26 February 2019

Oticon redefines child-friendly hearing care

Oticon Opn Play™

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Senior International Trainer

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Oticon redefines child-friendly hearing care

“

My daughter age 6 was complaining of headaches at school and having to take breaks from the classroom… **As soon as she went to school with the Opn, she no longer asked for breaks from the classroom** and said the noise is a lot more manageable.” Kate, mother of Emma, age 6

“

Opn changed my life a lot. Hanging out with my friends and not knowing what they’re talking about, that was always the worst. With Opn hearing aids I don’t have that problem.” Carlo, age 18, Oticon Opn user

Testimonials represent the opinion of the concerned individuals only and may not be the experience of others. Testimonials are not paid and may not be indicative of future performance or success of any other individuals.

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Powered by the revolutionary Velox S platform

***50 times faster** data processing than ever before	Outstanding resolution with **64 frequency channels**	Full environment analysis **more than 100 times per second**	Velox S™
****Increased memory** enabling ground-breaking Improvements	**New detectors monitor the acoustic environment with **additional 56.000 measurements per second**	****New signal processing algorithms** for proactive feedback management	**New design for **optimised rechargeable battery performance**

*Compared to Inium Sense **Compared to Velox

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Children live and learn in a beautifully chaotic world

“

*On average, children spent **80% of their total time in a mixture of speech in noise***
… and seldom were in situations classified as quiet, speech alone, or noise alone”

Crukley et al., 2011

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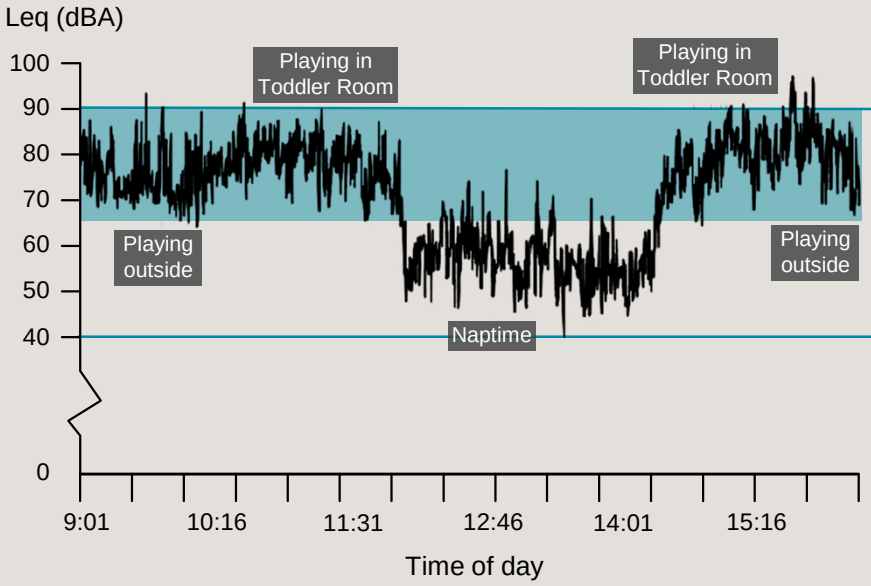
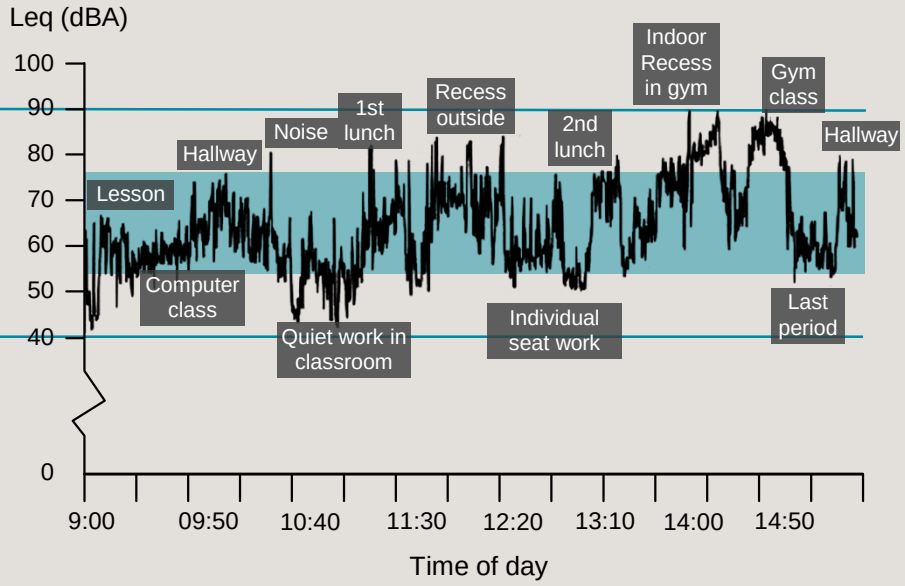
Children’s listening environments

Applies for all children

Sustained and high sound levels in day-care



Frequent variation in sound levels in school



Crukley et al. 2011

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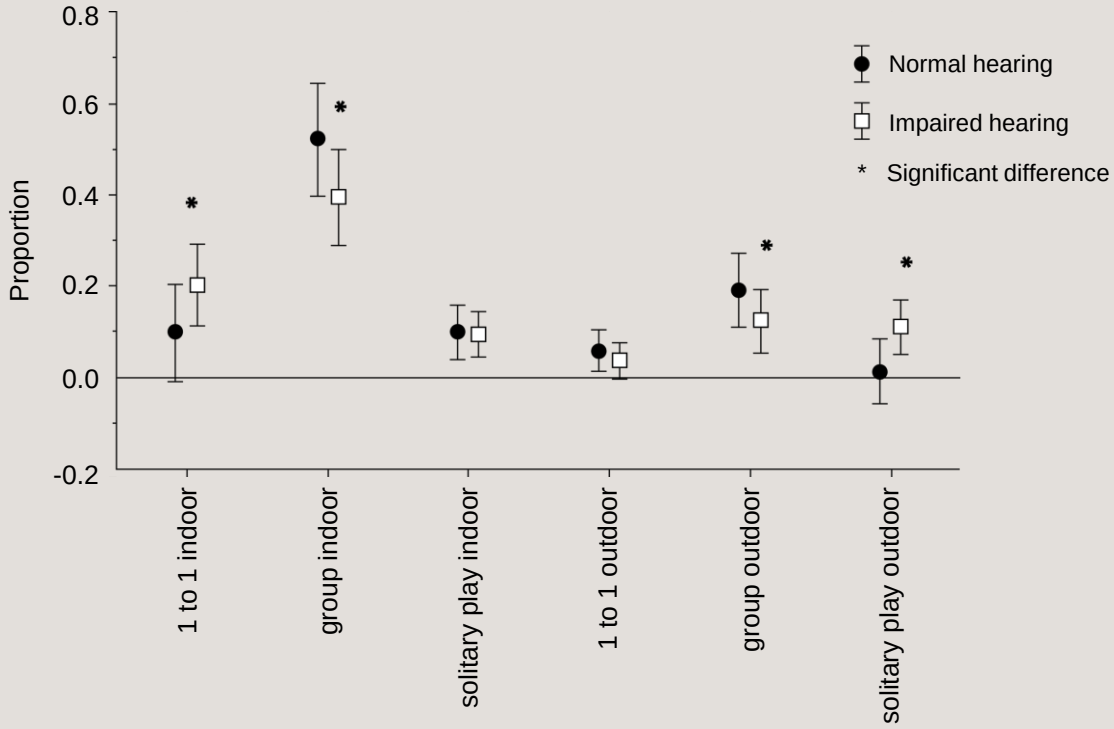
Hearing loss influences behavior of young children

Daily activities of children 1 – 6.5 years old as reported by parents or caregivers



There is a gap to be closed in complex listening environments

Ching et al., 2009

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Pros and cons of traditional systems

Traditional directionality

- ✓ Better speech understanding in noise
- ✗ Audibility of talkers outside the directionality beam
- ✗ Overhearing and incidental learning
- ✗ Environmental awareness

Omni-directional technology

- ✓ Access to all sounds
- ✗ Favourable listening in noisy environments

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Omni directional technology overloads young minds

in noisy environments

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Traditional directional technology closes down sounds…

…and restricts opportunities to learn

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Oticon Opn Play™ **a breakthrough in paediatric** hearing care

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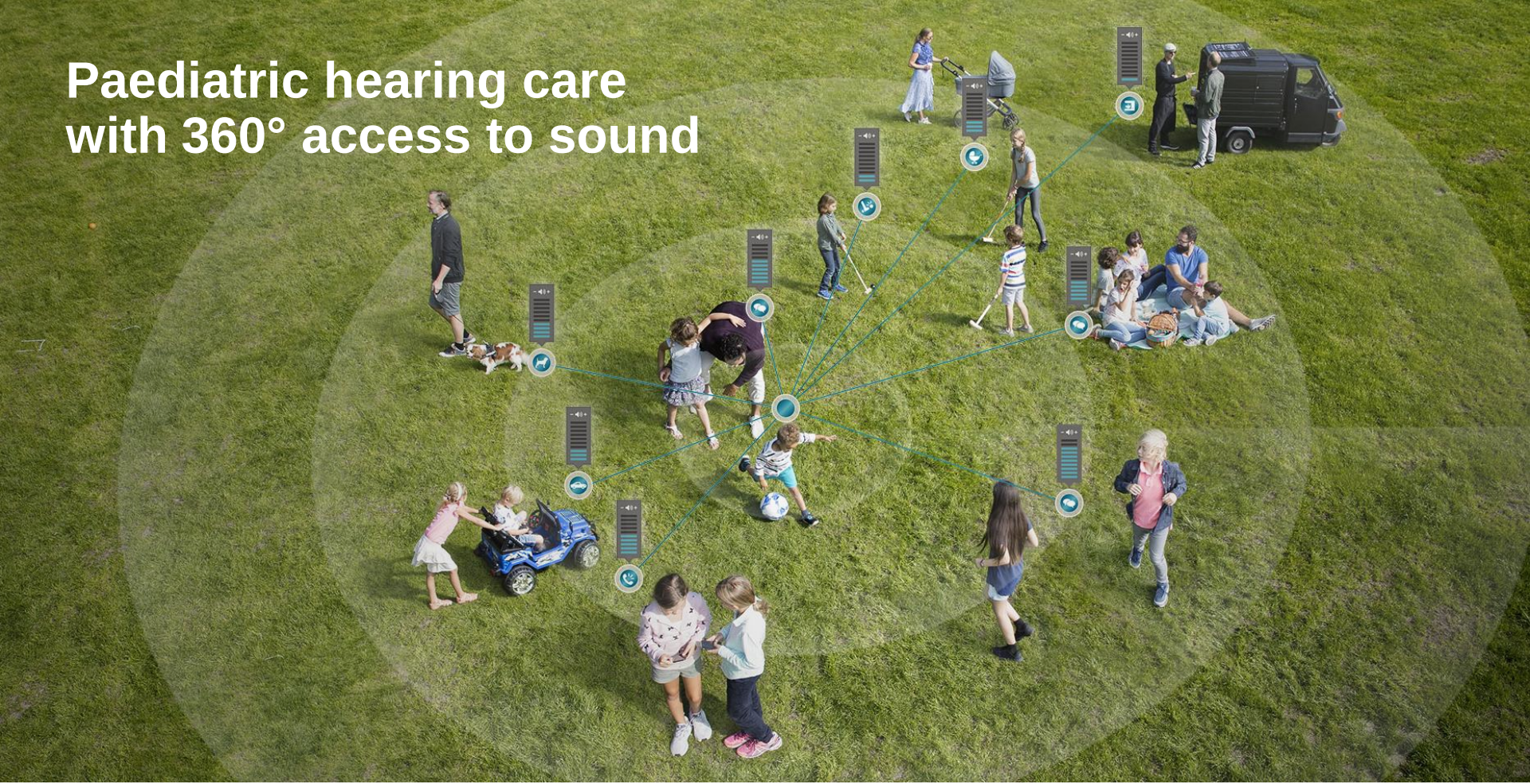
Paediatric hearing care with 360° access to sound



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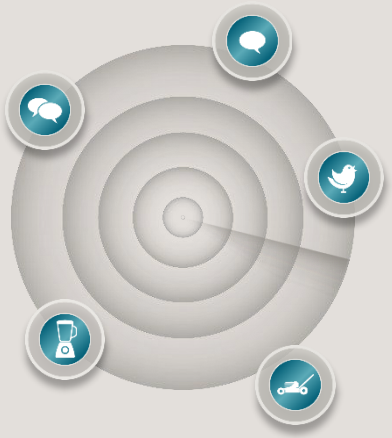
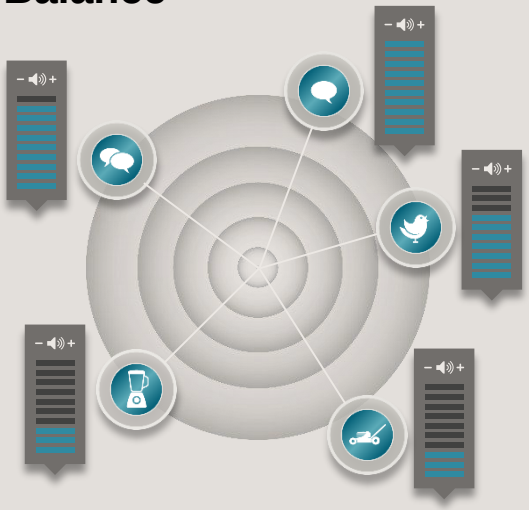
OpenSound Navigator

Fast and seamless

Analyse



Balance



Noise removal

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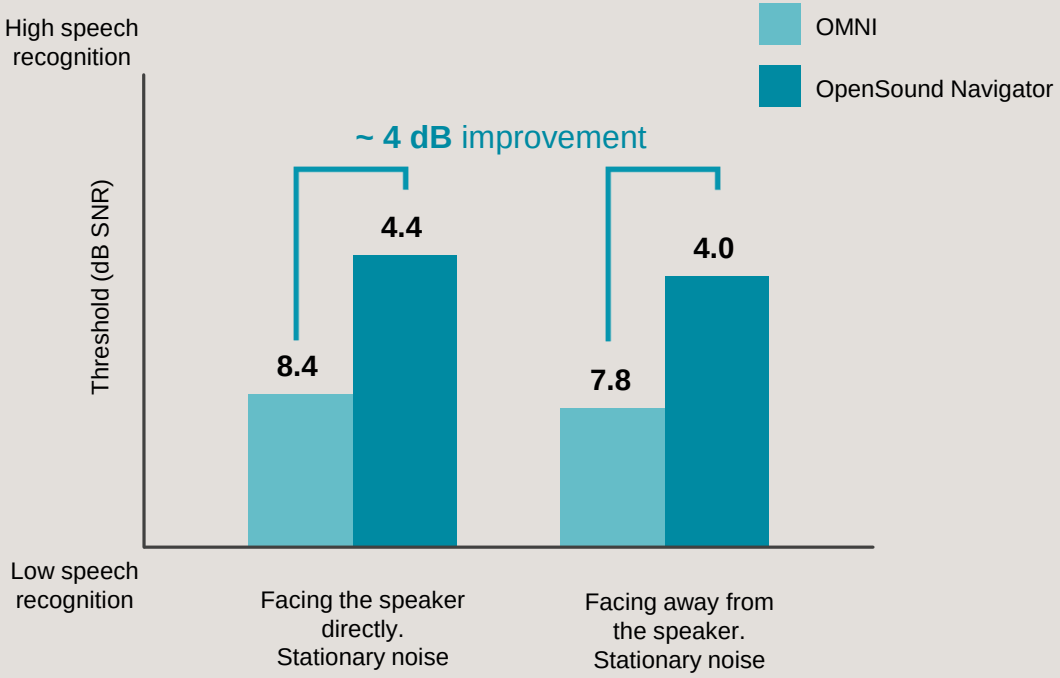
OpenSound Navigator is proven to provide up to 30% improved speech understanding …

Study 1



Boys Town National Research Hospital

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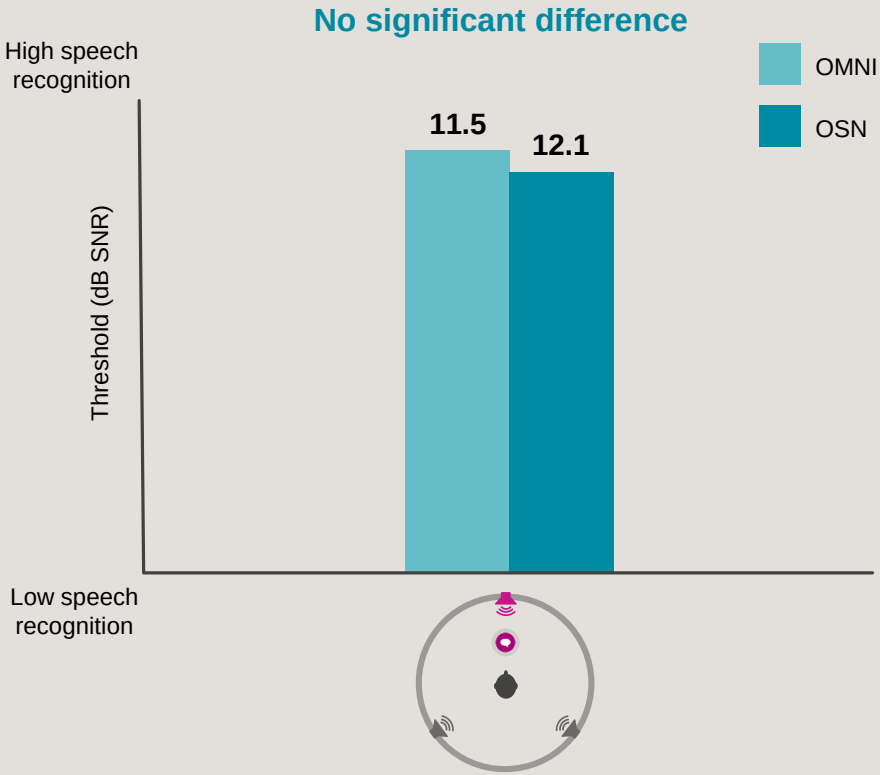
… and allows better opportunities for incidental learning

OpenSound Navigator allows access to multiple talkers

Study 1



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OpenSound Navigator offers optimal conditions to listen and learn

Study 1

OpenSound Navigator offers significant benefits compared to traditional technology regarding

- Speech understanding (with or without facing the speaker directly)
- Preserving competing speech, hence allowing children to overhear.

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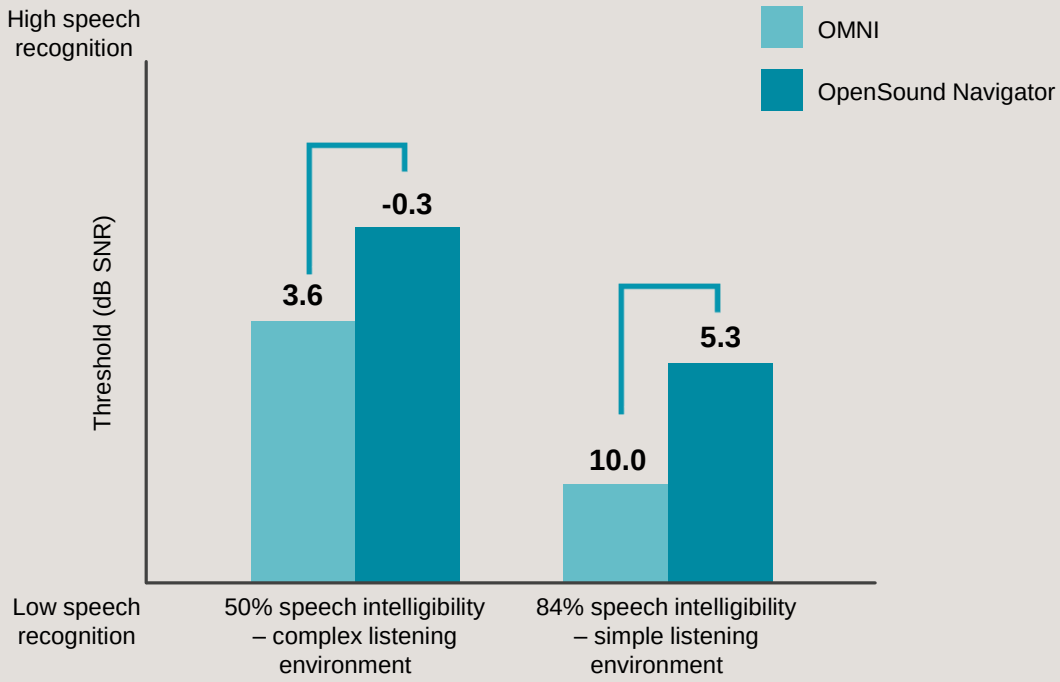
Up to 5 dB SNR improved speech understanding in noise

Study 2



VU University Medical Center in Amsterdam

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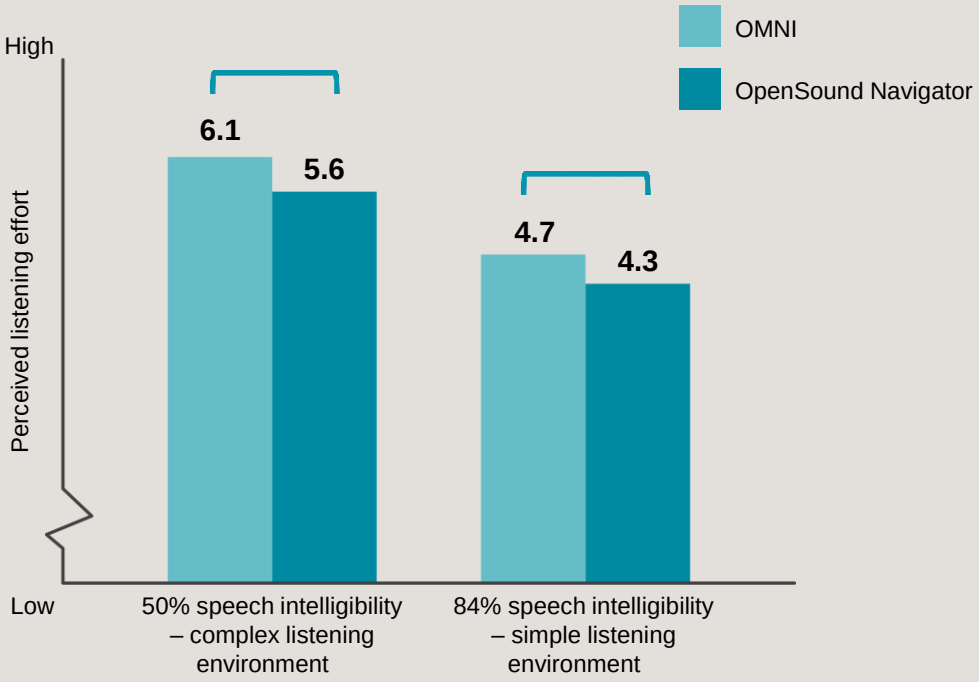
Significantly less listening effort – as reported by children

Study 2



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Study 2

Open sound experience with less effort

– enhancing learning opportunities

Oticon Opn Play breaks a law of physics with OpenSound Optimizer™

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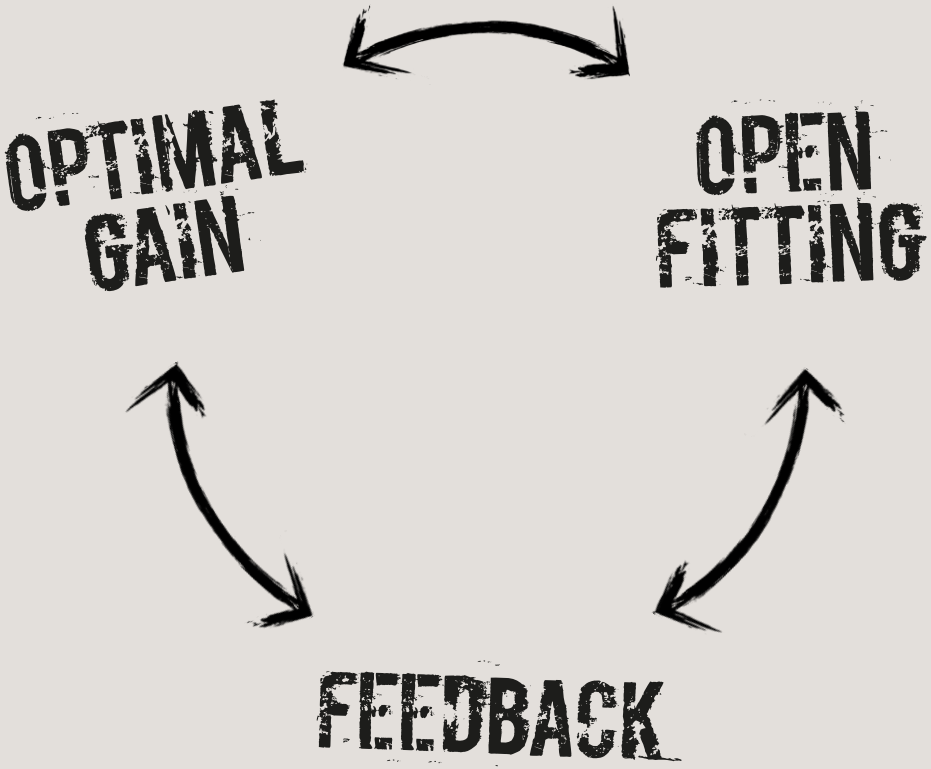

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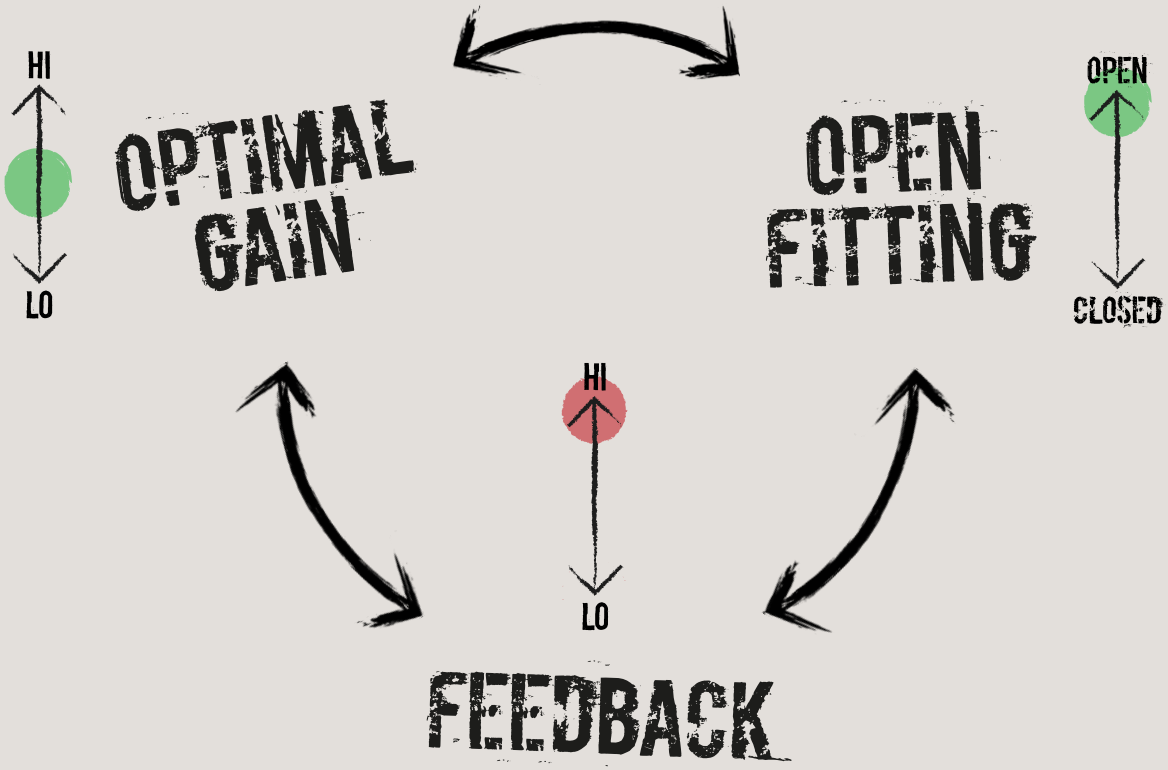

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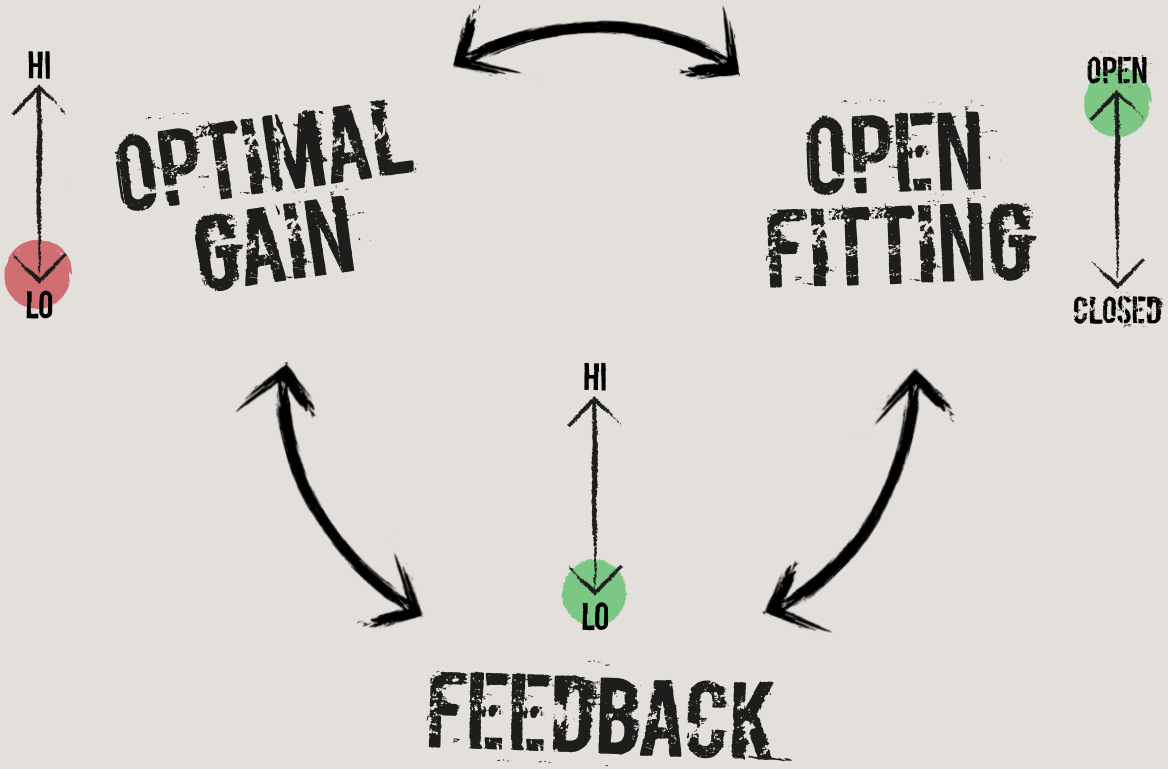

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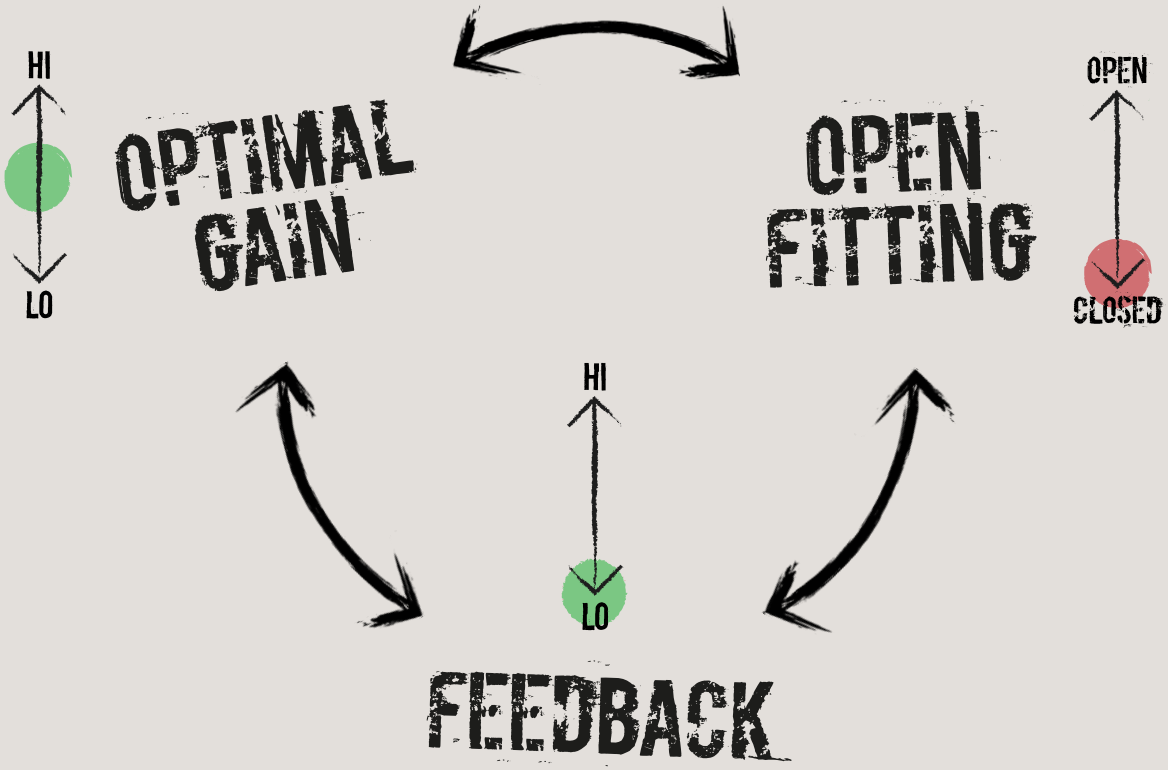

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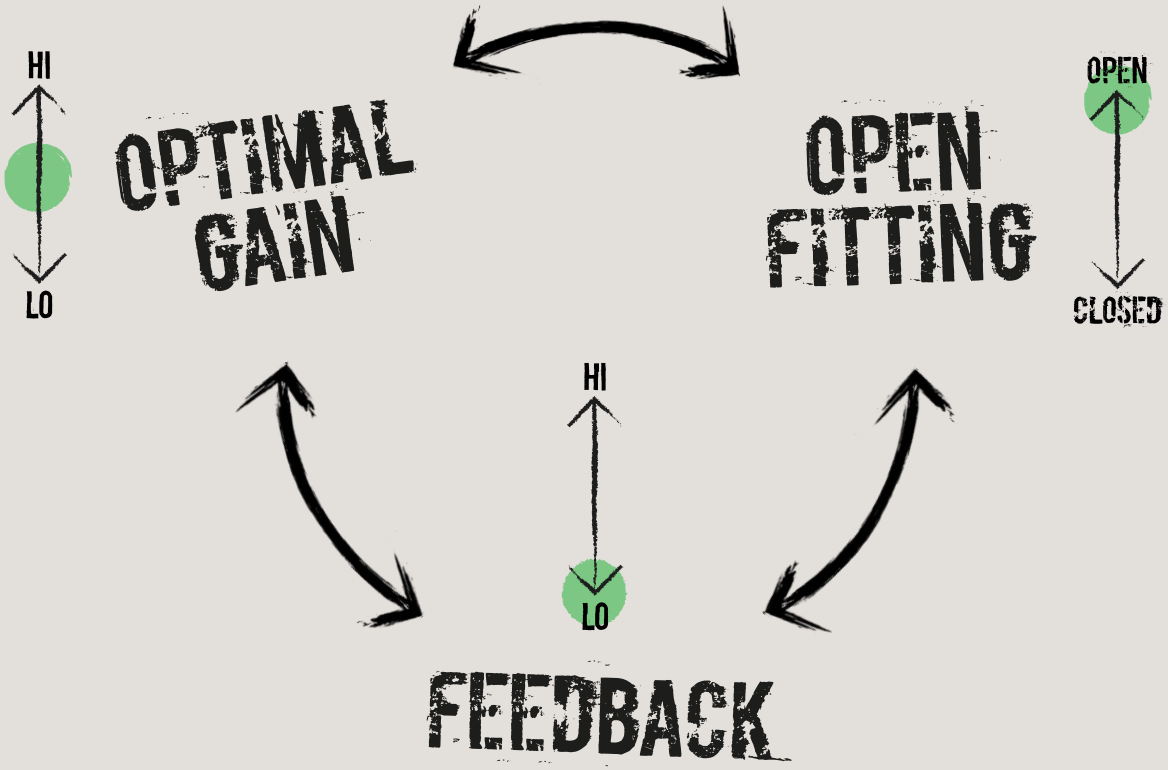

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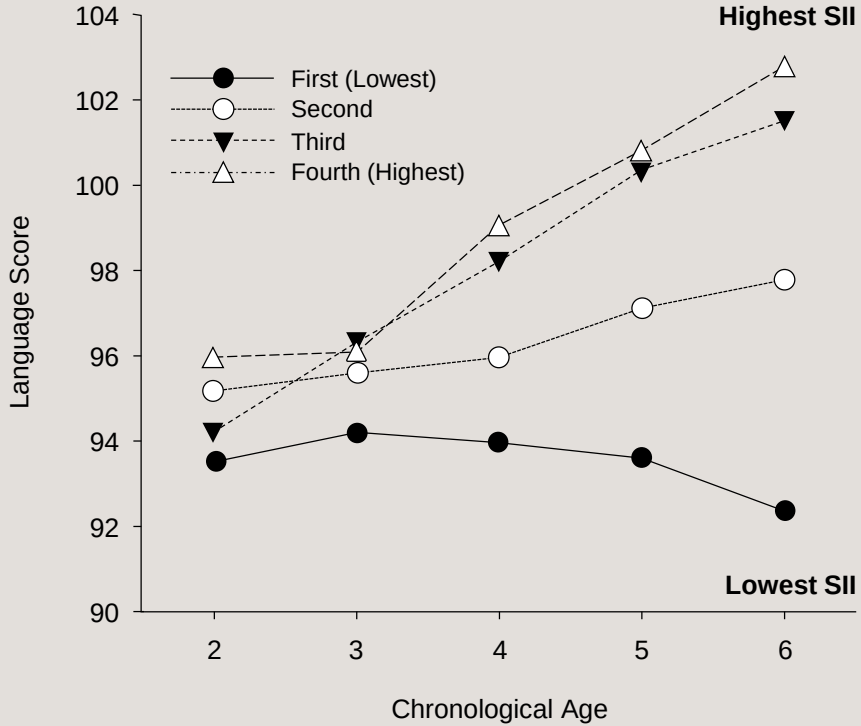
Effect of optimal gain on language development



Audibility has a positive effect on language development

Tomblin et al. 2015

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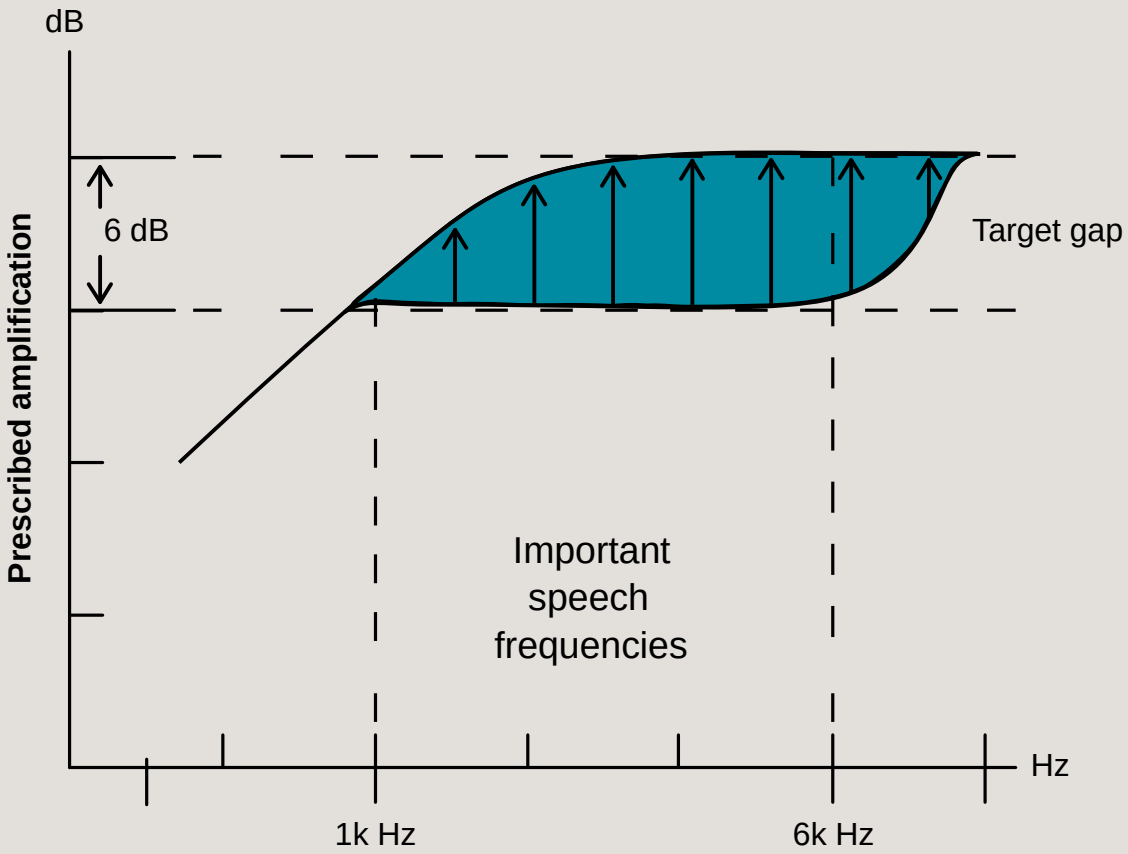
Up to 6 dB more gain in an open fitting



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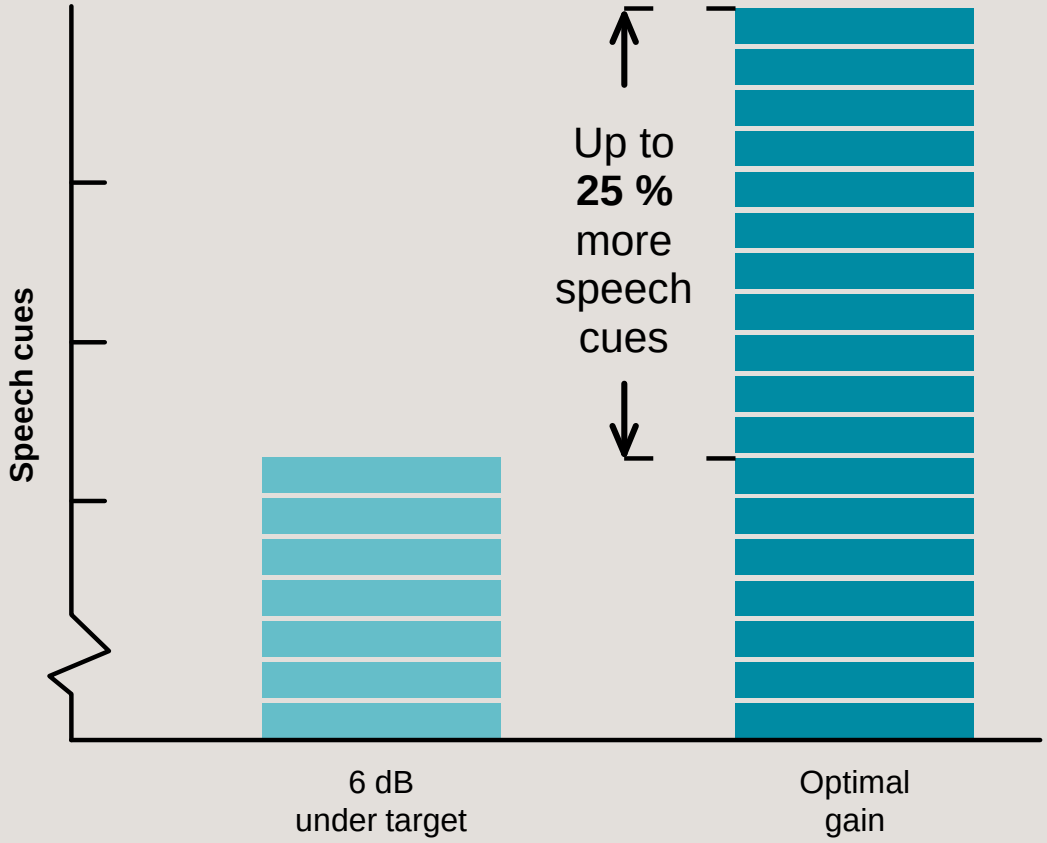
Up to 25% more speech cues to the brain



OpenSound Optimizer

From **feedback management** to **feedback prevention**

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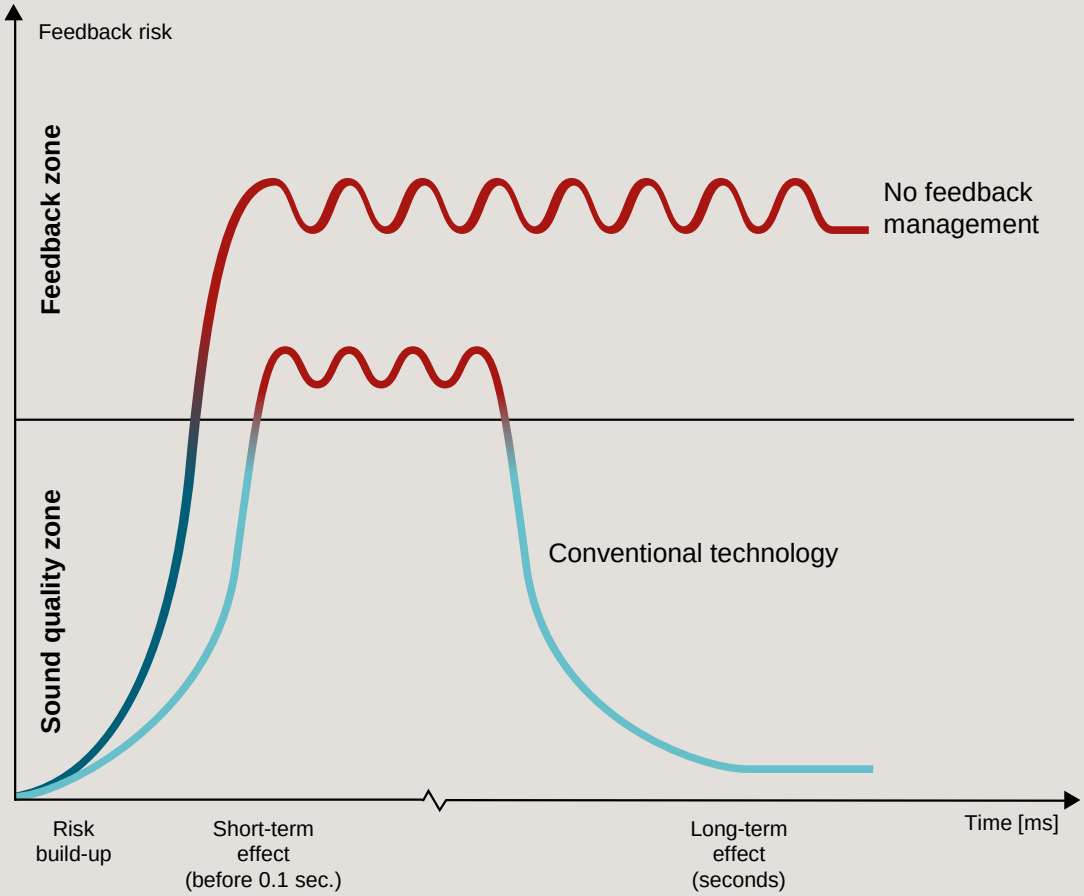
The proactive system provides optimal and stable gain

Fitting without feedback risk

OLD WORLD



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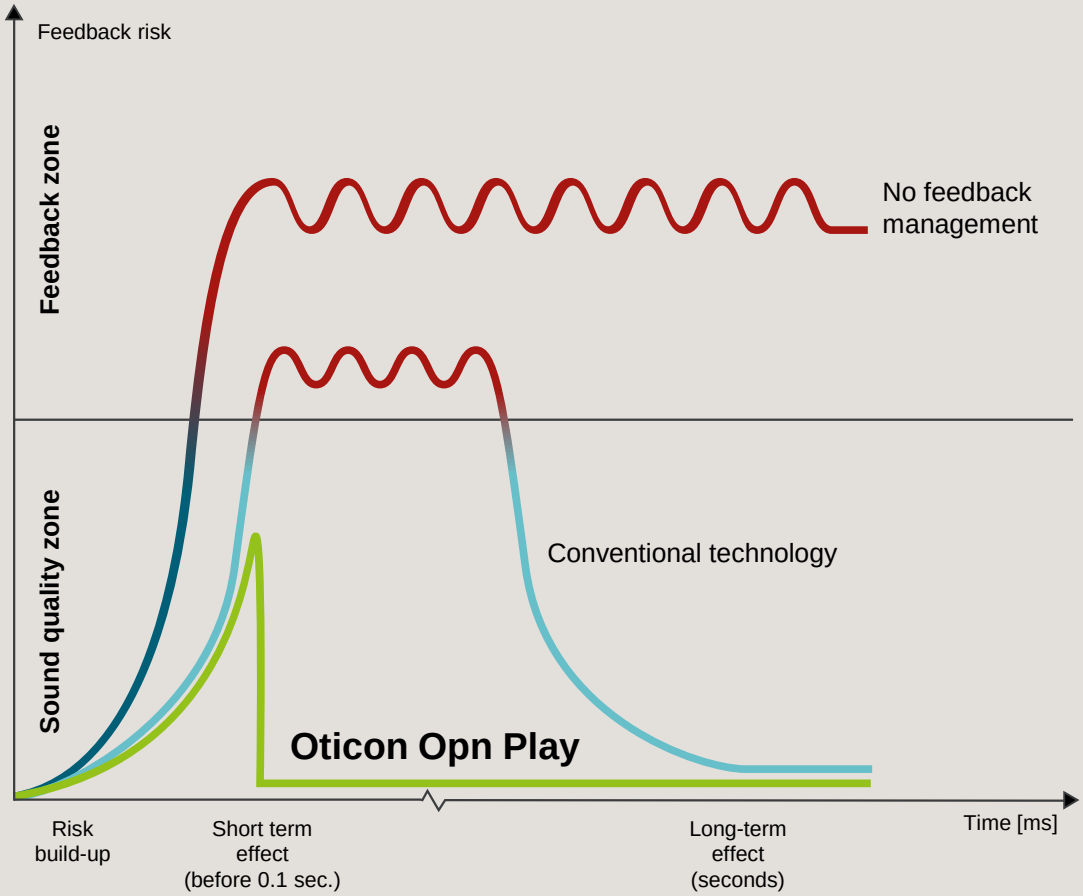
The proactive system provides optimal and stable gain

Fitting without feedback risk

NEW WORLD



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BrainHearing™ in Oticon Opn Play

- Oticon's mission is to ensure a better future for every child with hearing loss

Introducing the Oticon Opn Play product family

Oticon Opn Play connects to more experiences and learning opportunities

Two communication systems in one hearing solution

TwinLink
NFMI + 2.4 GHz

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A full range of easy-to-use solutions for the classroom

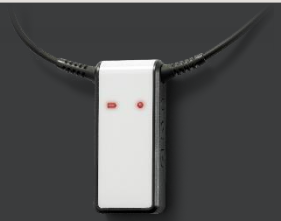
Remote microphone options

TwinLink
NFMI + 2.4 GHz

Completely integrated solution

Other systems

Universal ear-level solution



General neckloop solution

Amigo FM

Design integrated solution

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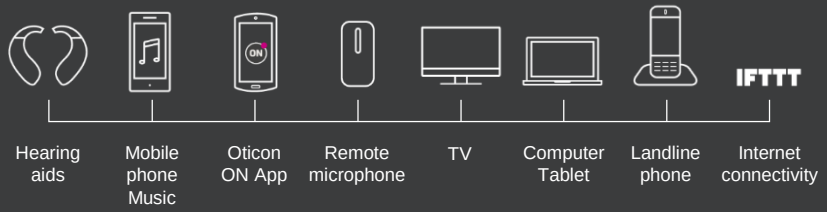
Let children connect easily to the world around them



Made for iPhone | iPad | iPod

Works with any modern smartphone

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Empower parents and children with Oticon ON App

IFTTT

Oticon Opn Play is very much a hearing aid of its time, giving children easy access to a connected world

Download on the App Store

GET IT ON Google Play

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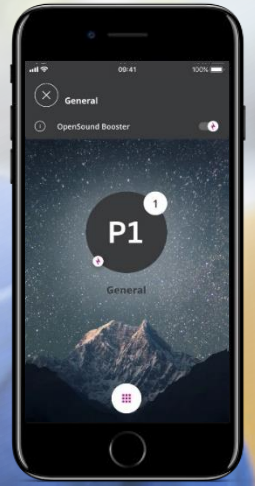
Empowering teens with OpenSound Booster



Triggers extra on-demand support when the teenager feels he or she needs it the most

Oticon redefines child-friendly hearing care

Take a closer look at the compression strategies

Variability of the system

Fast

Adaptive

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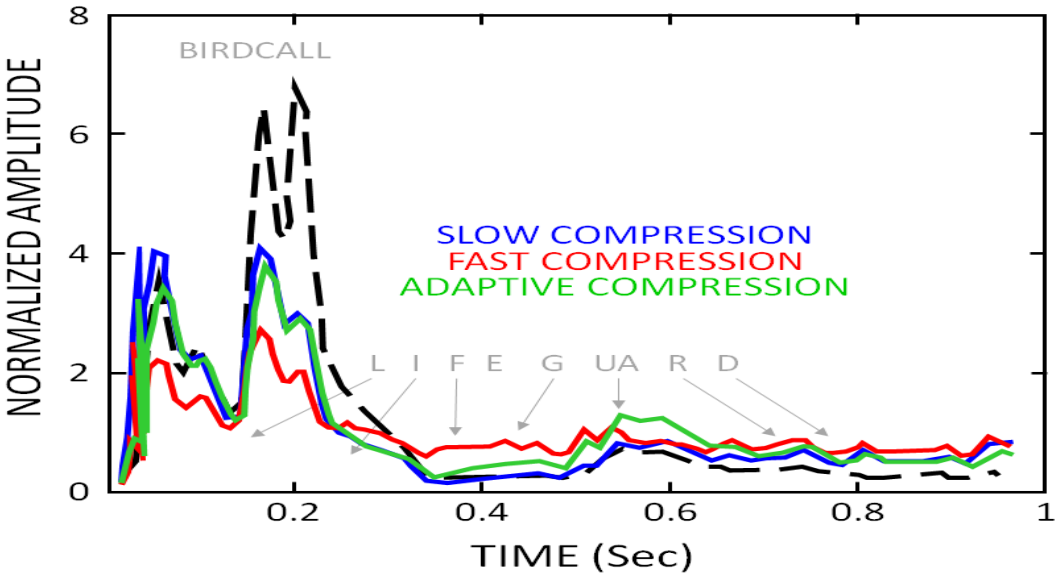
Evidence

Impact on the sound envelope



Pittman et.al. 2014

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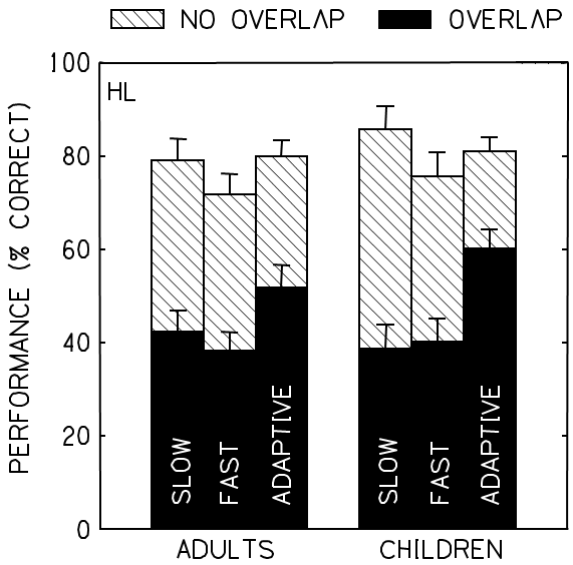
Evidence

Results

Children and adults with hearing loss achieved optimal performance with adaptive compression i.e. Speech Guard E especially in complex listening environments.



Pittman et al. 2014

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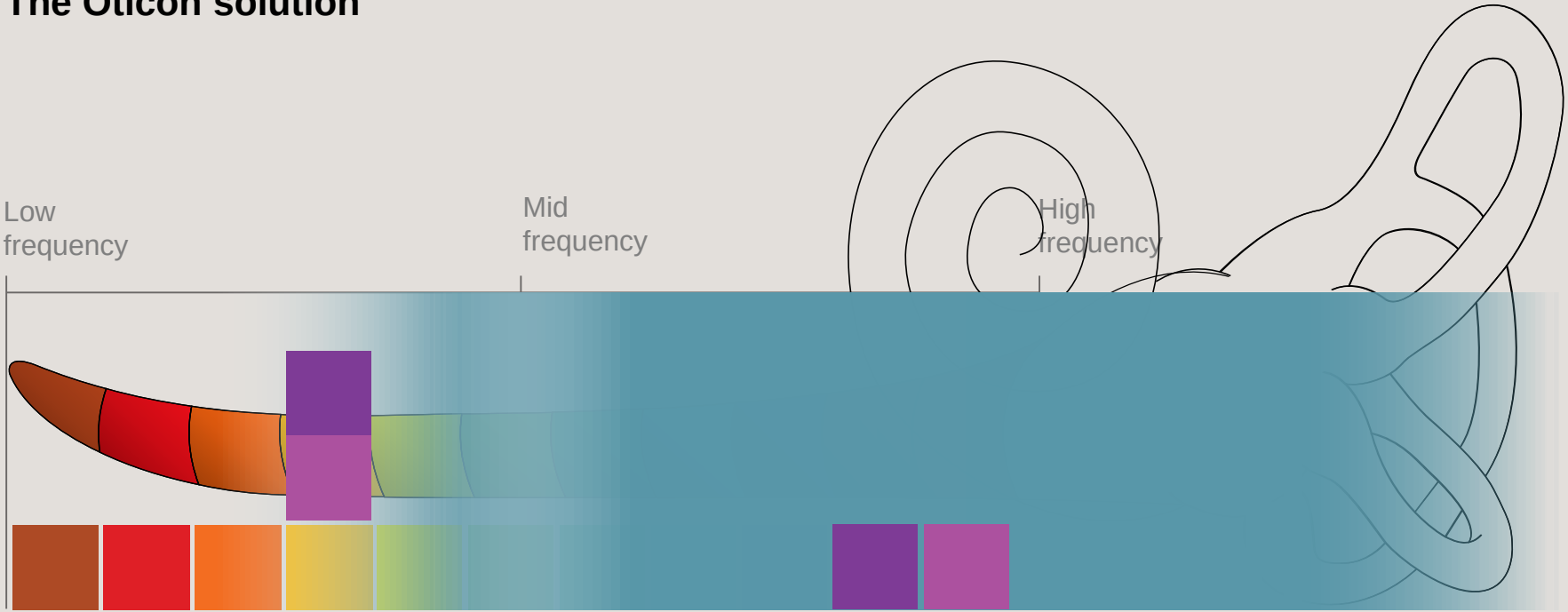
Speech Rescue LX

The Oticon solution



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OTICON | **Opn Play**

Opn Play 1 **Opn Play 2**

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Feature overview

		Oticon Opn Play 1	Oticon Opn Play 2
Speech Understanding	OpenSound Navigator™	Level 1	Level 3
	- Balancing power effect	100%	50%
	- Max. noise removal	9 dB	3dB
	Speech Guard™ LX	Level 1	Level 3
	Spatial Sound™ LX	4 estimators	2 estimators
	Soft Speech Booster LX	●	●
	Speech Rescue™ LX	●	●
Sound Quality	Clear Dynamics	●	-
	Spatial Noise Management	●	-
	Fitting Bandwidth*	10 KHz	8 KHz
	Processing Channels	64	48
	Bass Boost (streaming)	●	●
Listening Comfort	Transient Noise Management	4 configurations	3 configurations
	Feedback shield LX	●	●
	Wind Noise Management	●	●
on itting	YouMatic™ LX	3 configurations	1 configuration
	Fitting Bands	16	12

Product details

The Oticon Opn Play product family

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Oticon Opn Play BTE PP

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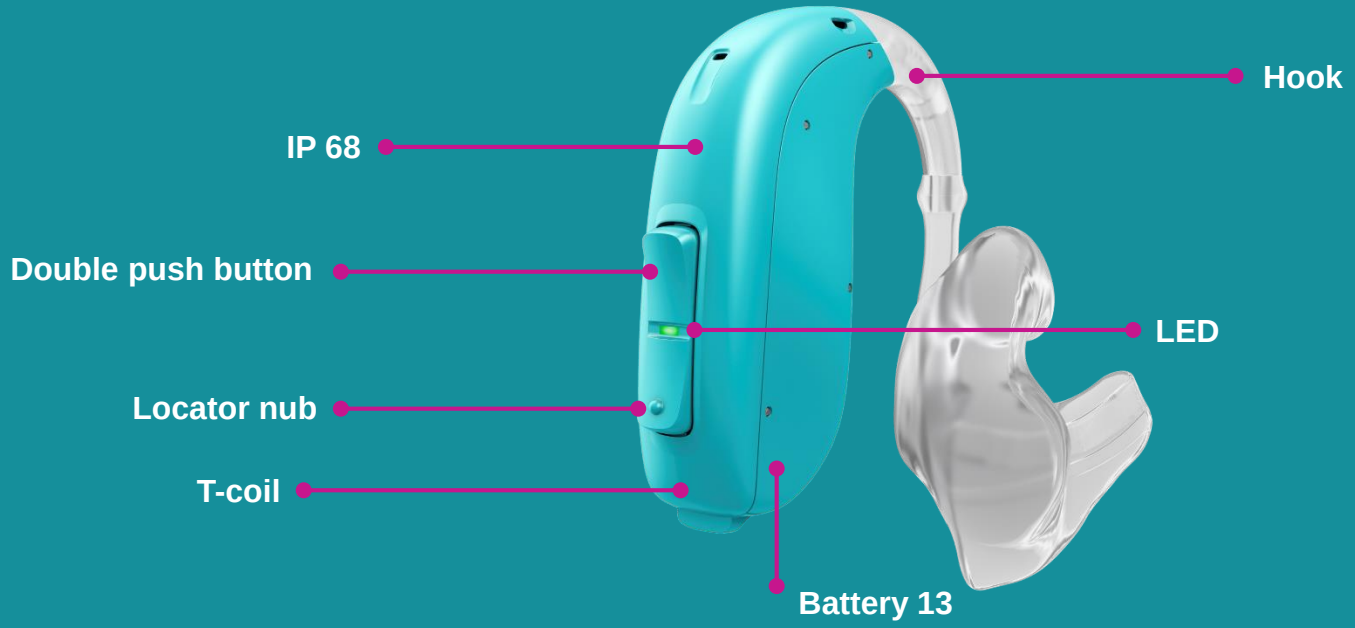
Oticon Opn Play BTE PP



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Oticon Opn Play miniRITE R

Lithium-ion based rechargeable solution

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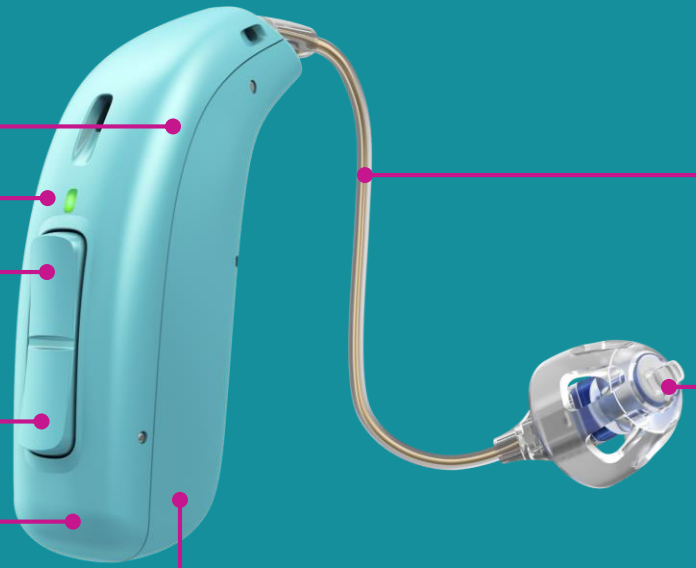
miniRITE R



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A full day’s power. Every day.

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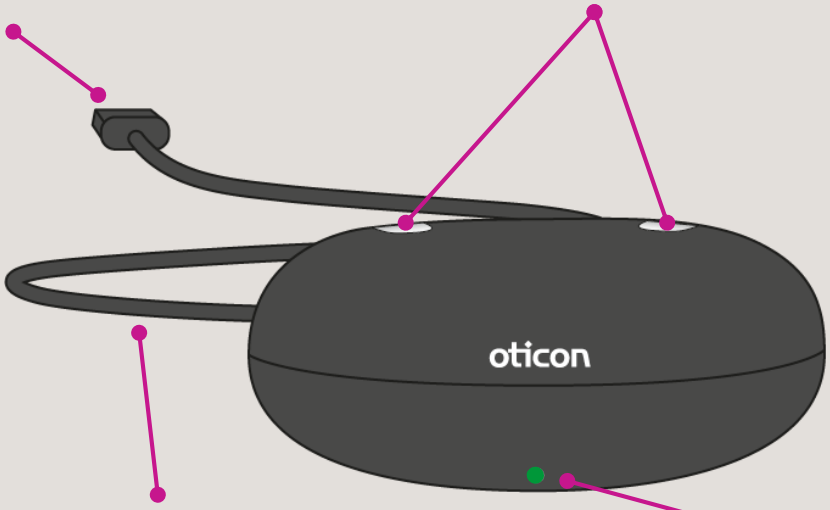
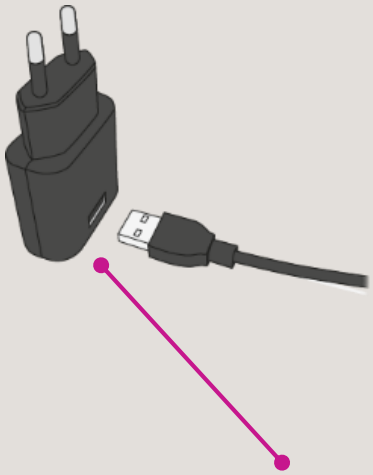
Charger functionality

The overview





**Power plug will vary from country to country*

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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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Instructions for use

Important messages to children and their parents or caregivers

Charging

Charge every night

3 hours of full charge

ON/OFF

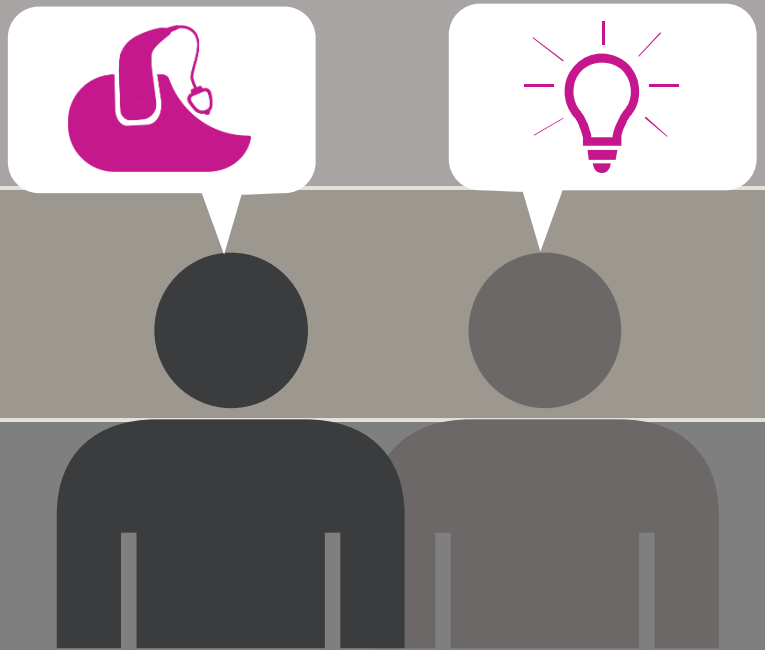
The hearing aids are ON when removed from the charger

Always have the charger connected to power

The charger

Place the hearing aids correctly

Store the hearing aids in the charger, when not used



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Push button control

Devices are automatically ON when removed from the charger

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Oticon Opn Play miniRITE T

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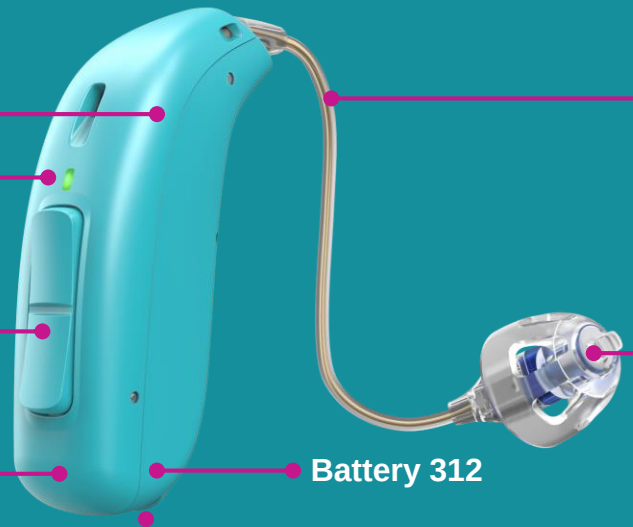
Oticon Opn Play miniRITE T



Oticon Opn Play miniRITE

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Oticon Opn Play miniRITE

Stylish, discreet, and easy to operate

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miniFit earpieces for miniRITE R, miniRITE T, & miniRITE

A variety of options

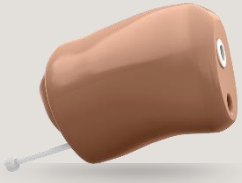
Domes

Grip Tip

VarioTherm® moulds

Custom moulds

Power Flex mould



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Open up to more power

Power options for miniRITE R, miniRITE T, and miniRITE

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Speaker 100

Power Flex mould

Oticon Opn Play product family

Made for iPhone | iPad | iPod

Works with any modern smartphone

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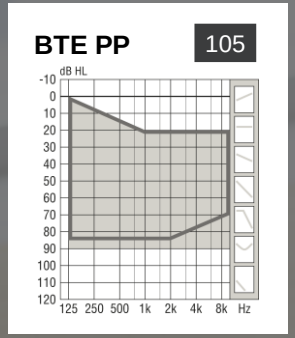
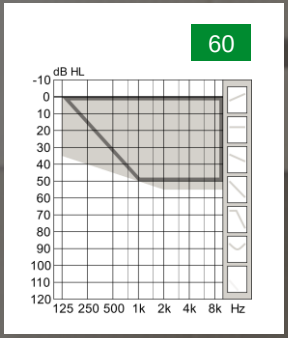
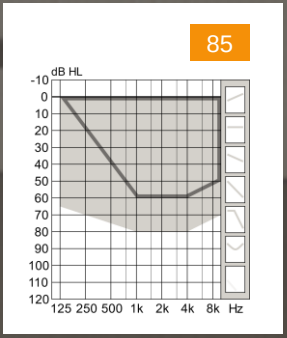
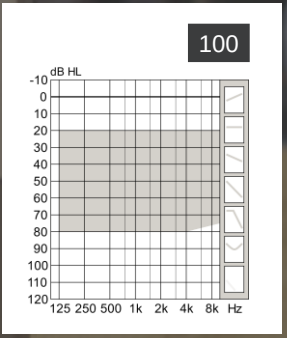
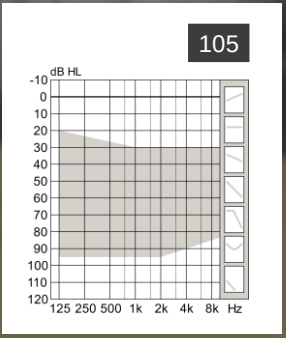
DSL based fitting ranges











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12 colours to meet the needs of most children

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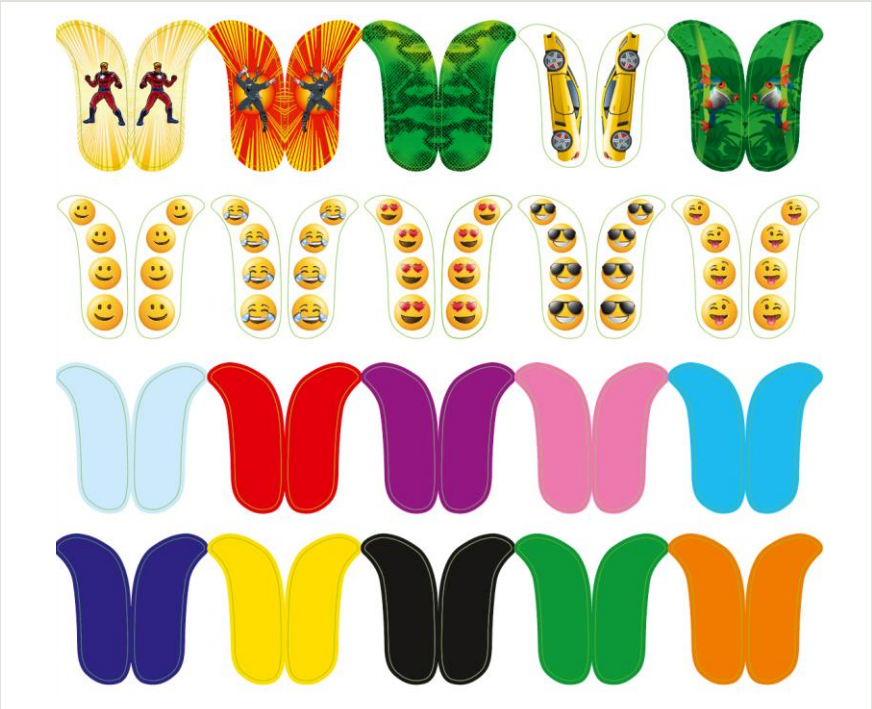
Decorative stickers to accompany them



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Designed to stand up to the test of childhood

Offering the best hearing care without compromising safety and wellbeing

- Robustness
- IP68 certified
  - Also with adapter drawer
- Nanocoated
- Tamper-resistant battery drawer
- LED light
- Free of allergens

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Designed for children

Difference between styles

	BTE PP	miniRITE R	miniRITE T	miniRITE
LED	●	●	●	-
Tamper Resistant Battery Drawer	●	●	-	-
Hypo Allergenic	●	●	●	●
IP Rating	IP68	IP68	IP68	IP68
Nano Coating	●	●	●	●
Colour Options	12	12	12	12
Integrated 2.4 GHz Receiver	●	●	●	●

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…of all ages

	BTE PP	miniRITE R	miniRITE T	miniRITE
Newborn				
Preschool				
School <10 yrs >10 yrs				
Teenagers				

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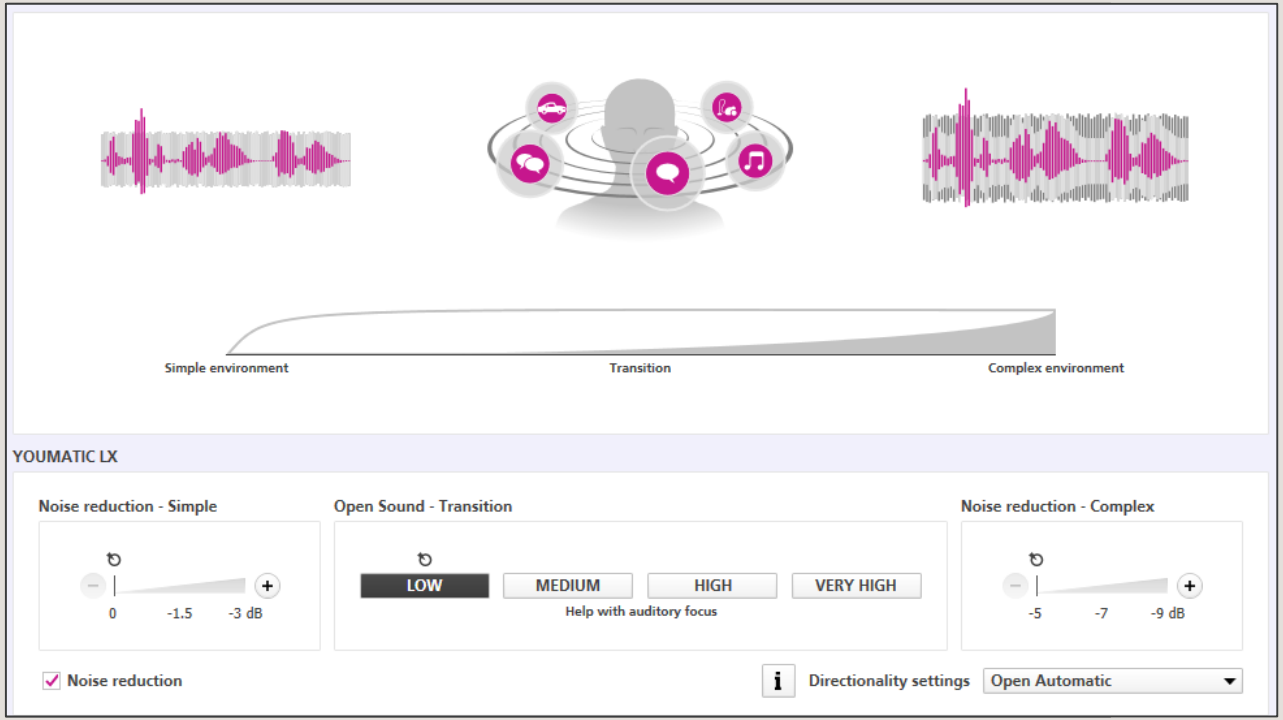
Programming highlights in Genie 2

OpenSound Navigator – delivering on best practice



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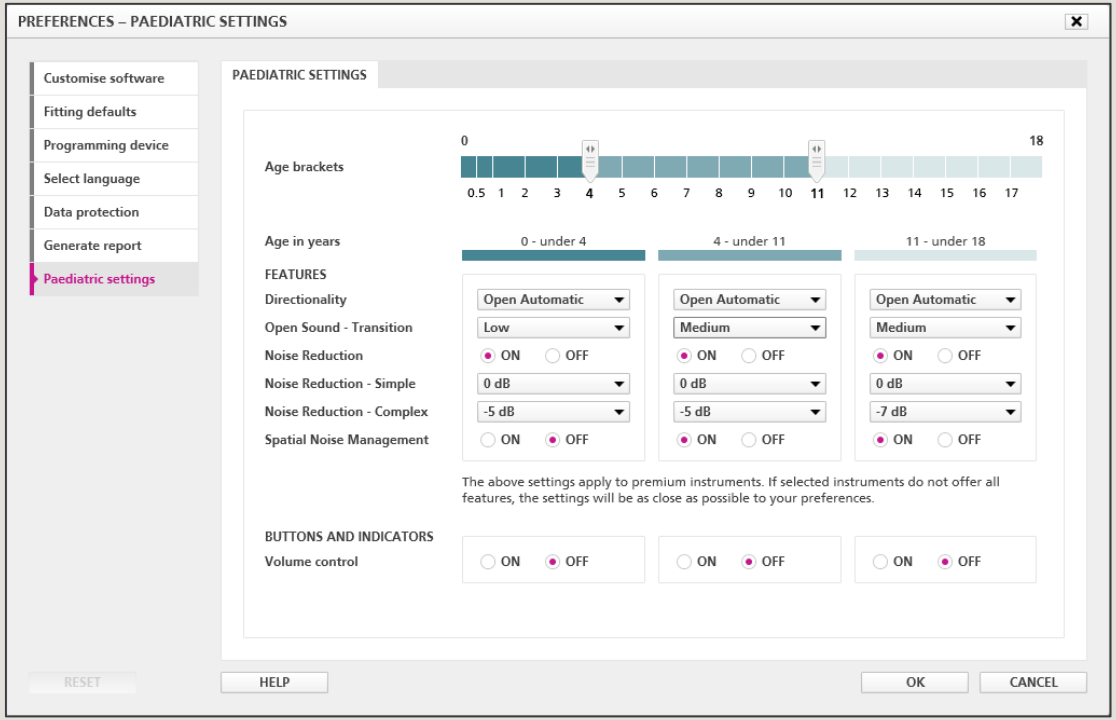
Paediatric settings



OpenSound Navigator – New setting

New VERY HIGH Open Sound - Transition

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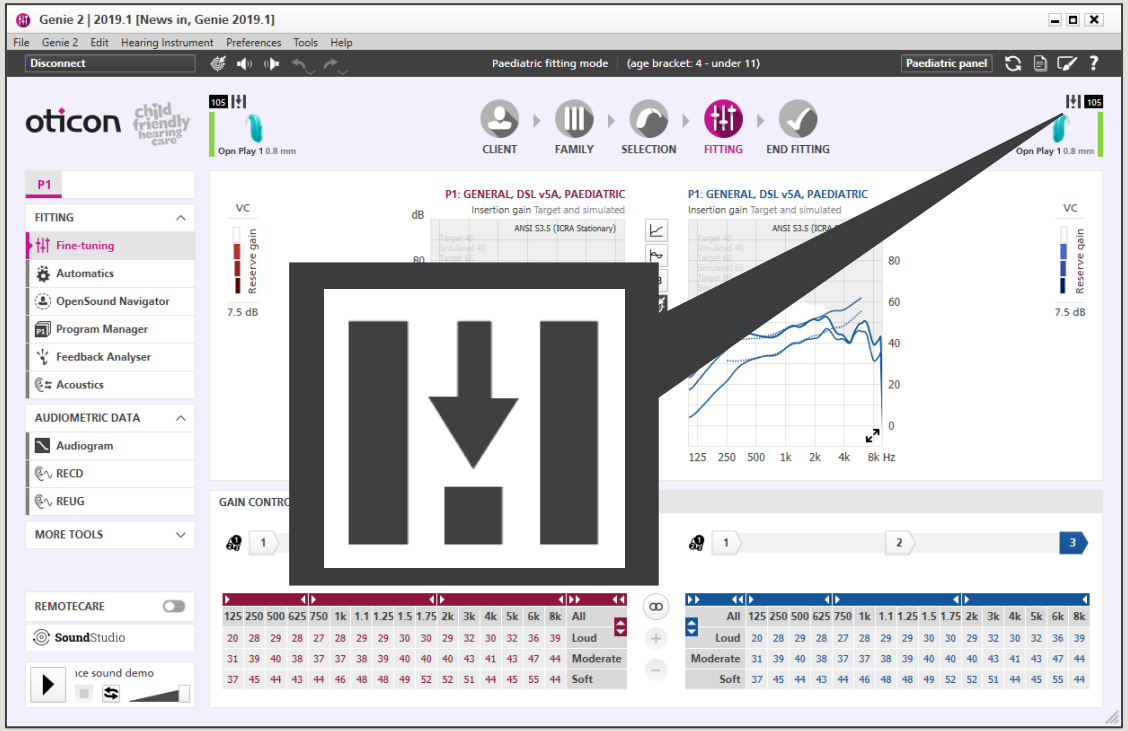
OpenSound Optimizer

Unstable Gain Indicator



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Easy, but very important verification

REM AutoFit can be used with major REM systems

Interacoustics

Affinity 2.0
Callisto
Equinox 2.0

MedRx

ARC
REM Speech+
REMsp

otometrics

AURICAL FreeFit

audioscan
Professional Verification

Verifit1
Verifit2

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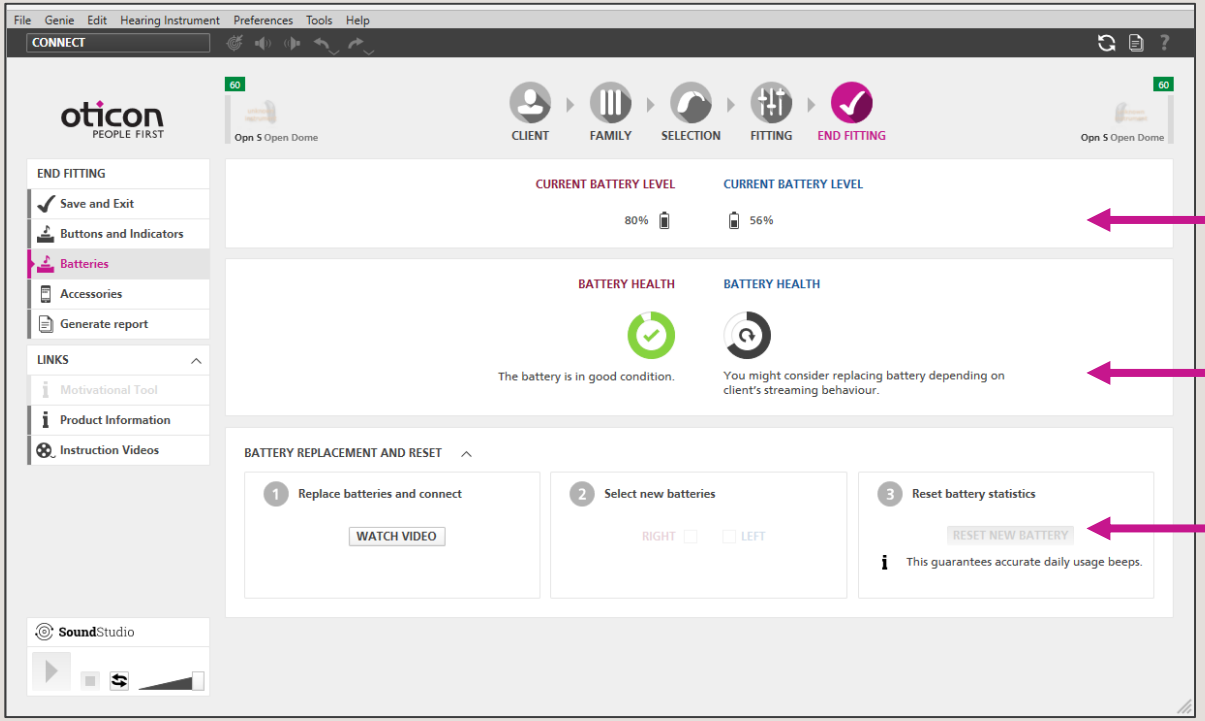
miniRITE R in Genie 2

End Fitting/Batteries



Current battery level

Battery health

Battery replacement

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Programming options

Wireless

Recommendation:
Noahlink Wireless

Cable

Recommendation:
HI-PRO2

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Summary

- OpenSound Navigator lets children enjoy a full and balanced soundscape
- OpenSound Optimizer – optimizes audibility for better language development
- New Velox S platform is more advanced and powerful than ever
- Solid evidence package
- A broad range of connectivity options for enhanced learning and communication

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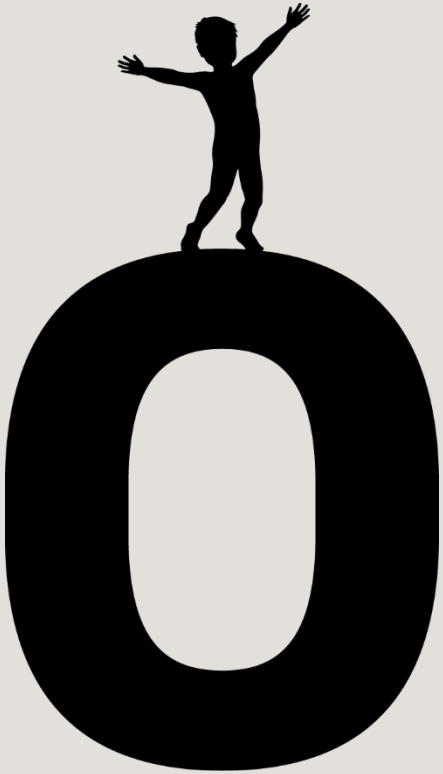

Let every child open up to the world

– even in complex learning environments

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Thank You!