

**Pediatric
Portfolio**

**A better future
for every child
with hearing loss**



A better future for every child with hearing loss

Our audiological mission defines the future of pediatric hearing care at Oticon. Through it, we will fulfill our united goal to give every child what they need to become who they want to be. It will assist all of us in better meeting every child's individual needs and help guide them on their journey to adulthood.

At Oticon, we believe by optimizing auditory and cognitive habilitation and by embracing the complexities associated with growing up with hearing loss, we will empower you to adapt solutions to fit children's needs at every stage of their development.

Every child is unique!

We aim to deliver solutions, tools and techniques that offer you everything you need to provide **a better future for every child** with hearing loss.

That's our mission. That's where we want to go. Together.



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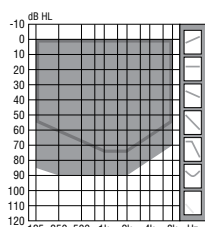
Sensei BTE



BTE

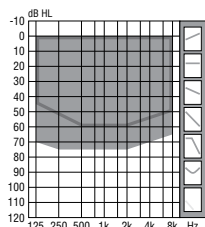
BTE corda*

BTE13



Custom mold
Corda miniFit

BTE312



Custom mold
Corda miniFit

	Sensei Pro BTE13	Sensei BTE13	Sensei Pro BTE312	Sensei BTE312
MPO/Gain Ear Simulator	135/68	135/68	126/61	126/61
Fitting formulas	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL
Speech Guard E	•		•	
SmartFit™ Trainer	•		•	
EasyRECD™	•		•	
Voice Priority i™	•	•	•	•
Inium feedback shield	•	•	•	•
LED status indicator	•	•	•	•
Bin Synchronization (automatics)	•		•	
Bin Coordination (PB)	•	•	•	•
Bin Coordination (VC)	•	•	•	•
Noise Management	TriState	TriState	TriState	TriState
Adaptive Directionality	Multi band	Single band	Multi band	Single band
Fitting bandwidth	10 kHz	10 kHz	10 kHz	10 kHz
Fitting bands	10	8	10	8
Power Bass	•		•	
Music Widening	•		•	
Soft, moderate, loud gain adjustment	•	•	•	•
Frequency channels	16	16	16	16
Program control	•	•	•	•
Volume control	•	•	•	•
Tamper resistant battery door**	•	•	•	•
Telecoil	•	•	•	•
AutoPhone	•	•	•	•
ConnectLine compatible	•	•	•	•
FM compatible	•	•	•	•
FM compatibility filter	•	•	•	•
FM Super Silencer	•	•	•	•
Pediatric Fitting Mode	•	•	•	•
Colors	11	11	11	11
Battery size	13	13	312	312
Battery life	240	240	130	130

SENSEI COLORS

90 Chroma Beige	94 Terracotta	93 Chestnut Brown	44 Silver	63 Diamond Black	
42 Baby Blue	43 Baby Pink	45 Purple	46 Red	47 Blue	48 Emerald Green

Sensei RITE

	Sensei Pro RITE*	Sensei RITE*
MPO/Gain Ear Simulator	132/66 127/65 115/46	132/66 127/65 115/46
Fitting formulas	DSL, NAL	DSL, NAL
Speech Guard E	•	
EasyRECD™	•	
Voice Priority i™	•	•
Inium feedback shield	•	•
LED status indicator	•	•
Bin Synchronization (automatics)	•	
Bin Coordination (PB)	•	•
Bin Coordination (VC)	•	•
Noise Management	TriState	TriState
Adaptive Directionality	Multi band	Single band
Fitting bandwidth	10 kHz	10 kHz
Fitting bands	10	8
Power Bass	•	
Music Widening	•	
Soft, moderate, loud gain adjustment	•	•
Frequency channels	16	16
Program control	•	•
Volume control	•	•
Tamper resistant battery door**	•	•
Telecoil	•	•
AutoPhone	•	•
ConnectLine compatible	•	•
FM compatible	•	•
FM compatibility filter	•	•
FM Super Silencer	•	•
Pediatric Fitting Mode	•	•
Colors	11	11
Battery size	312	312
Battery life	120	120

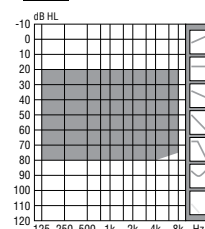
*) Children aged 0-36 month should not be fit with RITE or Corda instruments. They contain detachable parts that may present a choking hazard.

**) Children aged 0-36 months must always have the tamper resistant battery door installed.



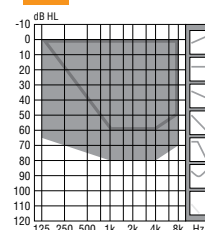
RITE

100



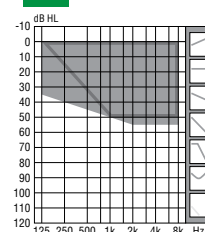
■ Custom mold, Bass & Power dome
□ Open dome

85



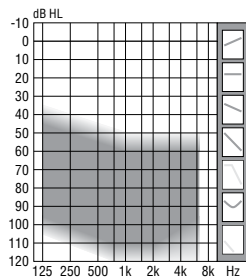
■ Custom mold, Bass & Power dome
□ Open dome

60



■ Custom mold, Bass & Power dome
□ Open dome

Safari SP BTE



	Safari SP 900 BTE	Safari SP 600 BTE	Safari SP 300 BTE
MPO/Gain Ear Simulator	143/82	143/82	143/82
Fitting formulas	DSL, NAL	DSL, NAL	DSL, NAL
Speech Guard	•	•	
Spatial Sound	•		
LED status indicator	•	•	•
DFC2	•	•	•
Binaural Processing (compression)	•		
Bin Synchronization (automatics)	•		
Bin Coordination (PB)	•	•	•
Bin Coordination (VC)	Analog	Analog	Analog
Spatial Noise Management	•		
Noise Management	TriState	Modulation	Modulation
Adaptive Directionality	Multi band	Multi band	Single band
Fitting bandwidth	6.5 kHz	6.5 kHz	6.5 kHz
Power Bass	•		
Music Widening	•		
Fitting bands	9	8	6
Frequency channels	16	16	16
Program control	•	•	•
Volume control	•	•	•
Tamper resistant battery door*	•	•	•
Telecoil	•	•	•
AutoPhone	•	•	•
ConnectLine compatible	•	•	•
FM compatible	•	•	•
Pediatric Fitting Mode	•	•	•
Colors	10	10	10
Battery size	13	13	13
Battery life	186	186	186

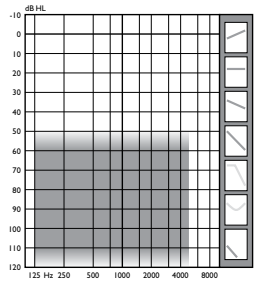
SAFARI SP COLORS

90 Chroma Beige	94 Terracotta	93 Chestnut Brown	44 Silver	63 Diamond Black
42 Baby Blue	43 Baby Pink	45 Purple	46 Red	47 Blue



Sumo DM Super Power

	Sumo DM BTE
MPO/Gain Ear Simulator	144/85
Fitting formulas	DSL, NAL
LED status indicator	•
Dynamic Feedback Cancellation	•
Noise Management	TriState
Identities	4
Fitting bandwidth	5 kHz
Fitting bands	8
Frequency channels	8
Program control	•
Volume control	•
Tamper resistant battery door*	•
Telecoil	•
FM compatible	•
Colors	10
Battery size	675
Battery life	290



*) Children aged 0-36 months must always have the tamper resistant battery door installed.

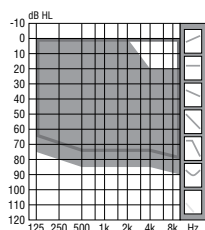
SUMO COLORS



Alta



miniBTE



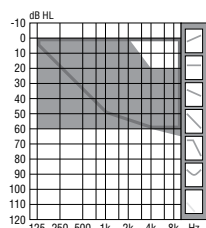
85

Custom mold

Corda* miniFit



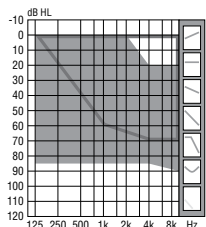
miniRITE



60

Custom mold
Power dome

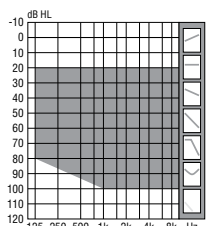
Open dome



85

Custom mold
Power dome

Open dome



100

Custom mold
Power dome

Open dome

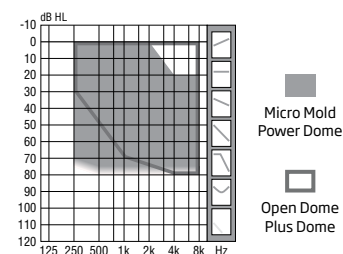
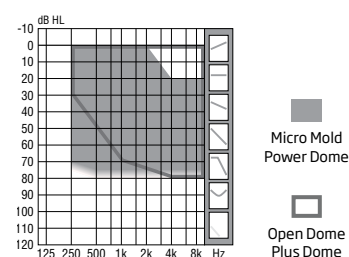
	Alta Pro miniBTE	Alta miniBTE	Alta Pro miniRITE*	Alta miniRITE*
MPO/Gain Ear Simulator	131/62	131/62	132/66 127/65 115/46	132/66 127/65 115/46
Fitting formulas	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC
Speech Guard E	•	•	•	•
Spatial Sound	•		•	
YouMatic	•	•	•	•
Inium feedback shield	•	•	•	•
Binaural Processing (compression)	•		•	
Bin Synchronization (automatics)	•	•	•	•
Bin Coordination (PB)	•	•	•	•
Binaural Noise Management	•		•	
Noise Management	TriState	TriState	TriState	TriState
Adaptive Directionality	Multi band	Multi band	Multi band	Multi band
Front Focus	•	•	•	•
Artificial Intelligence	Premium	Premium	Premium	Premium
Fitting bandwidth	10 kHz	10 kHz	10 kHz	10 kHz
Power Bass	•	•	•	•
Music Widening	•	•	•	•
Learning	•	•	•	•
Fitting bands	10	10	10	10
Frequency channels	16	16	16	16
Program control	•	•	•	•
Volume control	Streamer	Streamer	Streamer	Streamer
Tamper resistant battery door**	•	•	•	•
AutoPhone	•	•	•	•
ConnectLine compatible	•	•	•	•
FM compatible	Streamer	Streamer	Streamer	Streamer
Pediatric Fitting Mode	•	•	•	•
Colors	7	7	7	7
Battery size	312	312	312	312
Battery life	130	130	130	130

ALTA COLORS

90	94	93	44	91	92	63
Chroma Beige	Terracotta	Chestnut Brown	Silver	Silver Grey	Steel Grey	Diamond Black



Intiga



	Initiga 10*	Initiga 8*	Initiga 6*
MPO/Gain Ear Simulator	119/58	119/58	119/58
Fitting formulas	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC
Speech Guard	•		
DFC2	•	•	•
Binaural Processing (compression)	•		
Bin Synchronization (automatics)	•	•	
Binaural Noise Management	•		
Noise Management	TriState	TriState	Modulation
Adaptive Directionality	Multi band	Multi band	Single band
Free Focus	•	•	•
Artificial Intelligence	Premium	Advanced	Essential
Identities	5	3	3
Fitting bandwidth	10 khz	8 kHz	8 kHz
Power Bass	•		
Music Widening	•		
Learning	•	•	
Fitting bands	10	8	6
Frequency channels	16	16	16
Program control	Streamer	Streamer	Streamer
Volume control	Streamer	Streamer	Streamer
ConnectLine compatible	•	•	•
FM compatible	Streamer	Streamer	Streamer
Colors	10	10	10
Battery size**	10	10	10
Battery life	80-100	80-100	80-100

*) Children aged 0-36 month should not be fit with RITE or Corda instruments. They contain detachable parts that may present a choking hazard.

**) No Tamper resistant door available for Intiga. Children aged 0-36 months must always have the tamper resistant battery door installed.

INTIGA COLORS

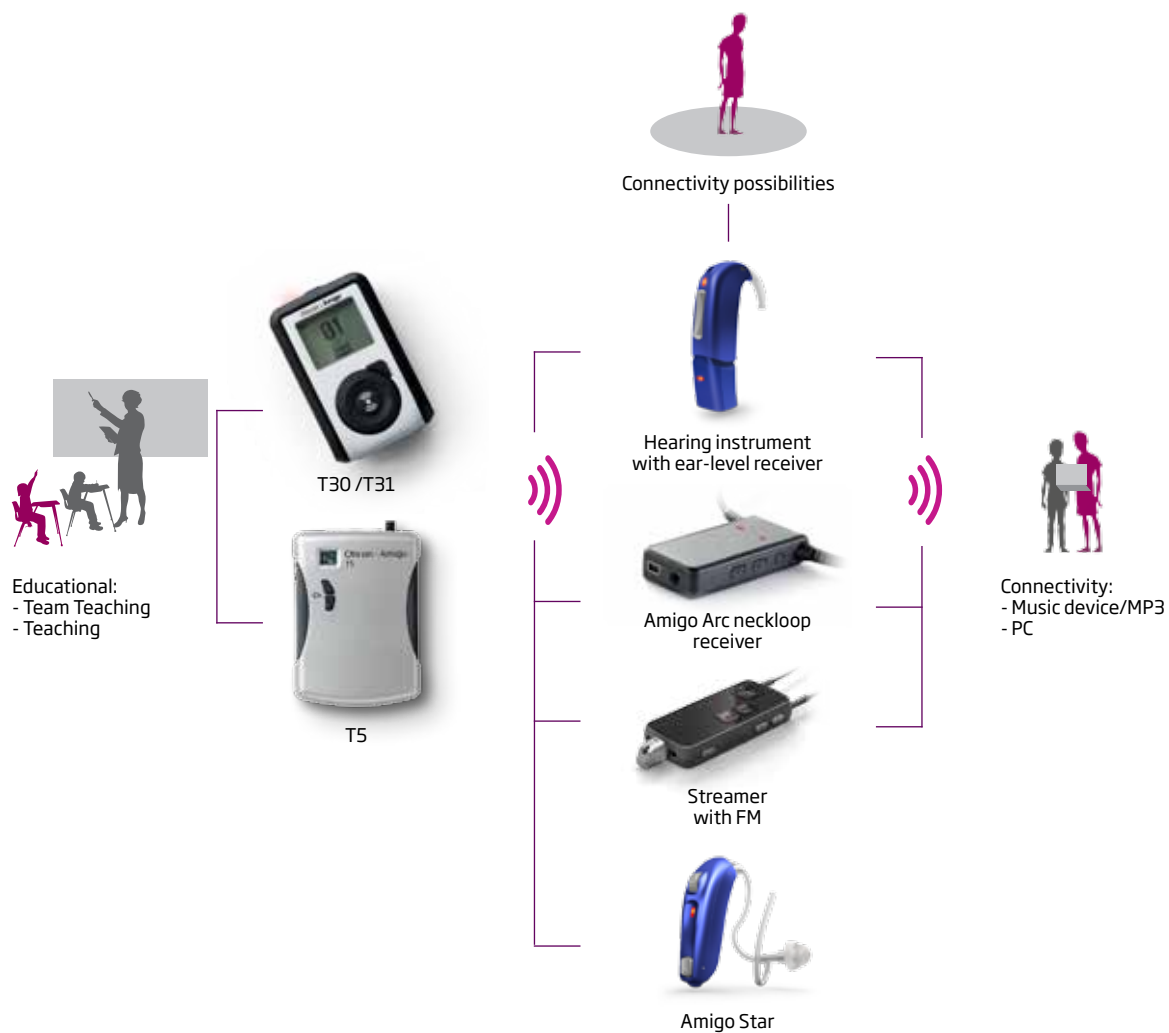
90 Chroma Beige	94 Terracotta	93 Chestnut Brown	44 Silver	91 Silver Grey	92 Steel Grey	63 Diamond Black
95 Vivid Lilac	97 Natural Henna	98 Pure White				

Freedom to learn, interact and socialize



Oticon's wide range of connectivity possibilities

Amigo delivers what is crucial for children with hearing loss for their language development, learning and socializing: the best possible speech intelligibility in difficult listening situations.





Amigo T30 and T31

Champion performance in classrooms

Imagine a transmitter that's intuitive, easy to use, and meets all your basic needs. Now imagine something far more advanced, that makes classroom life much easier. Amigo makes all of this possible.

Features:

- Intuitive menu and user interface
- Intelligent voice optimization and noise management
- Robust, moisture repellent design
- Exchangeable, rechargeable/Alkaline AA batteries
- One touch Team Teaching
- 1 version for the entire world: 169-218 MHz
- Bandwidth 8.5 kHz
- Digital Signal Processing
- External antenna built into microphone cord
- Standard AA NiMH batteries
- Fail safe charging sensor
- More than 10 hours of battery life
- One touch mute

Benefits:

- Minimum programming for instant use
- On-the-spot programming, synchronization and fitting
- Tough enough to withstand rough treatment
- Team Teaching strategy allows a natural overlap of verbal communication with children

Accessories:

- Microphones: Omni directional, directional or boom
- Wearing: Belt clip, waist pouch
- Skins: 10 colors



Colorful skins for all Amigo transmitters



Amigo T30

Amigo T5



Essential FM in body-worn solutions

The Amigo T5 is a cost-effective body-worn FM transmitter, perfect for demanding environments. A simple user interface and clear controls make it readily accessible and highly reliable. A wide variety of accessories support a broad range of applications. Straightforward, reliable and very cost efficient, Amigo T5 offers clear access to the teacher's voice

Features:

- Simple and visible controls
- Intuitive menu and user interface
- Robust, moisture repellent design
- Bandwidth 7 kHz
- External antenna built into microphone cord
- Standard AAA NiMH batteries
- Fail safe charging sensor
- More than 10 hours of battery life
- One touch mute

Benefits:

- Minimum setup for instant use
- Quick battery replacement
- Tough enough to withstand rough treatment



Amigo T5 with lapel microphone



Amigo T5 with auxiliary cables



Amigo FM receivers

Freedom to mix and match

Amigo FM solutions are easy to use for teachers and children alike. Amigo receivers work with all Amigo transmitters – plus most other brands – to make life in the classroom easier. Most receivers feature a Silencer function, which lowers the noise up to 8 dB whenever the teacher stops talking.



Amigo R12

Dedicated receiver for Oticon Sensei, Safari SP, Agil and many other Oticon BTE models. Push button for on/off and channel seek/change.



Amigo R2

Universal receiver for virtually all BTE instruments. Features a unique push button for channel seek/change.



Amigo R2 BA

Universal receiver for Oticon Medical "Ponto" bone-anchored sound processors. Offers the same functionality as the Amigo R2.



Amigo R7

Dedicated receiver for Sumo BTE styles. Offers the same functionality as the Amigo R2.



Amigo Star

FM receiver for people with normal hearing, to overcome the effects of distance, poor room acoustics, and background noise.



Amigo Arc

Neckloop FM receiver for use with hearing instruments, cochlear implants and bone anchored hearing systems.

	R12	R2	R2BA	R7	Amigo Star	Amigo Arc
Connection	Most Oticon BTE and RITE styles except miniBTE, miniRITE	Universal 3-pin euro connector	Ponto bone-anchored systems	Sumo BTE styles		Telecoil Headphones
Features						
Multi-channel	✓	✓	✓	✓	✓	✓
Wireless programming	✓	✓	✓	✓	✓	✓
Wireless synchronization	✓	✓	✓	✓	✓	✓
LED indicator	✓	✓	✓	✓	✓	✓
Channel seek function	✓	✓	✓	✓	✓	✓
Program switch	✓	✓	✓	✓	✓	✓
Color options	13 Colors	Silver	Silver	Silver	5 Colors	5 Colors

Amigo Arc



A neckloop receiver students want to wear

The Amigo Arc is an attractive way to get FM via the telecoil in hearing instruments, cochlear implants or bone anchored hearing systems. Looking more like a small mp3 player than an assistive listening device, Amigo Arc offers connection and discretion in one. The contemporary design and discreet colors offer plenty of flexibility to wear it around the neck or hide it inside one's shirt.

Features:

- Discreet size and design
- Exchangeable colored shells
- Tamper resistant volume and channel buttons
- 2 LEDs - FM indicator and battery life
- Music bass boost
- Loops come in two lengths: 55 and 75 cm (21/30 in)
- Rechargeable battery with long battery life

Benefits:

- Resembles other popular electronic devices
- Instant visual confirmation of FM integrity
- Optional personalization with exchangeable shells
- Elevated sound experience when listening to music

Accessories:

- Headphones: useful for unaided children with listening difficulties.
- Auxiliary audio input: easy connection to other audio sources



Amigo T31



Amigo Arc

Listening accessory	Benefit
Headphones	Useful for unaided children with listening difficulties
Auxiliary audio input	Easy connection to other audio sources



Black Dark red Dark blue White Silver

Personalize Amigo Arc with colorful shells - easy to click on and off.



Amigo Star

An ear-level FM receiver that is comfortable, easy-to-use and reliable

The Amigo Star is for children with normal hearing who can benefit from an Assistive Listening Device, in order to overcome the negative effects of distance, poor room acoustics, and background noise commonly found in classrooms. Amigo Star empowers school children with listening difficulties and allows them to reach their full potential.



Features

- Volume control wheel with on/off function
- Channel seek button
- 6 color options
- Tamper resistant battery door
- LED FM indicator
- Customizable with Corda fitting system
- Robust construction
- IP57 Classification
- Intelligent Sleep and Off modes

Benefits:

- Can be used with almost any FM transmitter
- Ready to use straight out of the box
- Instant visual confirmation of FM integrity
- Water and dust resistant (IP57)
- Extremely comfortable to wear and easy to use

AMIGO STAR COLORS



Amigo Accessories



Amigo eZync: Provides instant walk-by synchronization of students' receivers, freeing the teacher from individual synchronization.



Amigo WRP: Wireless Receiver Programmer. Advanced accessory for programming, fitting and synchronizing Amigo receivers.



Microphone options: Omni directional, directional or boom.

The Amigo family offers a wide range of accessories to fit the child's and teachers individual needs.

Accessory overview	Amigo Arc	T5	T30	T31	WRP
					
Power Supply					
Power supply					
2-unit power supply		✓			
6-unit power supply		Optional			
Mini USB power supply	✓		✓	✓	✓
Rechargeable/Alkaline battery	1x Li-ion	2xAAA	1xAA	1xAA	1xAA
Microphones					
Omni directional lapel		✓	✓	✓	
Directional lapel		Optional	Optional	Optional	
Boom		Optional	Optional	Optional	
Miscellaneous					
Audio cable 3.5 mm/ 3.5 mm	✓	Optional	✓	✓	
Audio cable 3.5 mm/dual RCA (Phono)	Optional	Optional	✓	✓	
Exchangeable skins/shells	✓	Optional	Optional	Optional	Optional
Headphones	Optional				
Monitoring earbuds			✓	✓	✓
Induction loop	✓				
Belt/pocket clip		✓	✓	✓	✓
Waist pouch		Optional	Optional	Optional	Optional
Color options	✓	✓	✓	✓	✓



ConnectLine



ConnectLine connects

Oticon ConnectLine opens the door to a world of communication possibilities. It gives children and teens the freedom to interact with friends in high noise environments using the ConnectLine Microphone. Meanwhile the new Streamer Pro offers the possibility to connect to a wide range of assistive technologies including teleloop and FM systems. A connection between mobile phone, computers, and MP3 is also available.

FM

Adding an Amigo universal R2 receiver to Streamer Pro provides optimized listening conditions in class, lectures and groups.

TV

ConnectLine TV streams the audio signal wirelessly from the TV directly to the user's hearing instruments.

Phone

With ConnectLine Phone, users can control and conduct landline phone calls.

Mobile

Streamer Pro transforms the user's hearing instruments into a virtually invisible wireless headset for their mobile phone.

Computer

Connect to a computer wirelessly via Bluetooth™ or by using the audio cable supplied. Enjoy audio from websites, Skype, FaceTime etc., streamed straight into the hearing instruments.

Music

Music can be streamed directly from music players either via Bluetooth™ or using the audio cable provided.

Microphone

A ConnectLine Microphone can be worn by the user's companion, providing a new means of achieving clear communication in challenging environments.

Telecoil

Enhance the experience of attending theatre events, lectures and religious services.

Remote control

Shift programs and adjust the volume in the hearing instruments via Streamer Pro.

ConnectLine App for iPhone®

Now children's phone calls, favorite music, video chats, podcasts, TV, live performances and presentations can be streamed into our hearing devices via the Streamer Pro. It can be controlled with their iPhone with our free ConnectLine App for iPhone.



ConnectLine

Streamer Pro

The Streamer Pro is the neck-worn gateway to the ConnectLine system. When hearing aids are linked to this accessory, practically any audio source can be transmitted to the hearing instruments using a wireless Bluetooth connection or a mini jack cable.



Streamer Pro with FM

An FM receiver attached to the Streamer Pro gives children and teens access to stylish hearing instruments that can enhance learning and reduce listening effort.



ConnectLine Microphone

ConnectLine Microphone is a discreet clip-on microphone that enhances speech understanding of a chosen speaker's voice in challenging sound environments.



ConnectLine TV

The ConnectLine TV adaptor helps users to hear TV programs clearly while leaving the TV volume at a level the whole family can enjoy. Support for digital stereo (PCM) and Dolby Digital®.*



ConnectLine Phone

The ConnectLine phone adaptor works with an existing landline phone, in effect turning hearing aids into a wireless headset. To answer the phone, just press a button on the Streamer Pro.

* Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

Genie Pediatric Fitting Mode



Genie

Pediatric Fitting Mode

The first time you do a pediatric fitting, a dialog box will provide an overview of the prescribed settings. During the fitting, an overview dialog of the current setting in the instrument is only one click away. Find the link in the Fitting Step - Control Screen.



Genie Pediatric Fitting Mode



1 The identifier

The updated Pediatric Fitting Mode has the 'Child Friendly Hearing Care' logo.



2 For all pediatric fittings

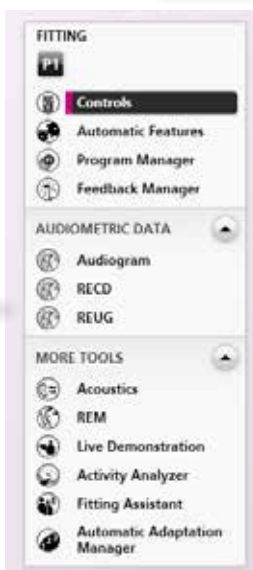
With the Pediatric Fitting Mode you can fit all children between the age of 0 and 16 years regardless of hearing instrument family.

All	LF	675	MF	1875	HF
Loud	11		21		22
Moderate	17		28		31
Soft	30		40		40

3 Flexible fitting adjustment

Flexible adjustment of gain and output limiting is ensured by unfolding the up to 10 fitting bands. The moderate input level can be adjusted independently for DSL and NAL prescriptive rationales.

All	250	500	750	1k	1.5k	2k	3k	4k	6k	8k
MPO	91	105	109	111	111	110	113	110	104	102
Loud	5	16	20	21	21	21	20	19	22	26
Moderate	12	22	27	29	29	29	29	28	32	35
Soft	26	33	37	41	41	41	40	40	40	40



4 Optimizing gain prescription

Tools for optimizing gain prescription based on individual ear acoustics like Feedback Manager, and tools for correcting Audiometric Data are easily accessible.

Genie Pediatric Fitting Mode & Unique Sensei Features



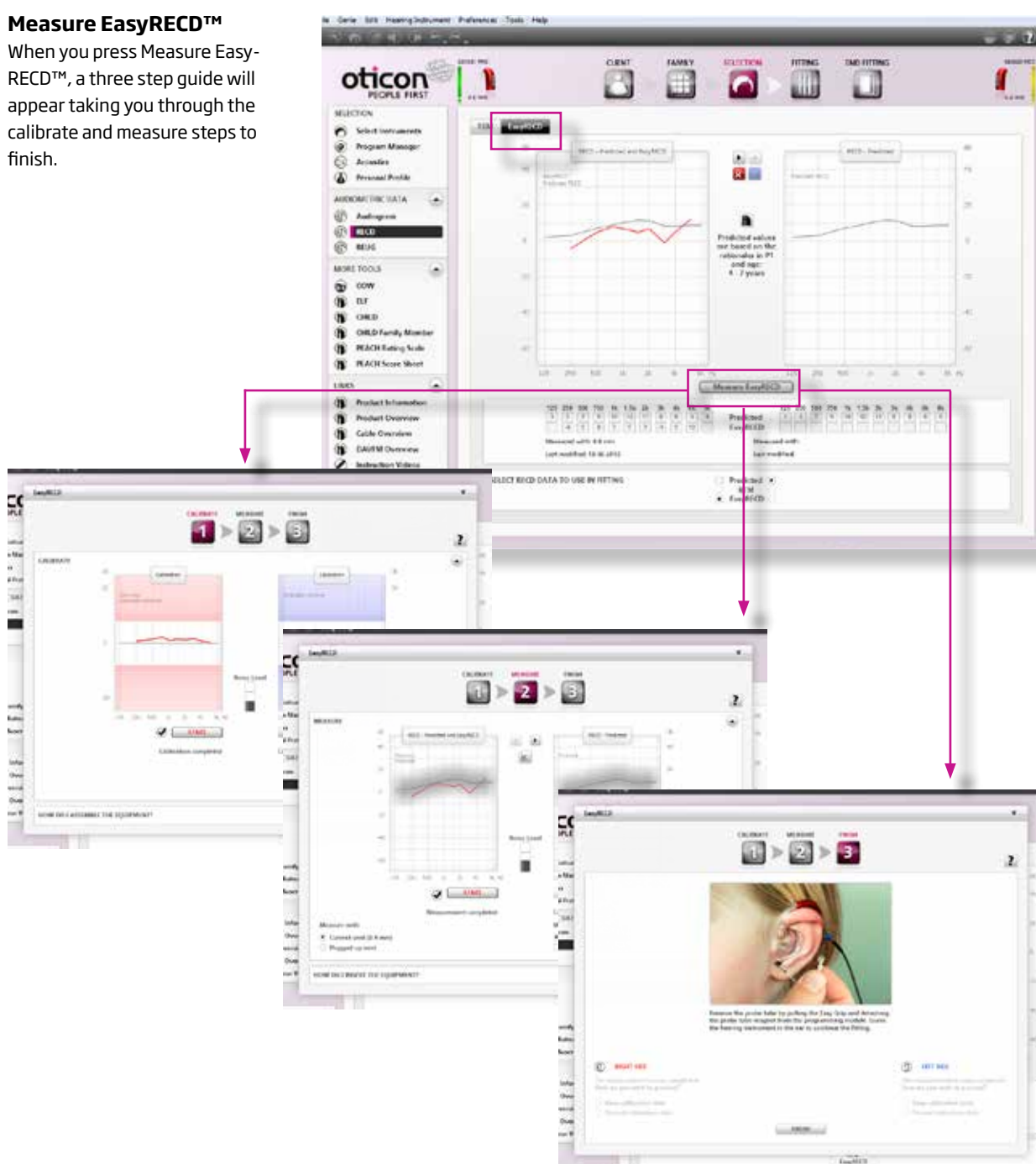
Genie

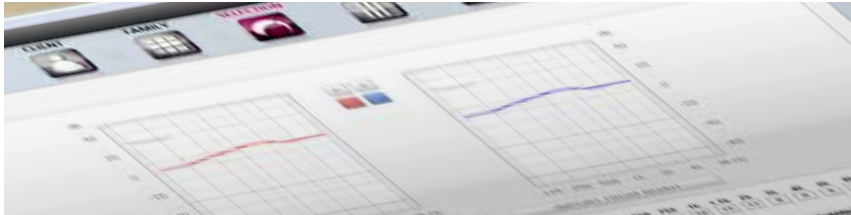
Sensei in Genie

Sensei introduces a range of features that have been created to meet the challenges children face during their development. By supporting individualized gain prescription and providing a tangible parent-oriented means of assessing earmold insertion, tools for ensuring proper amplification for young users are strengthened. For older children, flexible adjustment of FM features and settings support the desired FM solution for school.

Measure EasyRECD™

When you press Measure Easy-RECD™, a three step guide will appear taking you through the calibrate and measure steps to finish.





Genie Pediatric Fitting Mode & Connectivity

SmartFit™ Trainer

The new LED enabled Sensei feature, SmartFit™ Trainer, is selectable and can be demonstrated.



FM settings

The new Sensei feature VoicePriority i™ is selectable for ear level FM and FM through the Streamer Pro independently.



MORE TOOLS

- Phone and DAI/FM
- COW
- ELF
- CHILD
- CHILD Family Member
- PEACH Rating Scale
- PEACH Score Sheet

Pediatric validation tools

A range of pediatric validation tools are available in Pediatric Fitting Mode.

Pediatric eCaps Pro - an intuitive counseling tool



Extra-special care

Children with hearing loss deserve extra care - and eCaps Pro helps you provide it. This flexible, interactive toolbox helps you to build trust and loyalty by facilitating an engaging counseling process with children and parents. This can lead to a successful understanding of the child's individual needs.

Intuitive and easier

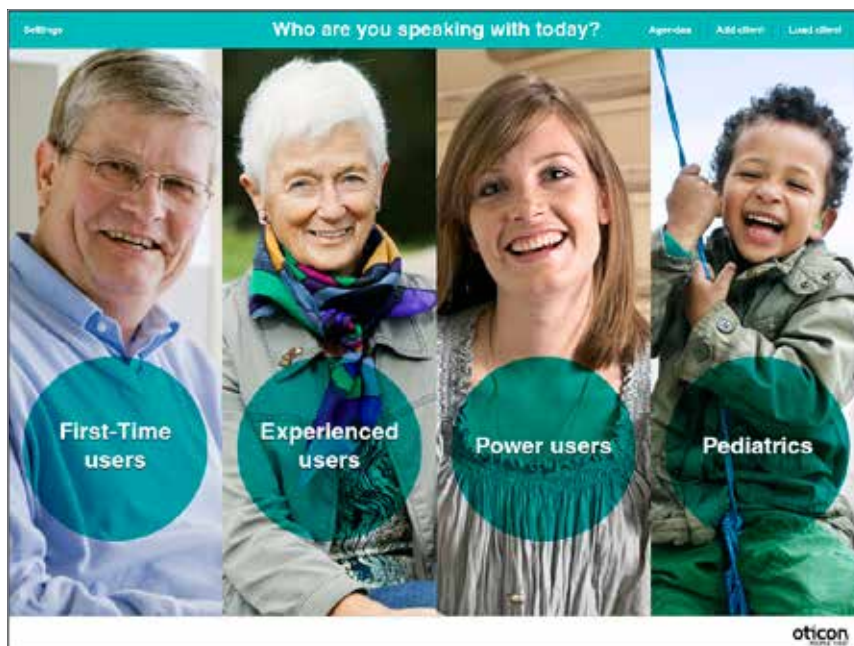
eCaps Pro's intuitive design helps you save precious time for care and counseling. Educational tools make complex information easier to understand, and dialog tools help you obtain valuable feedback - particularly from younger children - as a basis for individualization.

Engaging and Enlightening

Full of child-friendly, easy-to-explain tools - eCaps Pro engages and motivates children and parents to take responsibility for the hearing loss, and to understand how to work together to achieve the desired results.

Meeting individual needs

eCaps Pro accommodates the individual needs of four user groups: First-time users, Experienced users, Power users and Pediatrics. For the Pediatric user group, eCaps Pro allows you to support children primarily aged 4-12 and their parents.





Pediatric eCaps Pro - an intuitive counseling tool

A number of tools have been developed, examples of which you will find below:

- History
- Audiogram
- The Ear
- Hearing in Noise
- Hearing Aid Benefits
- Media Devices (ConnectLine)
- FM Benefits
- Instructional Videos
- Communication Strategies
- Daily Care
- My Role



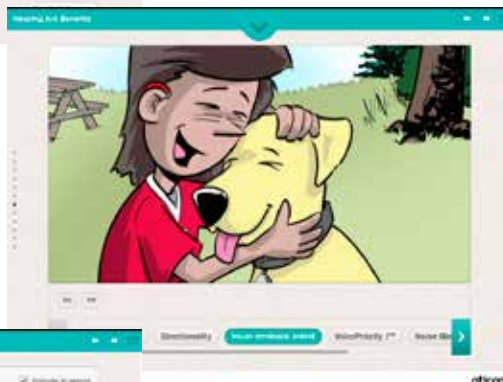
Tool for FM Benefits

This helps you to demonstrate the benefits of using FM in school as well as at home.



Tool for Hearing Aid Benefits

This helps you to demonstrate the main features and benefits of the new Sensei product family.



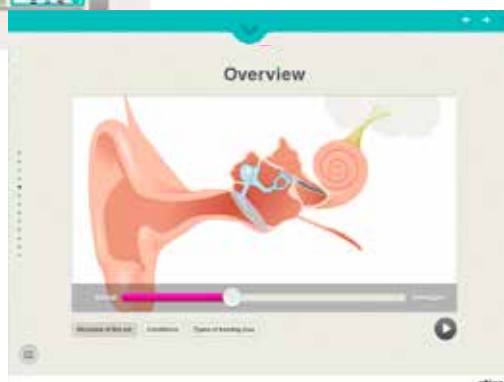
Tool for Communication Strategies

This provides valuable communication strategies that families can use in everyday life.



Tool for the Ear

A tool to explain the anatomy of the ear and different hearing conditions in a child-friendly way.



Carekit and educational materials



CareKit

Sensei's Pediatric CareKit contains a range of practical accessories for young hearing aid wearers. Included in the kit are:

- Oticon's cleaning and drying kit
- Battery tester
- Listening tube kit
- Quick troubleshoot guide
- Instructions for use

Tailor-made educational materials

Besides the Carekit, Oticon offers a wide range of pediatric materials - from guides and workbooks for parents and teachers to educational and activity booklets for children. Brochures, articles and booklets for teenagers and their caregivers have been created to make their journey towards adulthood - and the task of supporting teens on a daily basis - much easier.

Guides for caregivers

- Parents' guides
- Family Notebook
- Teacher's Guide
- All about FM
- Workbook for parents

Materials for children

- "Plugged In" comic strip book series
- Having Hearing Aids
- Children's Hearing Activities Sheet

Materials for teens

- Articles written by teens with hearing loss sharing their experiences
- Teen identity booklet "So you have a hearing loss.."
- Parent/teen article "Special Considerations for Parents of Teens"
- Teacher/Teen article "Tips for Teachers of Teens With Hearing Loss"





Reliability and robustness



Oticon is constantly striving to deliver the best and safest hearing solutions. To ensure top quality, safety, high performance and maximum durability, Oticon's products must not only comply with a number of international standards but also fulfill a range of strict internal tests and requirements.

Examples of Oticon's safety and durability program:

- Restricted the use of more than 200 toxic and potentially harmful materials from our products.
- Tested hearing devices in high humidity and under extreme temperatures (-40 F to +185 F) to simulate conditions in various climates.
- Tested push buttons by pushing them 25,000 times to ensure durability and long term performance.
- Submerged products in 3 feet of water for 30 minutes to ensure durability even when exposed to water.

Oticon has identified several areas within safety and reliability that we find especially important for children using hearing devices.

Skin contact all day - not a problem

Hearing instruments are in direct contact with the user's skin; thus Oticon must ensure that none of the materials selected will be harmful to the child. All materials are tested for biocompatibility according to requirements of international standards for substances with skin contact.

Oticon has banned a wide range of materials, not only to make our instruments safe to use but also to protect both our production environment and the external environment. Oticon has produced a 'restricted list' restricting the use of more than 200 substances. One of these is nickel - a material that can cause allergies - and phthalates, which have been found to have a hormone-like effect, some of which are considered to be reprotoxic.





IP57 classification

IP57 classification - high-level protection:

Oticon instruments are designed to strengthen children's ability to live an active life. In compliance with the IP57 rating* these instruments have built-in barriers which repel water, dust or debris that might interfere with normal operation.

Robustness:

Oticon products are subjected to a range of stringent quality tests to confirm their ability to support an active lifestyle throughout the lifespan of the product.

Quality tests include:

- Drop test: the hearing instrument is dropped several times from 5 ft. height.
- Durability test: where push buttons and volume wheels are pushed up to 25,000 times.
- Surface wear test: repeated contact is applied to product shell 2500 times
- Mechanical robustness test: battery doors are opened and closed up to 25,000 times

Focus on safety

When it comes to safety and children, no trade-offs are made. Safety in hearing instruments is relevant on various levels. For young children with inquisitive fingers a solution like tamper resistant battery doors minimizes the risk of shiny batteries being swallowed.

Moreover, our pediatric hearing instruments feature a unique, built-in, intelligent LED indicator that lets parents, teachers and other caregivers know with certainty that the hearing instrument's battery is functioning properly, ensuring that the child always receives sufficient hearing support.

*The IP Code (or Ingress Protection Rating) classifies and rates the degrees of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in mechanical casings and with electrical enclosures.



Sensei core features



Feature

Benefit

■ SPEECH GUARD E

Unique to Oticon, Speech Guard E combines two methods of amplification: non-linear and linear, in a single compression system – which helps deliver a full and natural sound experience.

SPEECH GUARD E

- helps deliver sound information needed to improve speech understanding.
- preserves the fine details of sound – from soft to loud – making sounds audible, comfortable and clear.
- increases the child's ability to complete complex auditory tasks.

■ INIUM FEEDBACK SHIELD

The Inium feedback shield combines three technologies; phase inversion, frequency shift, and feedback limit estimation, to prevent feedback without the entrainment artifacts found in other hearing devices.

INIUM FEEDBACK SHIELD

- minimizes feedback in a wide variety of situations.
- ensures good sound quality.
- improves the feedback management due to a better estimate of the feedback path.

■ SMARTFIT™ TRAINER

Unique to Oticon, SmartFit™ Trainer introduces a new dimension of care when showing parents how to insert earmolds. The Sensei LED indicates when the earmold is not in the correct position.

SMARTFIT™ TRAINER

- ensures correct earmold insertion – every day.
- confirms to parents that they inserting the earmold correctly.
- helps empower parents in the training of earmold insertion.

■ EASYRECD™

The Sensei EasyRECD™ tool is an easy and intuitive way to take children's ear acoustics into account for the fitting.

EASYRECD™

- bases gain prescription on individual ear acoustics.
- is an easy-to-use and fast RECD method for infants and children.
- corrects gain prescription to the child's individual ear acoustics using the exact device and earmold that the child will use.

■ VOICEPRIORITY *i*™

VoicePriority *i*™ is an advanced adaptive FM strategy. By adding extra gain to the FM signal when the classroom gets noisy, VoicePriority *i*™ prioritizes the FM signal. When noise levels return to normal, VoicePriority *i*™ quickly restores the balance of the FM and hearing aid microphone signals.

VOICEPRIORITY *i*™

- ensures audibility of the teacher's voice when classroom noise is excessive.
- ensures audibility of fellow students when the teacher is not speaking.
- facilitates attention shifting between different speakers when it is noisy.

■ CONNECTLINE

Oticon ConnectLine is the perfect companion for young tech-savvy users, providing seamless wireless connectivity for both educational purposes and entertainment.

CONNECTLINE

- provides high fidelity, audibility and intelligibility.
- improves communication over distance and in noisy environments.
- ensures FM access without adding to the size of the hearing device.
- enables watching TV with the rest of the family at the same volume setting.
- enables hands free phone conversations.

Detailed explanation

SPEECH GUARD E

Speech Guard E is an amplification strategy which encompasses the benefits of linear and non-linear (Wide Dynamic Range Compression, WDRC) systems, without the pitfalls of either. In stable acoustic environments, the system responds slowly and operates in a linear manner, which results in a clear, stable, and intact acoustic signal.

When the acoustic environment changes abruptly – due to shouting or if a door slams nearby – the gain adjusts swiftly. These gain adjustments keep sound within the residual dynamic range of the impaired ear, and prevent sounds from becoming uncomfortable. Speech Guard E helps make sounds as clear and distinct as possible. It provides a solid acoustic representation of the world upon which the auditory system can develop.

INIUM FEEDBACK SHIELD

The feedback shield uses three types of advanced signal processing to control and limit feedback when applying gain in hearing instruments: Phase inversion, frequency shifting and gain control. By combining the three processes, feedback can be controlled while maintaining optimal sound quality. Audible entrainment artefacts, that were a hallmark of first generation frequency shifting, no longer plague the system. The enhanced sound quality produced by all the other careful signal processing is not compromised.

SMARTFIT™ TRAINER

SmartFit™ Trainer is a measurement that evaluates the leakage of the sound out of the ear when you first turn on the hearing instrument. It will leave the LED on until the earmold is properly inserted in the ear. Proper insertion is determined by comparing the leakage measurement with style and audiogram-dependent reference values in the instrument. When the insertion is unsuccessful, the LED will blink rapidly. If nothing is done, the instrument will start-up in the general program. If desired, the SmartFit™ Trainer can be reset by turning the instrument off and back on. At home, the parents can use this to know that they are inserting the earmold correctly.

EASYRECD™

Best practice asserts that the ear acoustics of the individual ear should be taken into account. Taking into account the individual ear acoustics of the child provides a precise gain prescription. Since children's ears grow quickly, it is important to measure on a regular basis. The EasyRECD™ tool found in Oticon Sensei is an easy and fast way of prescribing gain based on individual ear acoustics. It comes with a dedicated programming shoe, magnetically attachable probe tube and an ear grip, all of which simplify the procedure. The equipment is supported by an EasyRECD™ tool found in Genie.

VOICE PRIORITY i™

FM compatibility is required when fitting hearing aids to students, as classroom listening conditions are far from optimal. Hearing impaired students are disadvantaged in poor SNRs compared to their normal hearing peers. Sometimes when the SNR is very poor even an FM system is not enough. This is when VoicePriority i™ is relevant. In an adaptive manner Voice Priority i™ automatically adds gain to the FM signal as the SNR decreases. This ensures intelligibility of the teacher's voice when noise around the student is excessive. However, the teacher is not always the primary speaker. Fellow students also make valuable contributions during class. When the teacher is not talking, the VoicePriority i™ quickly adapts to ensure audibility through the hearing aid microphone.

CONNECTLINE

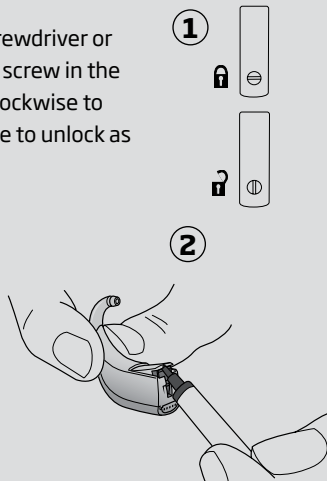
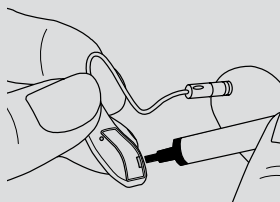
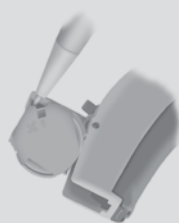
ConnectLine offers a direct connection to devices like phones, TV's or remote microphones. The child or teenager can adjust and listen as they like, directly to their ears through their hearing instruments. Streamer Pro selects the signal of interest with the fewest steps possible, making the process easy. Some listening conditions end up easier than for normal hearing listeners. Wireless listening systems have shown the largest improvements in speech in noise performance with improvements of over 20 dB.

CORE FEATURES AND AGE RELEVANCE

	Infant	Pre-school	School age	Teenager	
	0	3½	6	12	16
1	Speech Guard E				
2	Inium feedback shield				
3	SmartFit™ Trainer				
4	EasyRECD™				
5	VoicePriority i™				
6	ConnectLine				

Tamper-resistant Accessory Overview



Instruments*	Battery door instructions**	Program/Volume switch
Sensei BTE312, Sensei BTE 13, Sensei RITE 312, Safari SP	Insert the included screwdriver or similar device into the screw in the battery door. Turn it clockwise to lock and anti-clockwise to unlock as shown in the picture. Insert the included screwdriver into the slot by the battery door and push up. 	A multi- function toggle switch controls both volume and programs. Both functions can be disabled in the Genie fitting software.
Alta miniRITE	Insert the included Multi-tool into the slot by the battery door and push up. 	A multi-function button controls both volume and programs. Note: Volume control is only available in a bilateral fitting. Both functions can be disabled in the Genie fitting software.
Intiga	No tamper-resistant battery door is available.	Connect models have no volume control or program button. Both functions can be controlled through a multi-purpose button on the Streamer - this applies for Dual Connect models only.
Sumo DM	To remove the battery from a tamper-resistant battery door, first open the battery door. Insert the end of a ballpoint pen or similar object into the small recess in the corner. Push the battery with the ballpoint until it pops up. 	A marked program switch let's you choose between 3 programs. A VC wheel with markings controls the volume. Both functions can be disabled in the Genie fitting software.

*) Children aged 0-36 month should not be fit with RITE or Corda instruments. They contain detachable parts that may present a choking hazard.

**) Children aged 0-36 months must always have the tamper resistant battery door installed.

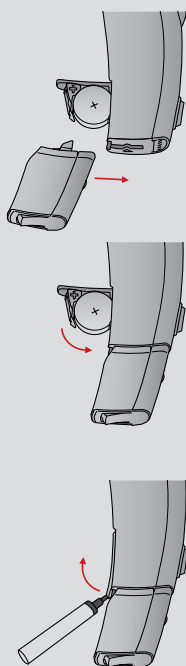


Sensei Practicalities

Attaching FM receivers

Sensei and Safari SP instruments can use dedicated or universal Amigo receivers (with FM9 adaptor). The dedicated Amigo R12 receiver is available in 13 colors to match Sensei instruments.

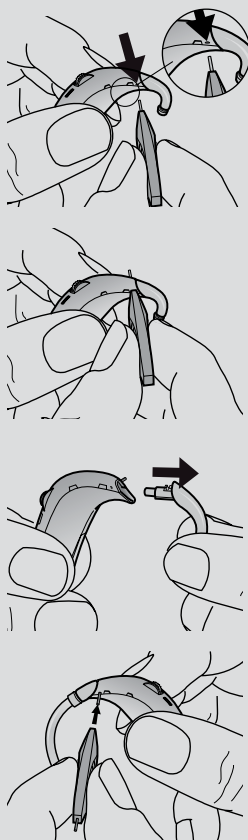
To attach either a dedicated receiver or FM9 adaptor, open the battery door, then slide the receiver (or adaptor) into the slot at the bottom of the instrument. To make it tamper-resistant, follow the specific battery door instructions.



Changing hooks

Each Sensei BTE and Safari SP instrument is shipped with a damped standard size hook (attached) as well as a damped pediatric earhook. (Safari SP also include undamped hooks). It's easy to change the earhook as shown below, using the tool supplied. Be careful not to push the retention pin completely out when removing the hook.

Be sure to hold the earhook firmly with one hand when removing the earmold tubing gently with the other hand.



Oticon Hearing Instruments and DAI/FM Overview

 Hearing Instruments BTE Styles	DAI Adaptor		FM Adaptor	FM receiver	Modes of operation
	Low Level Input Bodyworn FM solutions e.g. Amigo R5	High Level Input TV, stereo, MP3 player, CD player, Computer	Adaptor for Amigo receivers and other ear-level receivers	Universal and dedicated Amigo receivers	Default modes of operation when using DAI adaptors and FM receivers
 Oticon Sensei family Oticon Safari family Oticon Alta family Oticon Nera family Oticon Ria family Oticon Agil family Oticon Chili family Oticon Ino family Oticon Get family* (All BTE styles except miniRITE)	 AP 900 399-50-520-08 Grey	FM 9 399-50-590-00 Transparent 	Amigo R2* Silver 	Automatically adds 2 programs to the hearing instrument**: - DAI/FM + HA (default) - DAI/FM only Amigo R2 switch positions: ○ or ○○ = HA + FM receiver ● = HA only/FM off	
			Amigo R12 13 colors 		
			Amigo Arc 5 colors 	Via telecoil	
			Streamer Pro white 120178 Streamer Pro black 120179 	Amigo R2 Silver 	Amigo R2 switch positions: ○ or ○○ = HA + FM receiver ● = HA only/FM off
		*Streamer Pro is not compatible with Oticon Get family			

* On 312 battery style, the LED on Amigo R2 must be set to blink.

** If only one program is active: DAI/FM + HA (default) or DAI/FM only - No program beeps available.

*** Other configurations are possible using Genie.

Pediatric Instrument Overview

	Sensei Pro BTE 13	Sensei BTE 13	Sensei Pro BTE 312	Sensei BTE 312	Sensei Pro RITE	Sensei RITE	Safari SP 900 BTE	Safari SP 600 BTE	Safari SP 300 BTE	Sumo DM BTE	Alta Pro miniBTE	Alta miniBTE	Alta Pro miniRITE	Alta miniRITE	Intiga 10	Intiga 8	Intiga 6
MPO/Gain Ear Simulator	135/68	135/68	126/61	126/61	132/66 127/65 115/46	132/66 127/65 115/46	143/82	143/82	143/82	144/85	131/62	131/62	132/66 127/65 115/46	132/66 127/65 115/46	119/58	119/58	119/58
Fitting formulas	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC	DSL, NAL, VAC
Speech Guard E	•		•		•						•	•	•	•	•		
Speech Guard							•	•							•		
Spatial Sound							•				•		•				
YouMatic											•	•	•	•			
SmartFit™ Trainer	•		•														
EasyRECD™	•		•		•												
Voice Priority i™	•	•	•	•	•	•											
LED status indicator	•	•	•	•	•	•	•	•	•	•							
Inium feedback shield	•	•	•	•	•	•					•	•	•	•			
DFC2							•	•	•						•	•	•
Dynamic Feedback Cancellation										•							
Binaural Processing (compression)							•				•		•		•		
Bin Synchronization (automatics)	•		•		•						•	•	•	•	•	•	
Bin Coordination (PB)	•	•	•	•	•	•	•	•	•		•	•	•	•			
Bin Coordination (VC)	•	•	•	•	•	•					•	•	•	•			
Binaural Noise Management							•				•		•		•		
Noise Management	TriState	TriState	TriState	TriState	TriState	TriState	TriState	Modulation	Modulation	TriState	TriState	TriState	TriState	TriState	TriState	TriState	Modulation
Adaptive Directionality	Multi band	Single band	Multi band	Single band	Multi band	Single band	Multi band	Multi band	Single band		Multi band	Multi band	Multi band	Multi band	Multi band	Multi band	Single band
Free Focus											•	•	•	•			
Artificial Intelligence											Premium	Premium	Premium	Premium	Premium	Advanced	Essential
Identities										4					5	3	3
Fitting bandwidth	10 kHz	10 kHz	10 kHz	10 kHz	10 kHz	10 kHz	6.5 kHz	6.5 kHz	6.5 kHz	5 kHz	10 kHz	10 kHz	10 kHz	10 kHz	10 kHz	8 kHz	8 kHz
Fitting bands	10	8	10	8	10	8	9	8	6	8	10	10	10	10	10	8	6
Power Bass	•		•		•		•				•	•	•	•	•		
Music Widening	•		•		•		•				•	•	•	•	•		
Soft, moderate, loud gain ajustment	•	•	•	•	•	•					•	•	•	•	•	•	•
Learning											•	•	•	•	•	•	•
Frequency channels	16	16	16	16	16	16	16	16	16	8	16	16	16	16	16	16	16
Program control	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Streamer	Streamer	Streamer
Volume control	•	•	•	•	•	•	•	•	•	•	Streamer	Streamer	Streamer	Streamer	Streamer	Streamer	Streamer
Tamper resistant battery door	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Telecoil	•	•	•	•	•	•	•	•	•	•							
AutoPhone	•	•	•	•	•	•	•	•	•		•	•	•	•			
ConnectLine compatible	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
FM compatible	•	•	•	•	•	•	•	•	•	•	Streamer	Streamer	Streamer	Streamer	Streamer	Streamer	Streamer
FM compatibility filter	•	•	•	•	•	•											
FM Super Silencer	•	•	•	•	•	•											
Pediatric Fitting Mode	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Colors	11	11	11	11	11	11	12	12	12	15	7	7	7	7	10	10	10
Battery size	13	13	312	312	312	312	13	13	13	675	312	312	312	312	10	10	10
Battery life	240	240	130	130	120	120	186	186	186	290	130	130	130	130	80-100	80-100	80-100

• Dedicated pediatric instruments

- Children aged 0-36 month should not be fit with RITE or Corda instruments. They contain detachable parts that may present a choking hazard.
- Children aged 0-36 months must always have the tamper resistant battery door installed.

 Oticon Sumo family	AP 700 399-50-900-08 Grey  Input levels are set manually			Hearing instrument positions***: 1 = HA only - M 2 = HA + FM - MT 3 = FM only - T
		FM 7 399-50-920-02 Grey 	Amigo R2 Silver 	Amigo R7 switch positions: ○ = FM ON ● = FM OFF
			Amigo R7 Silver 	Amigo R2 switch positions: ○ or ○○ = HA + FM receiver ● = HA only/FM off
		Amigo Arc 5 colors 		Via telecoil
 CI processors from various manufacturers				See Amigo CI compatibility guides www.oticonusa.com/amigo
		Amigo R2 Silver 		
		Amigo Arc 5 colors 		Via telecoil

* On 312 battery style, the LED on Amigo R2 must be set to blink.
 ** If only one program is active: DAI/FM + HA (default) or DAI/FM only - No program beeps available.
 *** Other configurations are possible using Genie.

People First

People First is our promise
to empower people
to communicate freely,
interact naturally and
participate actively

child
friendly
hearing
care

Our pediatric audiological mission is to ensure
a better future for every child with hearing loss.
We will deliver solutions, tools and techniques that
optimise auditory and cognitive habilitation, embrace
the complexities of growing up with hearing loss,
and empower you to adapt solutions to each child's
developmental stage on their journey to adulthood.

