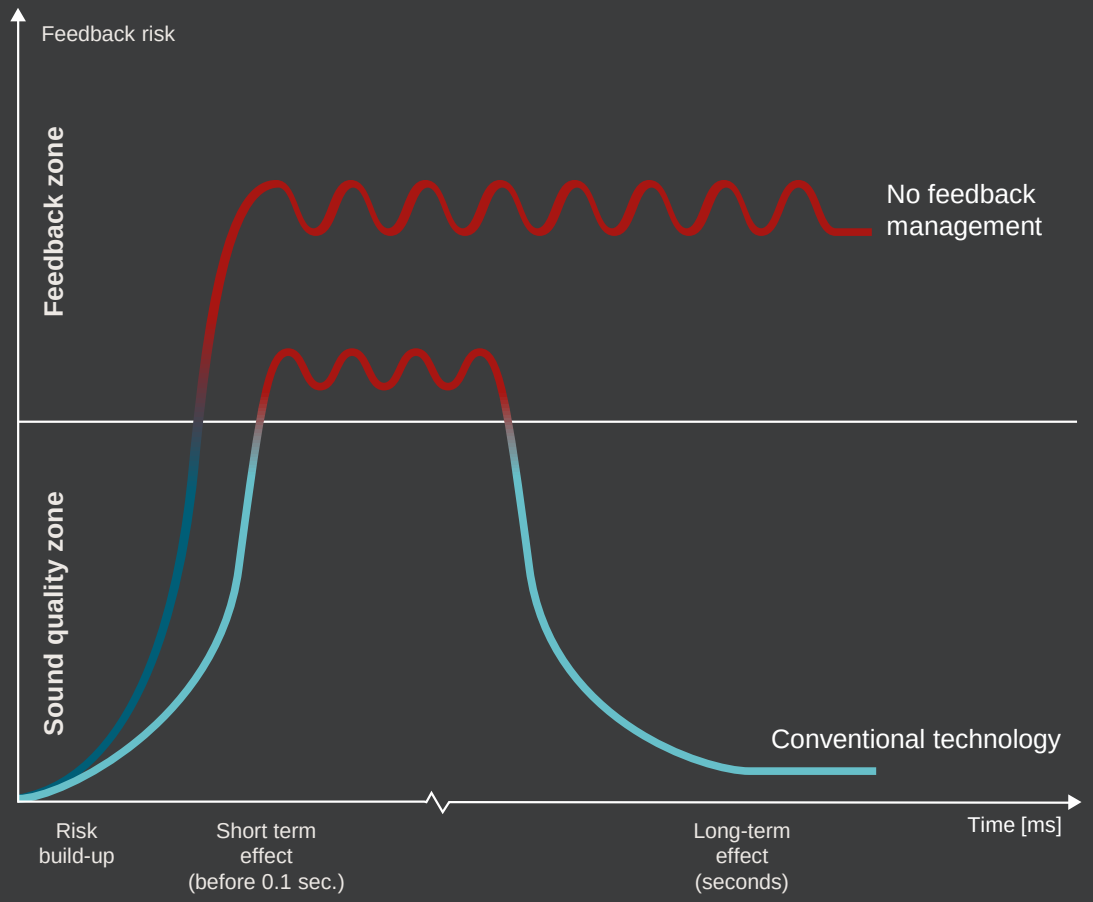
The proactive system provides optimal and stable gain

Open fitting without feedback risk

OLD WORLD



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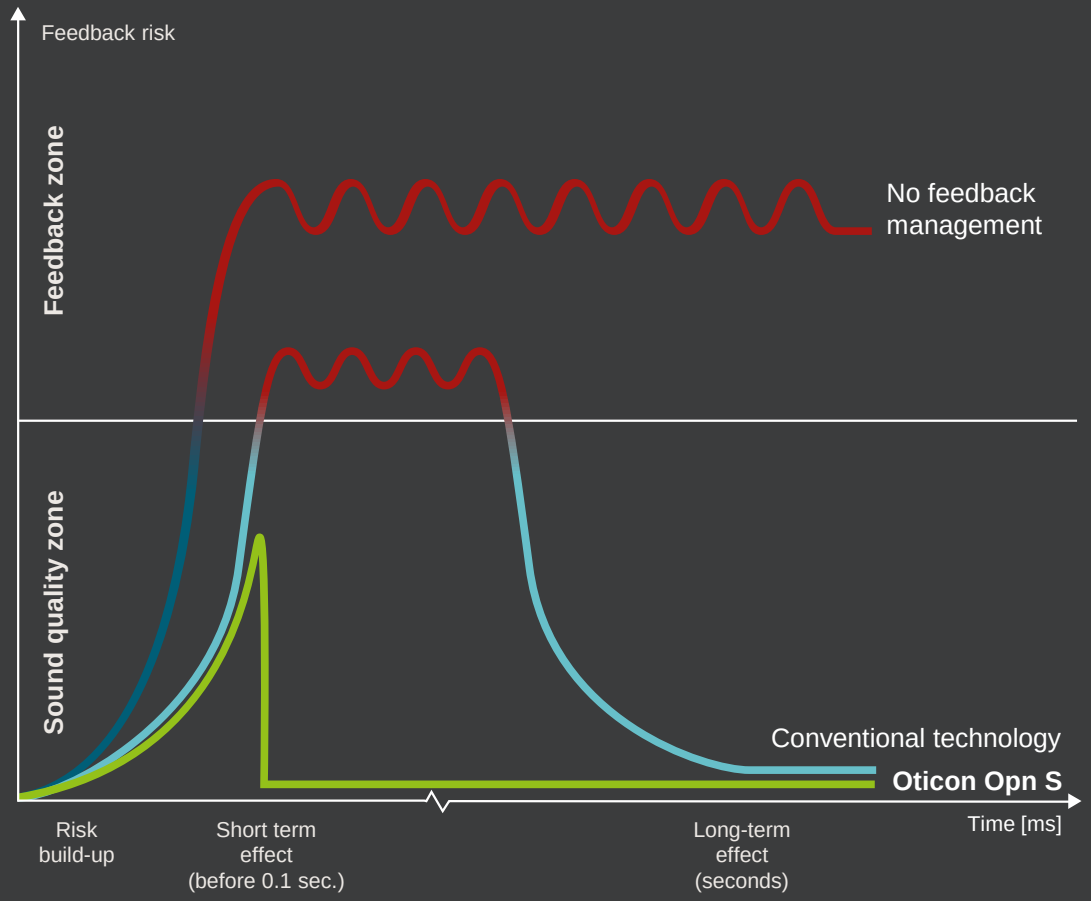
The proactive system provides optimal and stable gain

Open fitting without feedback risk

NEW WORLD



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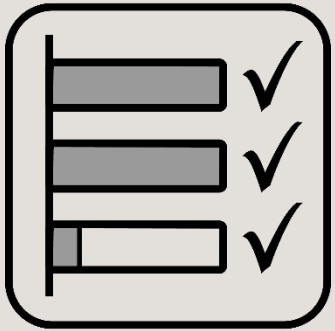
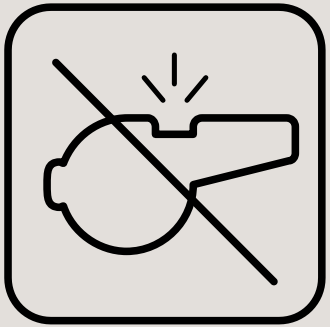
OpenSound Optimizer

A combined system for optimal gain and sound quality – free of feedback

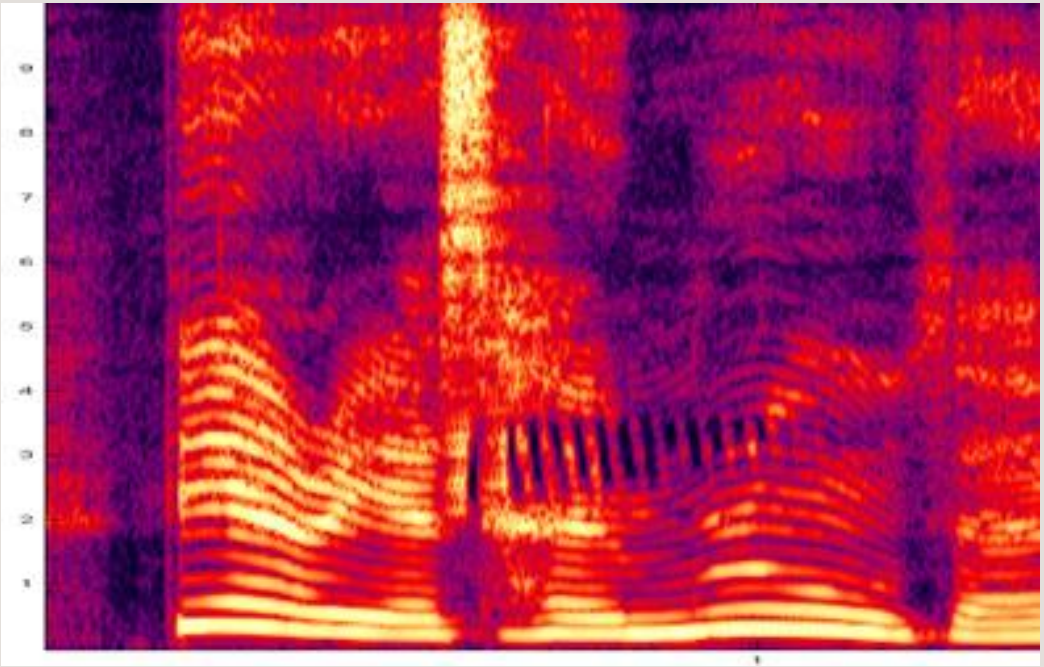




Spectro Temporal Modulation

In details

Only
60 ms
to detect and prevent feedback



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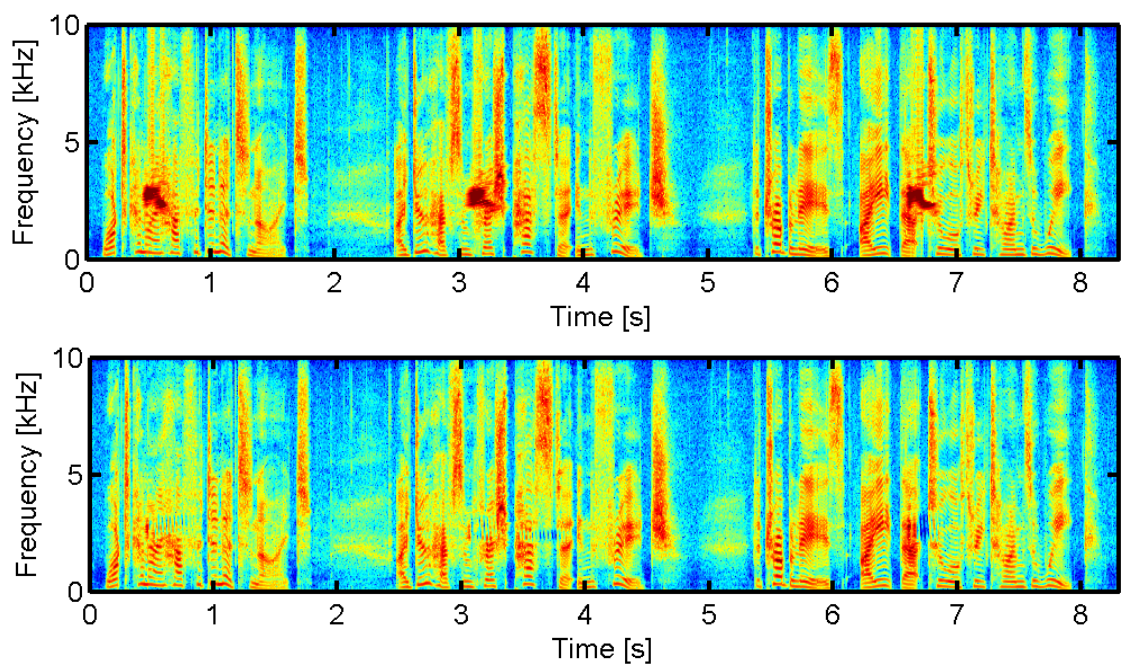
OpenSound Optimizer

Live



Without OpenSound Optimizer

With OpenSound Optimizer

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Introducing Velox S™

New innovation requires a new level of processing power

Oticon BrainHearing™ Technology

Powered by Velox S™

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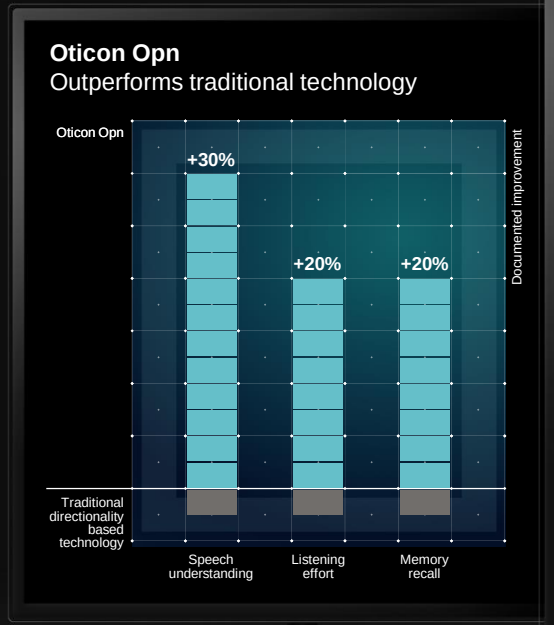
Oticon Opn S takes the BrainHearing™ benefits even further



Le Goff et al. 2016, Oticon Whitepaper

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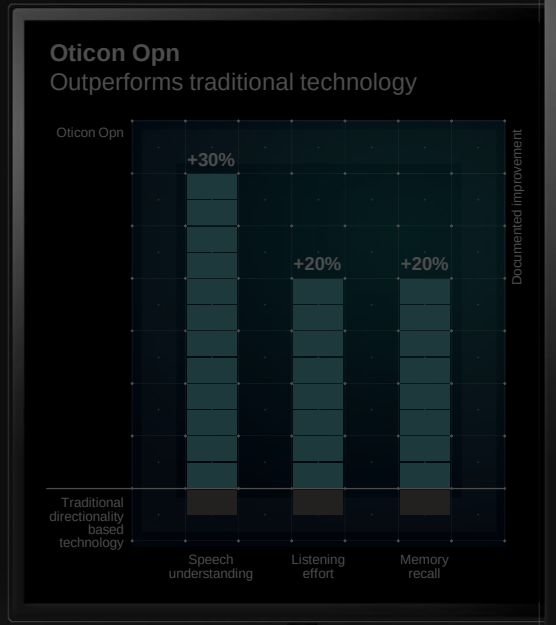
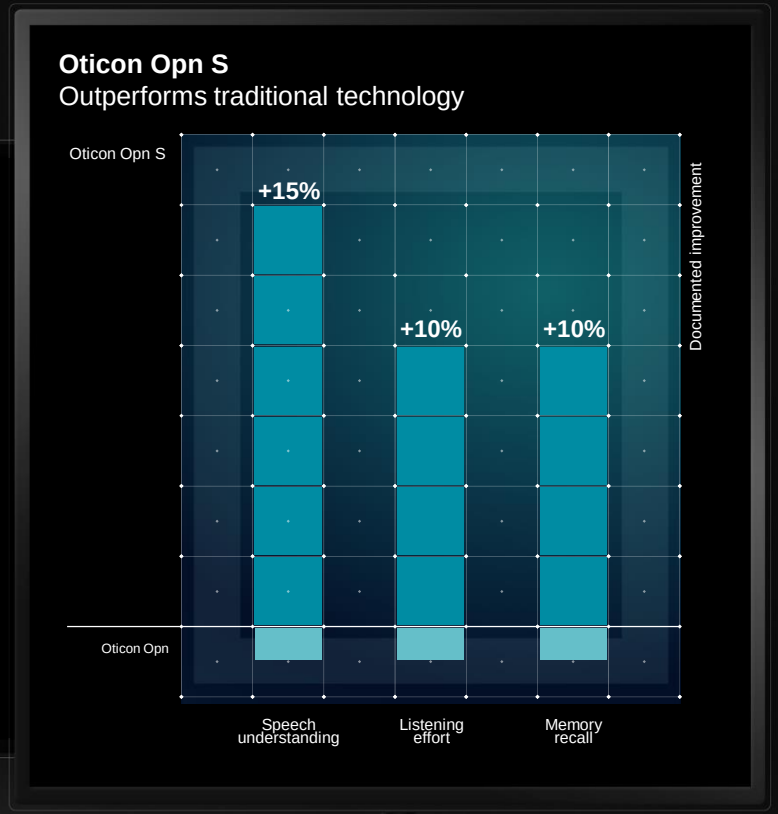
Oticon Opn S takes the BrainHearing™ benefits even further





Juul Jensen 2019, Oticon Whitepaper

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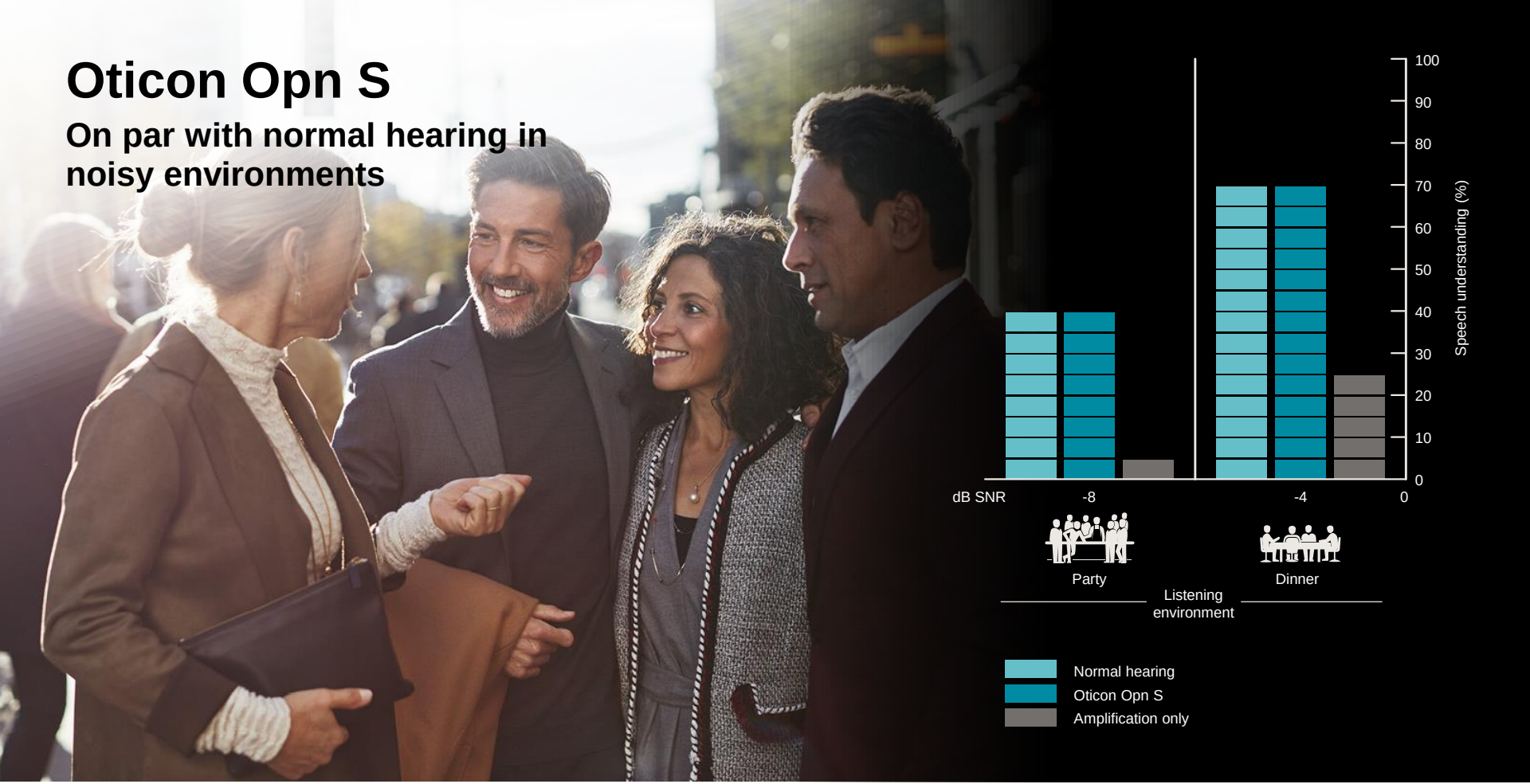
On par with normal hearing in noisy environments



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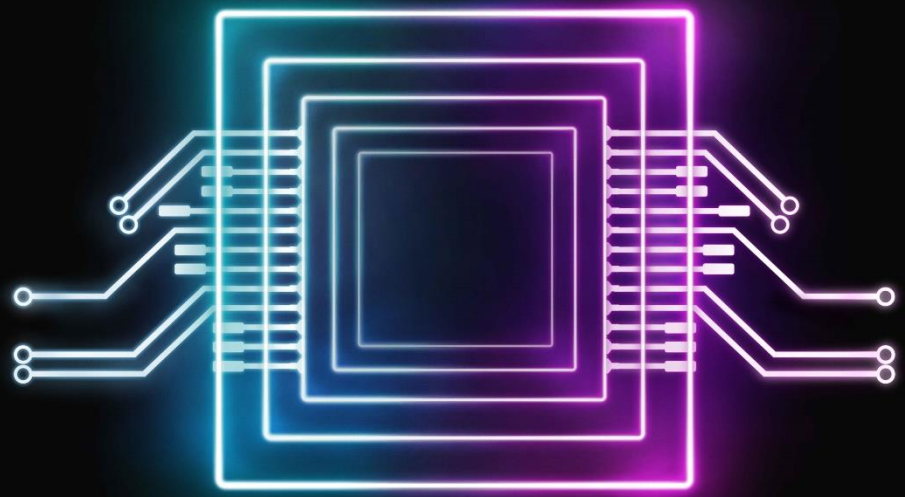
Velox S

The details

- **More memory –** more performance
- New highly **sensitive sensors**
- **56.000 acoustic** measurements per seconds
- **30 times faster**
- Feedback management **in 24 channels**
- Updated OpenSound Navigator™
- Designed for optimized rechargeable battery performance



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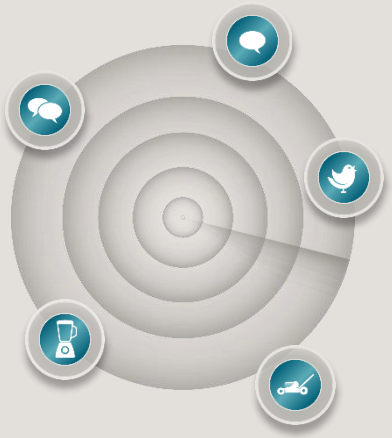
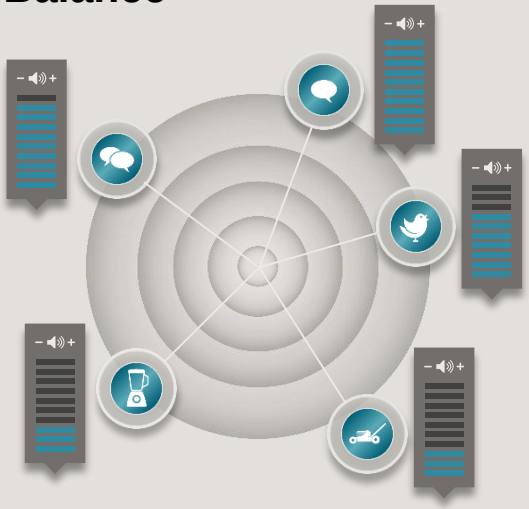
OpenSound Navigator

Keeping all speech sounds clear and precisely attenuating noise

Analyse



Balance



Noise removal

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OpenSound Navigator

Updated for more empowerment

Very High setting in Genie 2

OpenSound Booster

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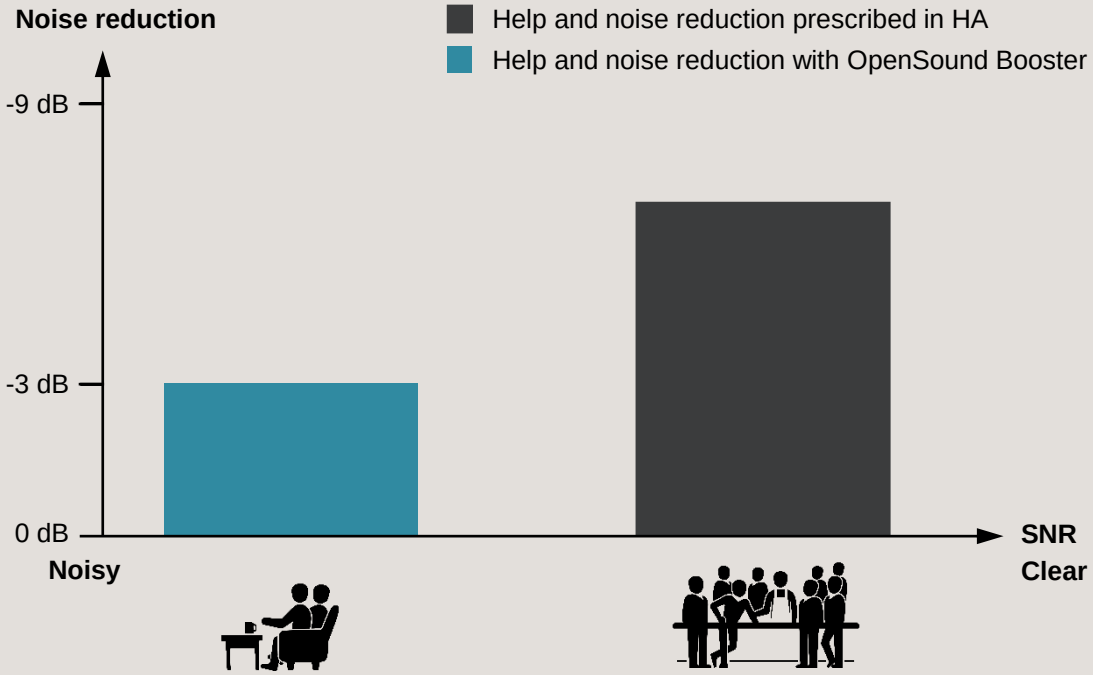
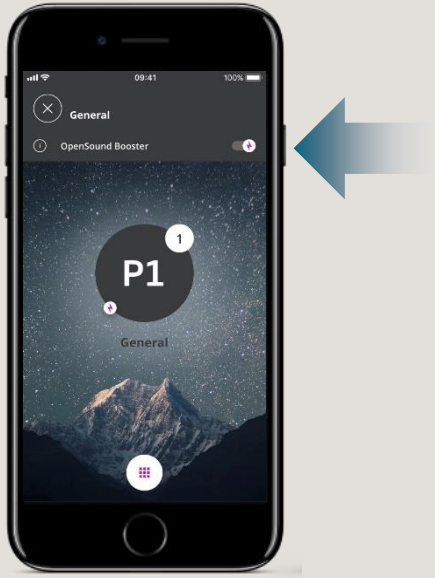
OpenSound Booster

An example





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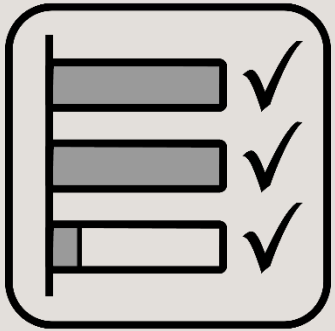
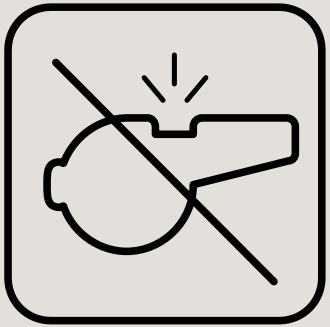
Open Sound
Optimizer

OpenSound Optimizer

A combined system for optimal gain and sound quality – free of feedback





Feedback shield LX

Three technologies working together

Frequency shift

Phase inversion

Gain control

- On each microphone
- 10 Hz frequency shift above 940 Hz
  - always on

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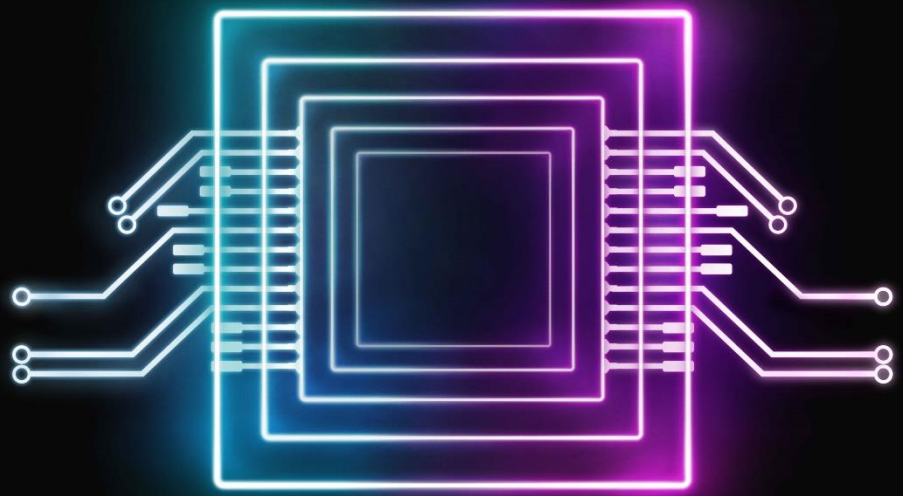
OpenSound Navigator

YouMatic LX

Open Sound Optimizer

Spatial Sound LX

Speech Guard LX



Speech Rescue LX

Soft Speech Booster LX

Clear Dynamics

Wind Noise Management

Tinnitus SoundSupport

The full Oticon Opn S connectivity package

Superior Oticon connectivity with next level open sound

Oticon ON App

Made for iPhone ®

Made for
iPhone | iPad | iPod

ConnectClip

Various accessories

IFTTT

eHealth options

Powered by Velox S and 2.4 GHz Bluetooth low energy technology

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BrainHearing support levels

Product	BrainHearing support	Open access to All speakers	Rapid noise reduction	Localisation of sounds	Speech clarity	A personalised listening experience
Oticon Opn S 1	Level 1	Yes	●●●	●●●	●●●	●●●
Oticon Opn S 2	Level 2	Yes	●●	●●	●●	●●
Oticon Opn S 3	Level 3	Yes	●	●	●	●
	Supporting features:	• OpenSound Navigator • Spatial Sound LX	• OpenSound Navigator • Frequency bands	• Speech Guard™ LX • Spatial Sound LX • Clear Dynamics • Bandwidth	• OpenSound Navigator • Speech Guard LX • Clear Dynamics • Bandwidth • Frequency bands	• Fitting bands • YouMatic™ LX • Soft Speech Booster LX

The Oticon Opn S family

The options

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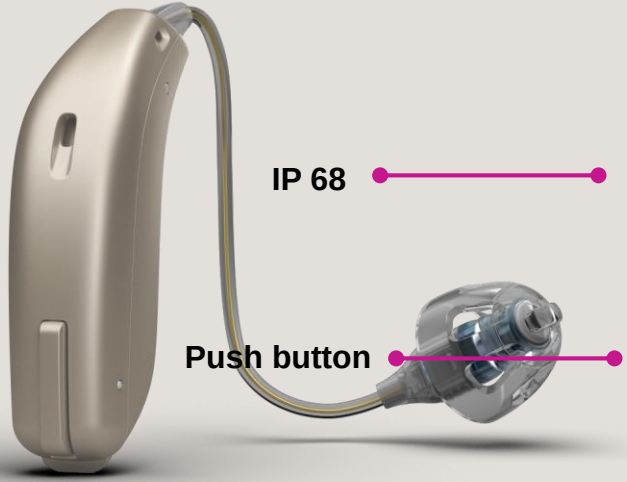
Oticon Opn S miniRITE

Oticon Opn S miniRITE

Stylish, discreet, and easy to operate



IP 68

Push button

miniFit receiver

miniFit earpieces

Battery 312

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Oticon Opn S miniRITE T

Oticon Opn S miniRITE T

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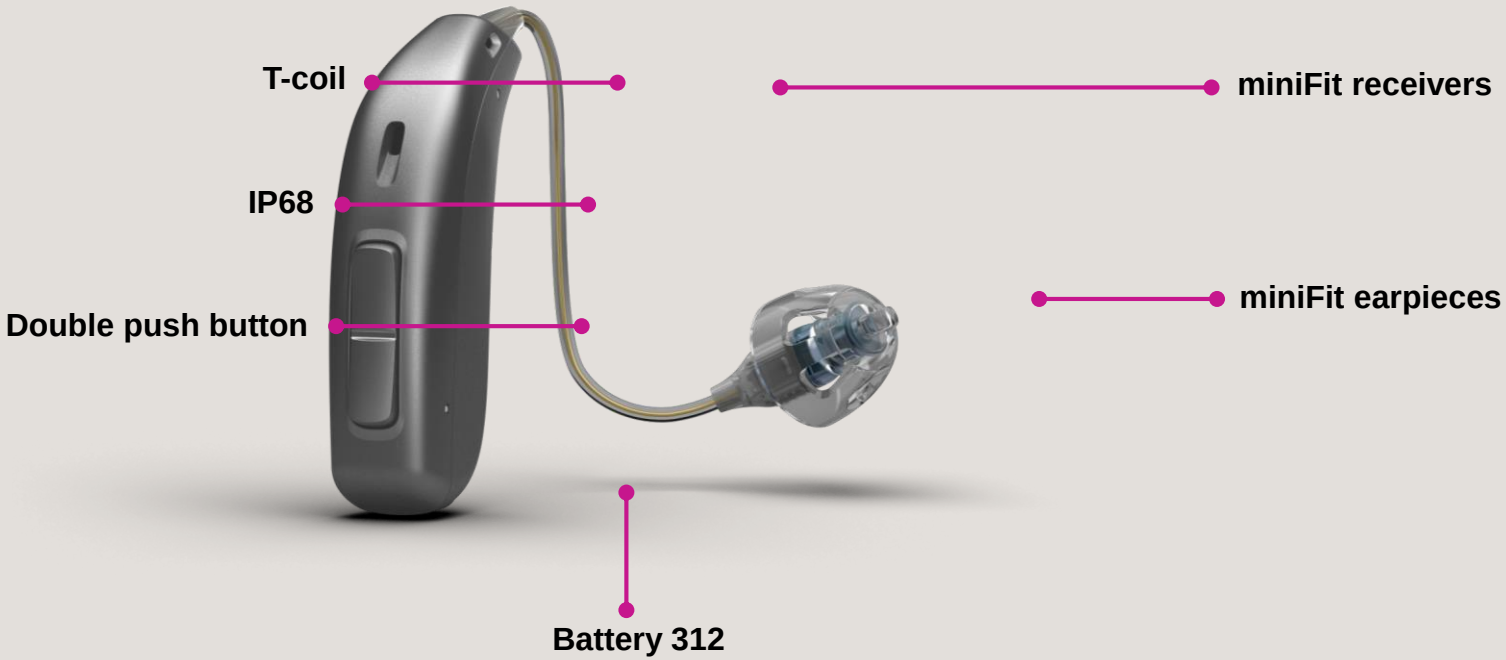
miniRITE T

Sleek and discreet



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Oticon Opn S miniRITE R

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Oticon Opn S miniRITE R

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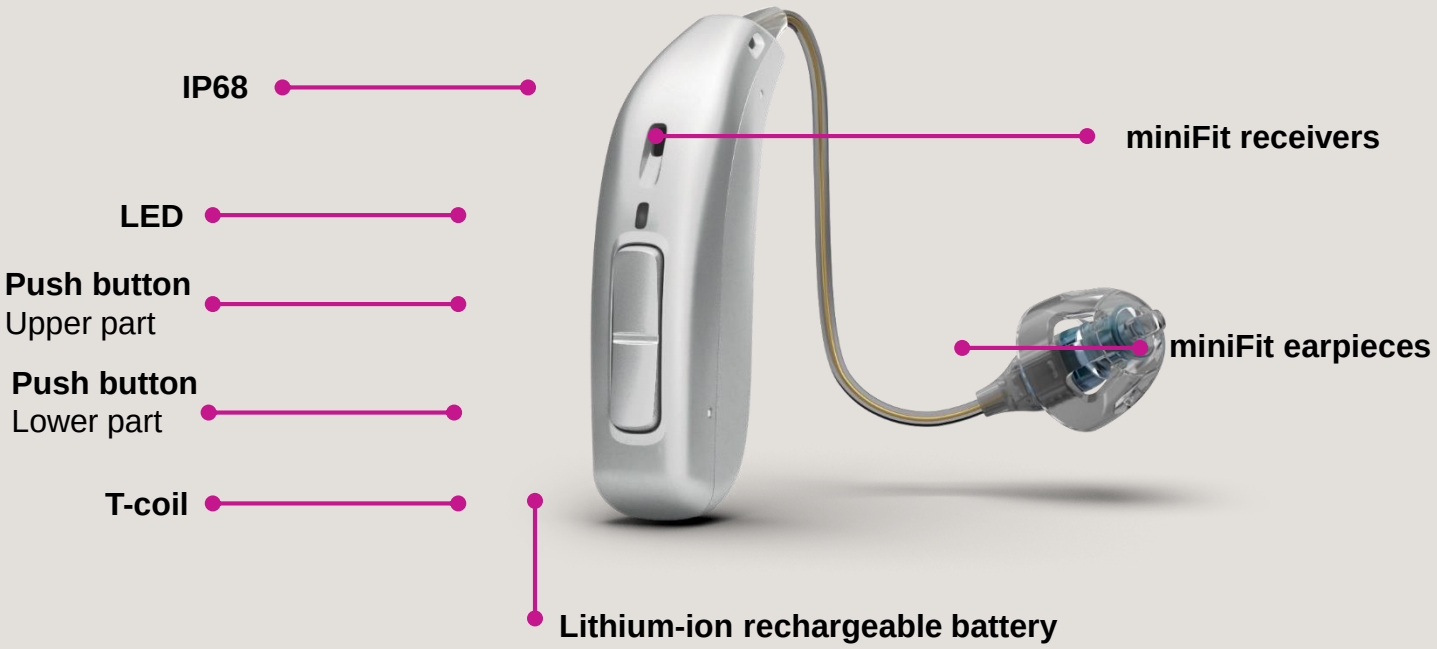
miniRITE R

Lithium-ion based rechargeable solution



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Easy handling of Oticon Opn S miniRITE R

Leave in
the charger overnight

Automatically turns on
when taken out of the charger

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Super fast charging time

Charging time for a completely drained battery

3 hours	1 hour	0.5 hour
Fully charged	50% charged	25% charged

Lithium-ion technology is sensitive to temperature

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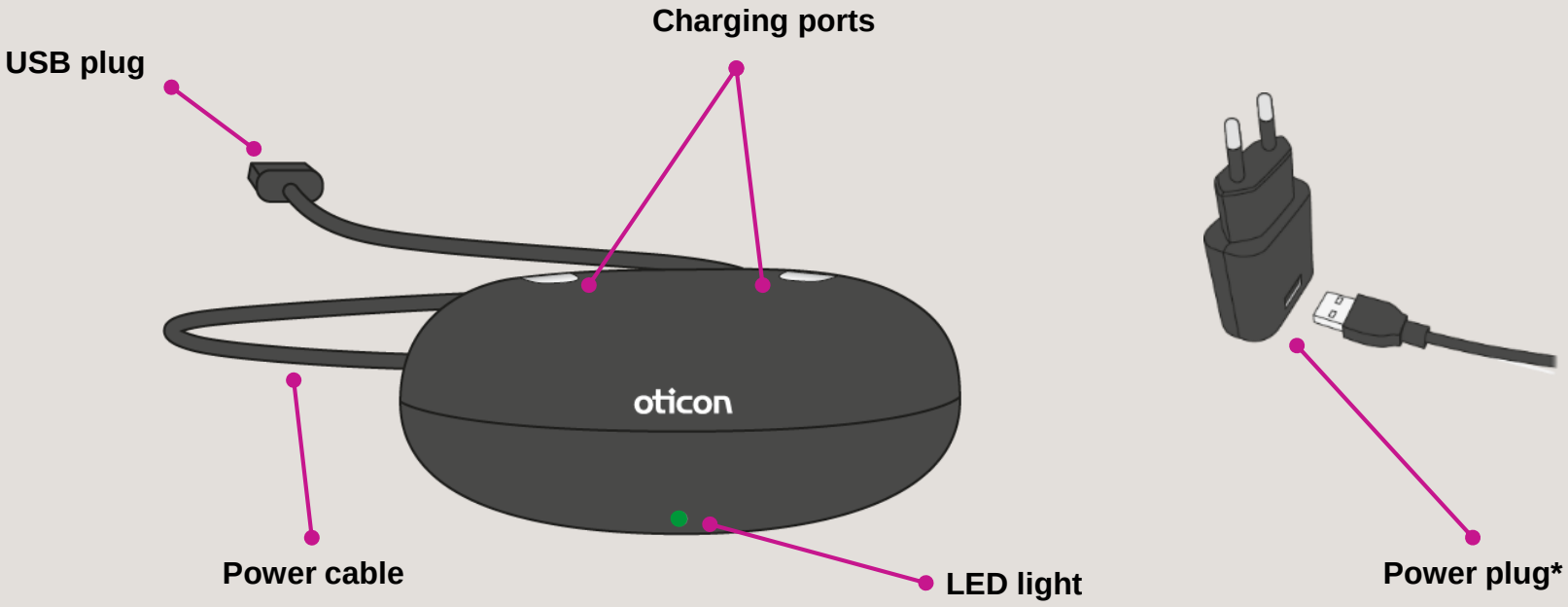
Charger functionality

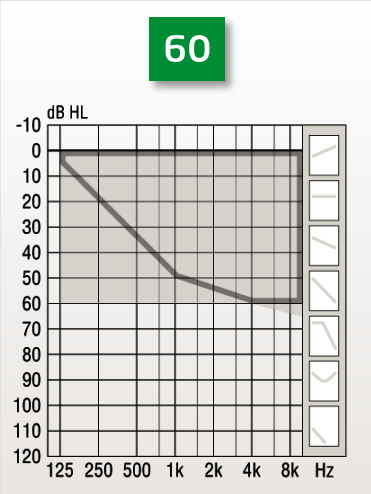
The overview

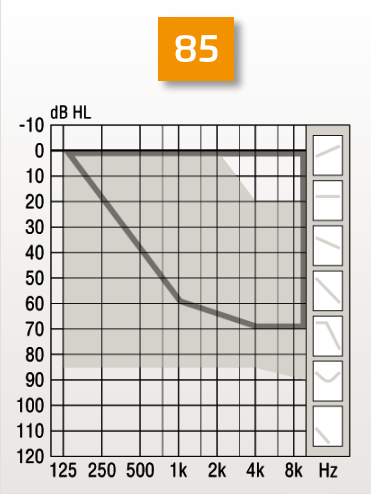


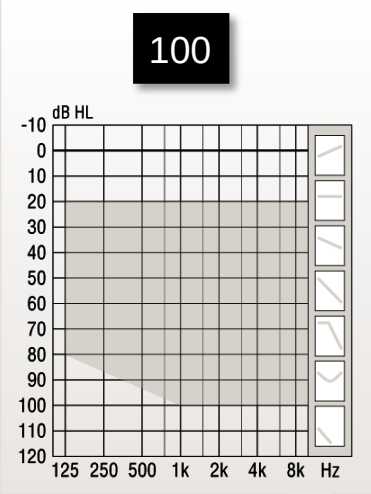
**Power plug will vary from country to country*

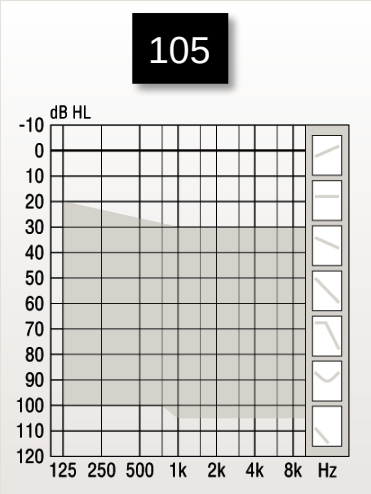
miniRITE, miniRITE T, and miniRITE R fitting range

Now also for severe-to-profound losses with miniFit receivers









Mould, Bass & Power dome Open dome

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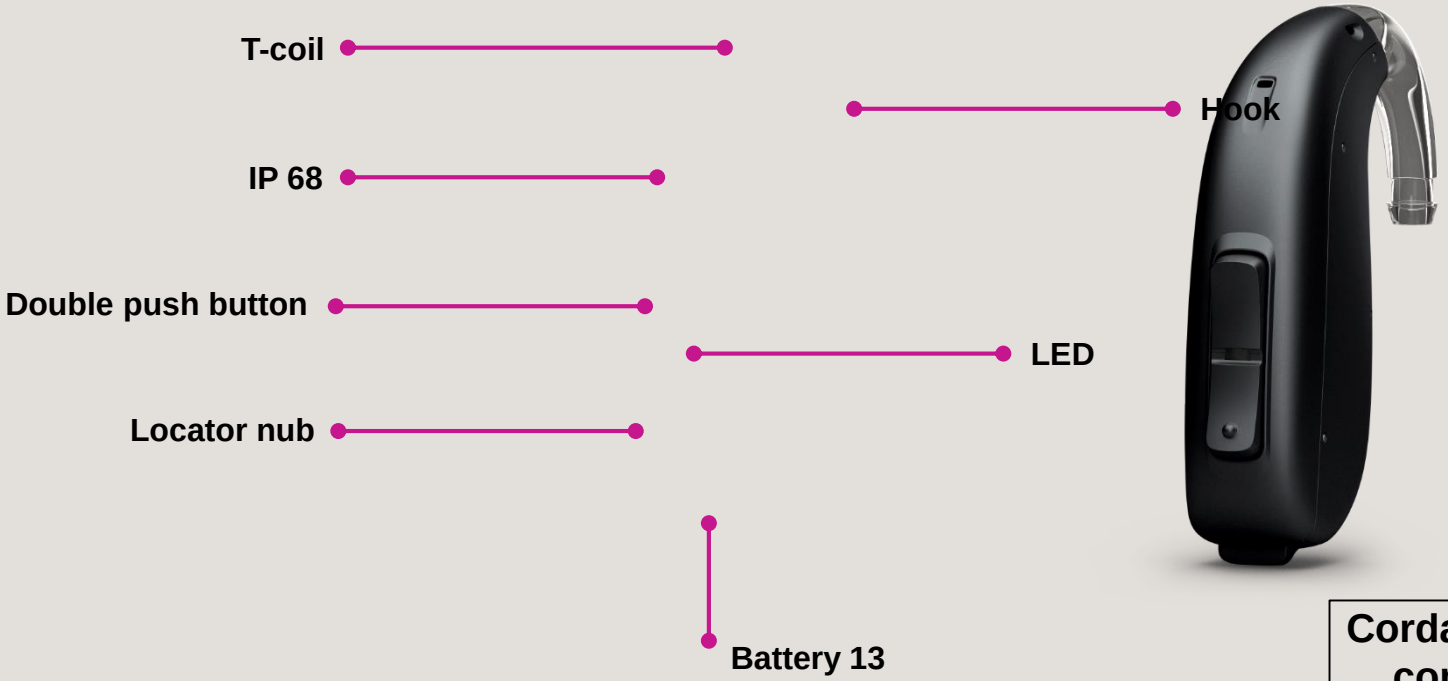
Oticon Opn S BTE PP

Oticon Opn S BTE PP

BTE13 PP

A powerful offering for the power user



Corda miniFit compatible

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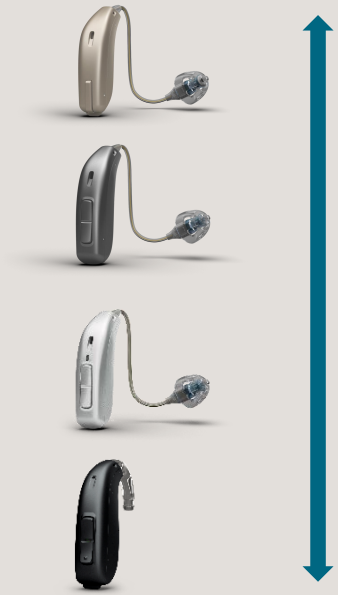
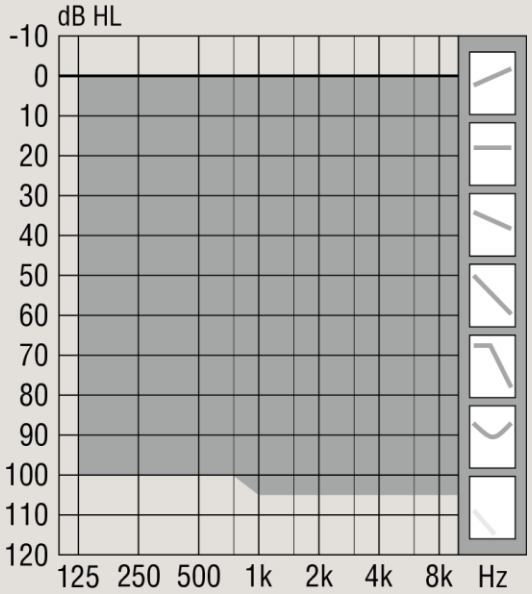
Oticon Opn S fitting range

All the way up to severe-to-profound losses



0 – 105 dB HL



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Colours

Find the client’s favourite look

CO90	CO94	CO93	CO63	CO92	CO91	CO44
Chroma Beige	Terracotta	Chestnut Brown	Diamond Black	Steel Grey	Silver Grey	Silver

OpenSound Navigator

Help setting in Genie 2 – Very High

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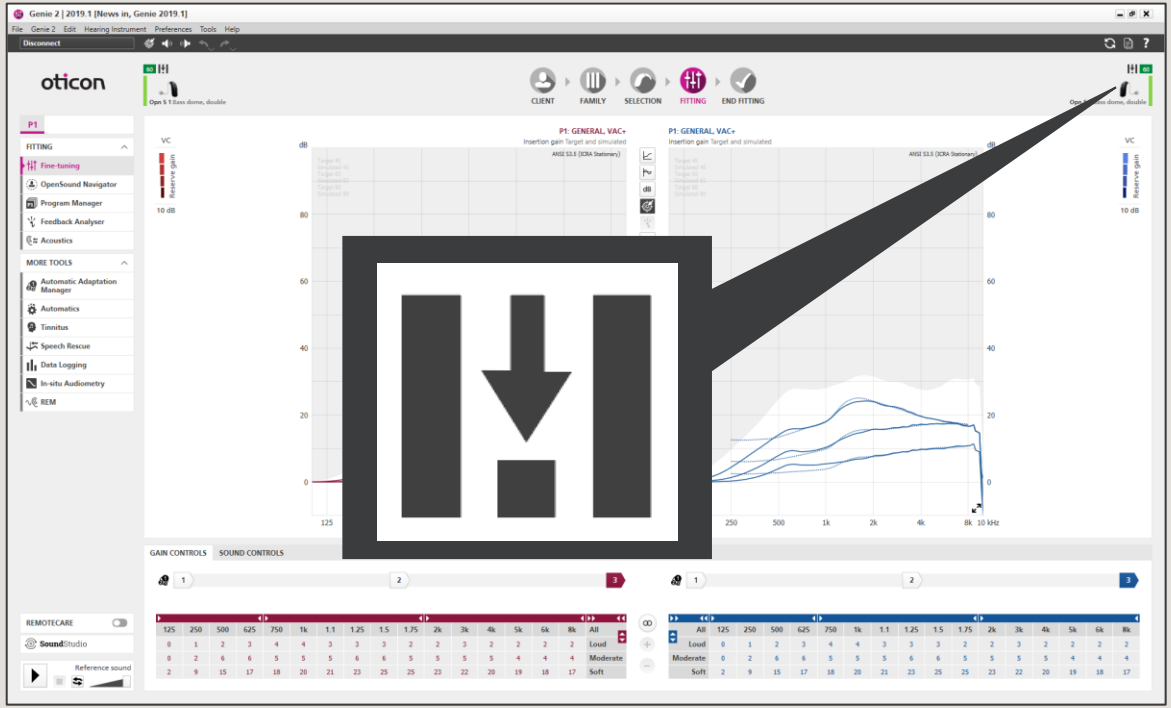
OpenSound Optimizer

Unstable Gain Indicator



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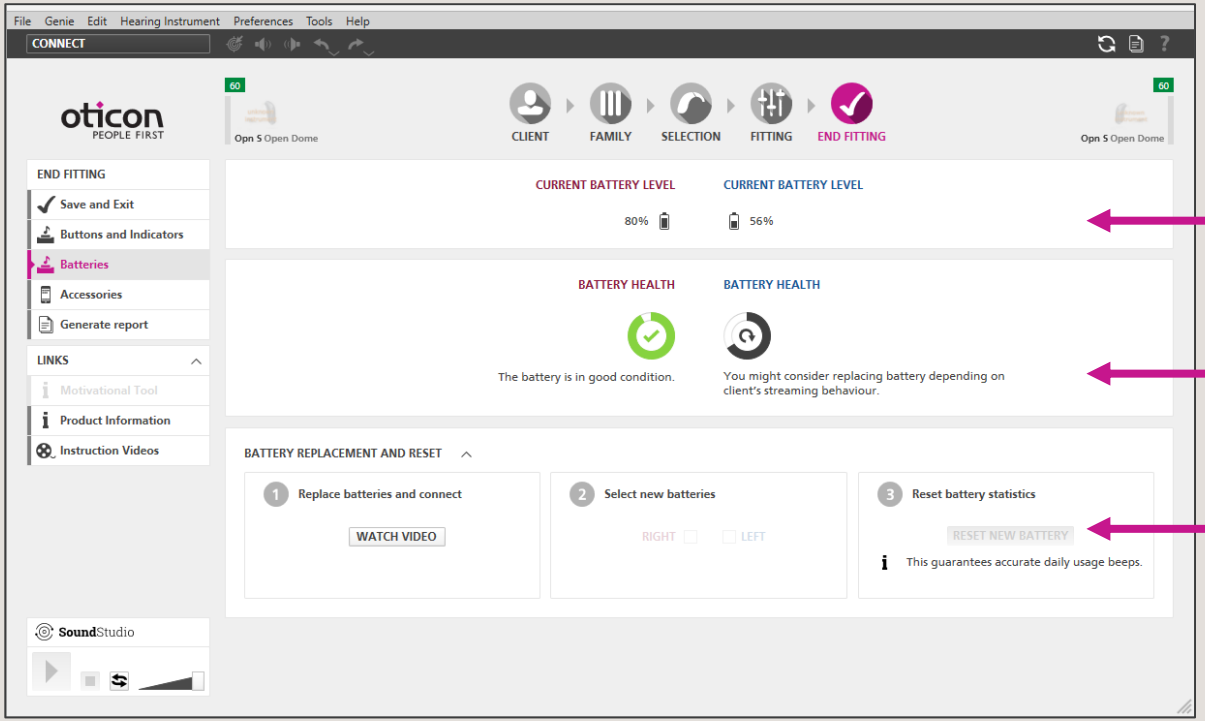
miniRITE R in Genie 2

End Fitting/Batteries



Current battery level

Battery health

Battery replacement

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Summary

- OpenSound Optimizer is a breakthrough in sound quality and speech understanding
- Boosting OpenSound Navigator
- New Velox S platform
- Next-level BrainHearing benefits.
- State-of-the-art rechargeable lithium-ion miniRITE R.

Oticon Opn™

The open sound paradigm

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