

## OTICON | Intent Product Guide 2024

Introducing Oticon Intent<sup>™</sup> featuring the world's first user-intent sensors. Capturing listening intentions with groundbreaking 4D Sensor technology



# Introducing the Sirius<sup>™</sup> platform

## Powering the new 4D user-intent sensors

Sirius is a cutting-edge platform that's purpose-built for hearing aids. Its high processing capacity gives people the full, open sound scene, while powering our groundbreaking innovation: 4D user-intent sensor technology. For this, an embedded motion sensor detects the wearer's head and body movements, and several acoustic sensors detect sound level, signal-to-noise ratio, and conversation activity. These enable Oticon Intent to combine the different inputs necessary to seamlessly adapt the support it gives the user.

Sirius includes our new second-generation Deep Neural Network 2.0 (DNN 2.0). DNN 2.0 is trained using real-world sound samples with even greater diversity than for the first DNN. This ensures advanced preservation of the original sound, better noise suppression, and more clarity. With Bluetooth® LE Audio, Sirius has modern, future-proof connectivity technology. It incorporates a standard audio codec for streaming data and sound to and from a variety of devices with greater power efficiency.

Sirius supports the new self-calibrating miniFit Detect speaker units, which give increased convenience and assurance that patients experience precise gain every day. What's more, it enables even lower frequencies, with a bandwidth from 80 Hz to 10,000 Hz, giving a fuller sound scene with a richer representation of the environment. Signal processing is performed in 24 frequency channels, giving precise processing of sound and personalized fine-tuning of gain.

The Sirius platform is future-ready, meaning Oticon Intent hearing aids can be wirelessly updated with our latest improvements.

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## TELL YOUR PATIENT

Oticon uses a powerful minicomputer that's designed purely for hearing aids, unlike many other hearing aid brands.

# 4D user-intent sensors

## A groundbreaking technology that captures listening intentions

Oticon Intent features the world's first user-intent sensors – a unique new technology that allows the hearing aid to recognize when the user's listening needs change and adapt accordingly.

Building on insights from research on human communication behavior, Oticon Intent combines four different types of sensor input to understand and act on the user's listening needs: conversation activity, head movement, body movement, and acoustic environment.

## **Conversation activity**

Monitoring if there is an active conversation or not, informing the system to prioritize speech.

## **Head movement**

Following how the user moves their head helps to understand the type of communication situation.

## **Body movement**

Detecting physical movement helps anticipate the need for increased spatial awareness support.

#### **Acoustic environment**

Sensors gather details of the 360° sound scene around the listener as it varies within listening environments and between environments.

## Enables adaptive support that spans 5 dB output SNR

Based on the four sensor input types, Oticon Intent seamlessly adapts to the user's listening intention. It can increasingly prioritize speech clarity or surrounding sounds as the user intention requires increased emphasis. Users will experience adaptation of support spanning 5 dB output SNR even within a single environment. This helps users engage in conversation in all the sound environments where real life unfolds.





TELL YOUR PATIENT

The sensors understand your intentions, so Oticon Intent can prioritize the sounds you need.



# MoreSound Intelligence<sup>™</sup> 3.0



Provides the full sound environment in high clarity and balance

With input from the 4D user-intent sensors, MoreSound Intelligence 3.0 seamlessly adapts to the user's specific listening needs. This means Oticon Intent can provide individualized help based on the situation and the user's intention, for significantly improved speech comprehension.

## How the sound processing works

Wind & Handling Stabilizer detects and filters wind and handling noises 500 times per second. It selects the microphone with the cleanest sound input, preventing disruptive sound from entering the system. It then attenuates remaining wind and handling noises from the other microphone efficiently and only in the frequencies affected by the noise. This provides a cleaner sound for further processing in MSI 3.0, helping hearing aid users go about their day in comfort.

The 4D Sensor technology paradigm scans and analyzes the sounds in the environment and the listener's movements. The results of the analysis provide input on sound levels, signal-to-noise ratio (SNR), head movement, body movement, and conversation activity for the remaining part of the processing in MSI 3.0.

Depending on the environment, MSI 3.0 uses an appropriate processing pathway:

- In easy environments, Virtual Outer Ear recreates natural pinna cues to ensure a natural-sounding listening experience, including spatial cues.
- In difficult environments, the Intent-based Spatial Balancer seamlessly adapts the balancing of distinct sound sources based on the needs of the user in a specific situation.

The **new DNN 2.0** is trained to ensure an even clearer sound environment with a more natural representation of all sounds for both easy and difficult environments. When needed for individual listeners, the contrast is even better, with the option of the 12 dB noise suppression setting in Oticon Genie 2 for difficult environments.

Sound Enhancer dynamically adds sound details in difficult environments, mainly in the frequency regions important for speech.

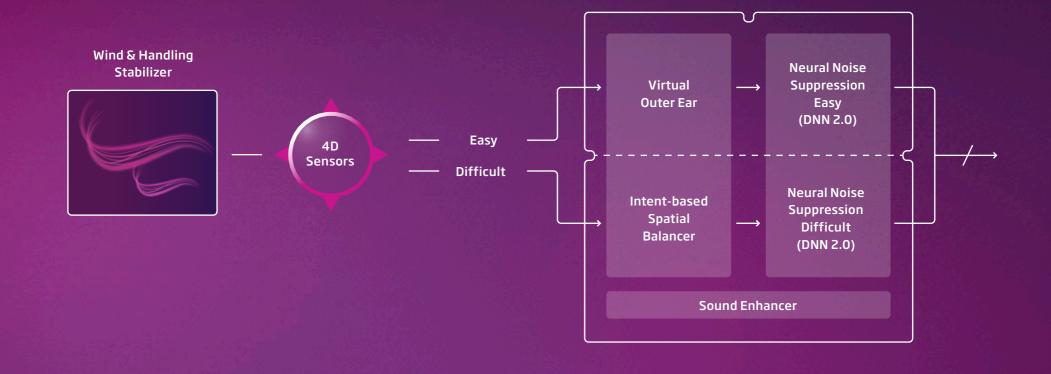
The overall outcome of this new sound processing architecture for MoreSound Intelligence 3.0 is better support for the brain, helping the user engage in all the situations of life.

For more information on MSI 3.0, see Brændgaard/Zapata-Rodríguez et al. (2024). 4D Sensor technology and Deep Neural Network 2.0 in Oticon Intent<sup>™</sup>. Technical review and evaluation. Oticon whitepaper.



## **TELL YOUR PATIENT**

The sensors know what environment you are in, and what you are trying to do, so Oticon Intent can always give your brain as much sound as possible without overloading it.



## MoreSound Intelligence 3.0 in Oticon Genie 2

## Easier fitting with a new interactive counseling tool

The MoreSound Intelligence 3.0 screen in Oticon Genie 2 has been developed as a counseling tool for use together with patients, so you can optimize help-in-noise system settings together with them, and ensure a clear and balanced sound scene in all environments.

MoreSound Intelligence 3.0 optimizes ease of use and simplicity, without compromising the need for extensive customization options and fitting handles. The initial settings of the handles in MSI 3.0 are based on the personalization done using either Audible Contrast Threshold (ACT<sup>™</sup>) or the questionnaire. Adjustments of the handles must be done based on a dialog and feedback from the user.

## **1. Environment Classifier**

Use the Environment Classifier tool to specify which hearing situations the user finds easy or difficult. The way sound is handled will differ substantially between the Easy and Difficult categories.

## 2. Neural Noise Suppression - Easy

Ambient noise suppression in easy environments provided by the DNN 2.0. Creates clearer contrasts in sound between the background and the foreground around the user where less help from the hearing aid is needed.

## **3. Neural Noise Suppression - Difficult**

Ambient noise suppression in difficult environments provided by the DNN 2.0. Creates clearer contrasts in sound between the background and the foreground around the user where more help from the hearing aid is needed.

## 4. Virtual Outer Ear

Applies to easy environments.

Three true-to-life and very accurate pinna simulations provide the option of more or less frontal focus or awareness of all sounds around the user.

## 5. Sound Enhancer

Applies to difficult environments.

Provides dynamic sound detail based on user preference when noise suppression is active. Added detail is mainly provided in the 1-4 kHz area, primarily enhancing speech sounds.

## 6. Sensor technology

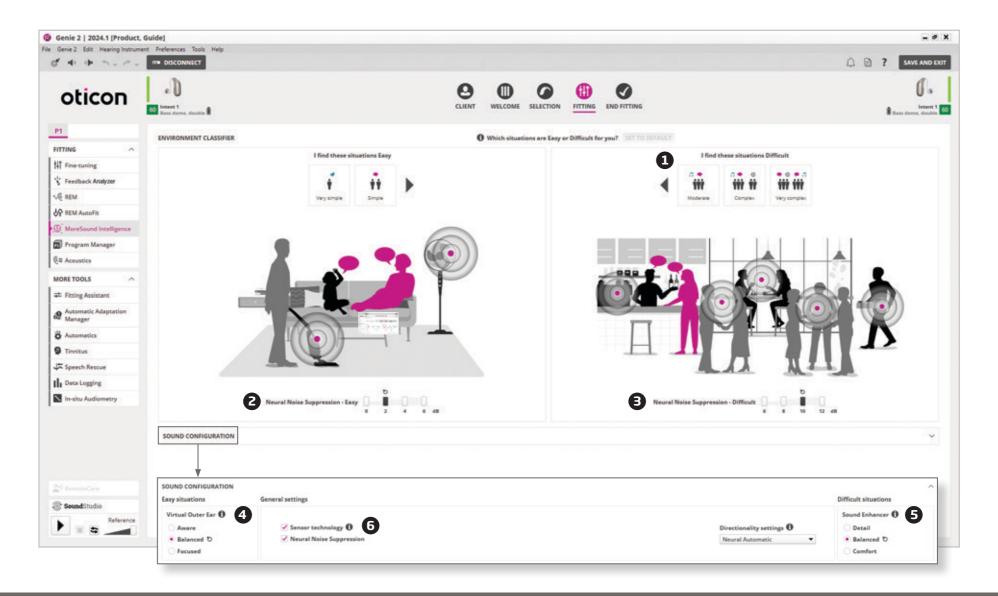
On/off handle for the motion sensors used in 4D Sensor technology. By turning the feature off, the user's head and body movement will not be used in the sound processing in MoreSound Intelligence 3.0.

You can find the on/off handle for Wind & Handling Stabilizer under Automatics.



## TELL YOUR PATIENT

Oticon Intent helps us work together to get the settings just right for your hearing and your lifestyle needs.



## **Deep Neural Network 2.0**

## Enables better and more accurate representation of sound in the brain

Oticon Intent has a second-generation Deep Neural Network (DNN) that mimics the way the brain functions, enabling Oticon Intent to handle the sounds of the world precisely and automatically.

The DNN 2.0 is embedded on the Sirius chip, so that all the incoming sounds in the sound scenes around the user can be processed incredibly fast – processing 500 inputs each second. This intelligent feature outperforms man-made algorithms, optimizing the way Oticon Intent makes sounds more distinct, and working seamlessly across varying listening environments.

## Learning like the human brain

After a DNN has been trained and has learned how to process sound scenes, it can use this knowledge to process any sound scene presented to it. With this integrated intelligence, Oticon Intent has learned to recognize all types of sounds, their details, and how they should ideally sound – all in order to optimally support the brain.

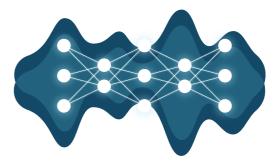
## Improvements over the first generation

The new DNN 2.0 builds upon the knowledge and insights from our first-generation DNN. From training with a greater diversity of sound samples, the DNN 2.0 has learned better strategies for real-world complex environments and acquired an improved ability to find and preserve soft speech components. By adding higher demands on the performance of the DNN 2.0 in the training phase and running the performance analysis in 256 channels, the output of the DNN 2.0 is more precise than its predecessor.

## Training with real-life sound scenes

The sound scenes used for the training of the DNN 2.0 were real-life sound scenes recorded using a spherical microphone. This has 32 advanced, individual microphones that are evenly distributed across the sphere, making it possible to record sound scenes with spatial detail and accuracy.

The sound scenes were fed into the DNN 2.0, whose output was then compared to a known target, indicating if the processing was good or bad. Based on this feedback, the processing was adjusted until the optimal target was reached. It is important that a DNN is trained sufficiently for the given task - it should not be either under or overtrained. If it is undertrained, it will not have enough knowledge to handle all sound scenes and will therefore make many errors. If it is overtrained, it will be too specialized to handle real-life sound scenes different from those used in the training. To make sure the DNN 2.0 is trained to the right level, it has been trained in the development phase, and has completed its training when the hearing aid is worn by the user.



For more information on DNN, see Brændgaard (2020). MoreSound Intelligence. Oticon Tech Paper.

## TELL YOUR PATIENT

The Deep Neural Network understands how sounds should sound, so you hear them more clearly and with sharper contrast to other sounds.

## MoreSound Amplifier<sup>™</sup> 3.0

## Provides more sound and more headroom

The new MoreSound Amplifier 3.0 gives users precise and balanced amplification over a frequency range spanning from 80 Hz and all the way up to 10,000 Hz. This expansion into even lower frequencies provides a fuller sound scene with a richer representation of the environment.

With cleaner and clearer sound input from MoreSound Intelligence 3.0, MoreSound Amplifier 3.0 has a unique starting point for amplifying the whole range of sounds according to the needs of each person with hearing loss. This ensures it can provide all meaningful sounds in the full frequency range for all available fitting rationales.

In addition, MoreSound Amplifier 3.0 benefits from the introduction of the new miniFit Detect speaker units, which offer an automatic self-calibration for gain and more headroom.\*

## A dynamic and balanced amplification system

With a high resolution and an adaptive speed pilot, MoreSound Amplifier 3.0 seamlessly adapts its resolution and speed to the nature of the prevailing sound scene, making the full sound scene audible while maintaining the fine contrast and balance between sounds. Sounds are constantly processed through two different paths: a 4-channel path and a 24-channel path. The system constantly identifies which type of information is present and what resolution (which path) should be prioritized when amplifying. This constant prioritization of processing paths depending on the incoming signal ensures the brain has access to the important information it needs to make sense of sound.

#### Instant and precise balancing of sudden sounds

Disruptive soft and loud sounds like clicking keyboards and slamming doors are everywhere, so SuddenSound Stabilizer as part of MoreSound Amplifier 3.0 quickly and precisely detects when they occur, provides the appropriate gain reduction, and then immediately releases the gain when the sound ends. What's more, SuddenSound Stabilizer can handle more than 500,000 sudden sounds daily. Presenting sudden sounds to users in a more balanced way reduces the effort they need to remain engaged in a situation.

\* Applicable for miniFIT Detect 60 and 100



## TELL YOUR PATIENT

The amplification system gives you all the details in excellent sound quality without letting sudden sounds disturb and overwhelm you.

# MoreSound Optimizer<sup>™</sup>

## Maximizes listening comfort and prevents feedback

MoreSound Optimizer detects and prevents feedback proactively before it even occurs - without sacrificing sound due to annoying and detrimental gain reductions. MoreSound Optimizer's ultra-fast detection engages proactive modulation to instantly stabilize the system when a feedback risk emerges. This unique and patented Spectro Temporal Modulation technology creates a breaker signal that stops audible feedback before it happens.

## Avoids gain reduction whenever possible

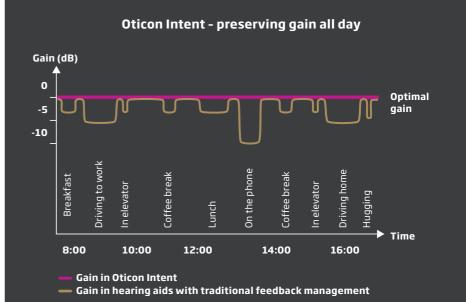
Thanks to MoreSound Optimizer and the applied phase inversion and frequency shift in Feedback shield, gain control is minimally used. It is instrumental in preventing invisible gain drops and providing optimal gain all day. This means improved access to speech details with more natural sound, increased comfort, and improved speech understanding\* – even in the most dynamic environments with physical barriers or activity around the head or neck region of the user.

## Feedback shield reduces gain when absolutely necessary

If a feedback risk persists, Feedback shield supports MoreSound Optimizer's ultra-fast reaction and preventive abilities using gain control. The modulation ensures that Feedback shield can adapt and stabilize. As Feedback shield engages, MoreSound Optimizer's modulation is gradually tapered off. Feedback shield operates in two separate paths – one for each microphone – making it possible to only reduce gain when absolutely needed.

## An effective combination of complementary technologies

Working together, the two technologies Feedback shield and MoreSound Optimizer combine the strengths of rapid, proactive feedback elimination with a stable, adaptive system to avoid false detections and activation of Feedback shield's gain control. The effectiveness of this pairing allows you to add more gain to reach the target, giving you greater flexibility in the fitting process.



\* Juul Jensen (2019). Oticon Opn S Clinical Evidence. Oticon whitepaper.



## TELL YOUR PATIENT

These features ensure your hearing aids won't whistle or howl when you hug someone or when something comes close to your hearing aids.

# Spatial Sound<sup>™</sup>

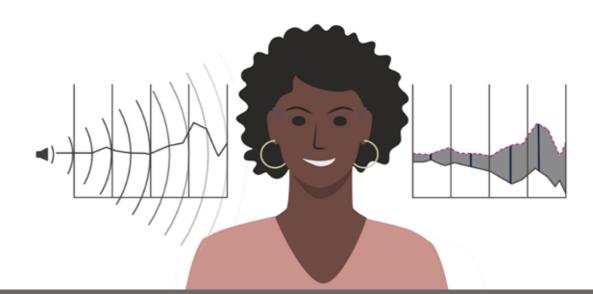


Enhances natural sound location and spatial awareness Spatial Sound combines several advanced technologies to provide more precise spatial awareness, helping users identify where sound is coming from.

It uses **NFMI** (Near-Field Magnetic Induction) for fast and energy-efficient binaural communication that preserves interaural level differences and maintains the sense of location and direction naturally provided by the head shadow effect.

By operating in four frequency bands, Spatial Sound prevents low frequencies from masking higher frequencies. This ensures interaural differences are preserved over the entire frequency spectrum.

Better-Ear Priority works with Spatial Sound and emphasizes sounds to the better ear in asymmetrical noise situations.





**TELL YOUR PATIENT** 

Helps you naturally perceive the location, distance, and direction of sounds with greater ease.

# Speech Rescue<sup>™</sup>



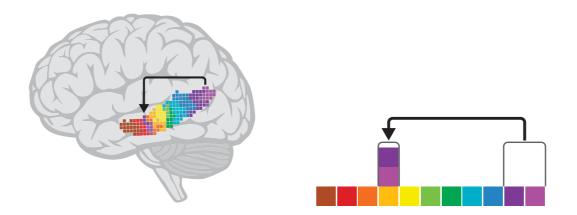
#### Makes high-frequency sounds audible again

The Oticon methodology of frequency lowering - called frequency composition – increases speech understanding by **'rescuing' speech cues** such as /s/ or /sh/ that might otherwise be lost.

This gives people with moderate to severe-to-profound hearing loss in high frequencies access to inaudible high-frequency sounds.

Inaudible high-frequency sounds are placed on the edge of the maximum audible output frequency (MAOF) while ensuring the low frequencies are preserved, so that vowel information and sound quality are maintained.

Speech Rescue is made more effective by the precise ability of MoreSound Intelligence 3.0 to improve the signal-to-noise ratio. MoreSound Intelligence 3.0 suppresses high-frequency noise, giving a clean high-frequency speech signal. It also ensures medium frequencies are cleaned of noise, improving the clarity of the speech cues that are copied to the MAOF.





**TELL YOUR PATIENT** 

Helps you hear more high-pitched speech sounds like /s/ and /sh/, improving your understanding of speech and helping conversations flow.

## Soft Speech Booster

## Increases access to lost sounds of speech

Soft Speech Booster makes soft sounds audible to people with hearing loss. By increasing access to the soft sounds that occur in most situations and conversations, this improves speech understanding.

The proprietary fitting rationale of Oticon, VAC+, uses multiple knee points to provide a clear focus on soft-to-moderate speech information, while preserving comfortable perception of louder sounds.

Soft Speech Booster can be personalized using Audible Contrast Threshold (ACT) or questions and sound files in Oticon Genie 2, ensuring you can fit them to each user's unique perception of soft sound for the best possible balance between details and comfort.





**TELL YOUR PATIENT** 

Helps you hear the soft sounds of normal speech, which improves your understanding without having to turn up the volume.

# **Clear Dynamics**

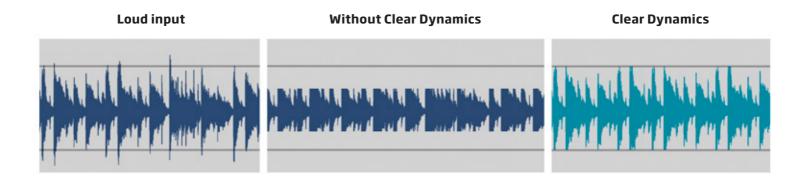


## Improves sound quality in loud environments

Clear Dynamics processes input sounds up to 113 dB SPL, avoiding distortion and artifacts at loud input levels while keeping the sound quality of softer input levels intact.

With speech cues preserved at high input levels, users can enjoy a better listening experience in loud environments, without distortion.

Clear Dynamics is especially valuable when listening to music or during conversations in busy, dynamic environments, where peaks can often be louder than the available input dynamic range of other hearing aid technologies.





**TELL YOUR PATIENT** 

Helps improve the sound quality when you are enjoying music or having conversations in noisy environments.

# Tinnitus SoundSupport<sup>™</sup>



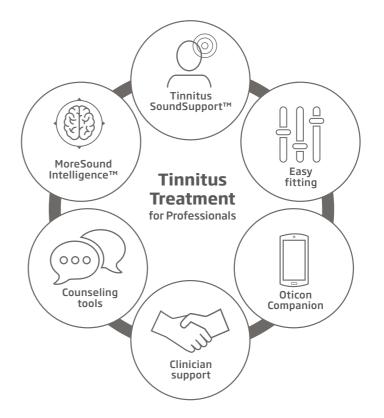
## Generates a variety of customized relief sounds

Tinnitus SoundSupport offers a wide range of sound options for fully personalized treatment, while making fitting as simple and quick as possible.

The sound options include four broadband sounds: shaped to audiogram, white, pink, and red noise; while three ocean-like nature sounds show great promise in helping patients who need more dynamic and soothing sounds.\*

You can also apply four modulation options to any of the broadband sounds to create a wider variety of relief sounds.

Patients can adjust the volume level of relief sounds directly on their hearing aid or via the Oticon Companion app, giving easy and discreet handling and adjustment of relief sounds.



\* Benefits may vary depending on the individual



**TELL YOUR PATIENT** 

Tinnitus SoundSupport gives you powerful tinnitus relief by affecting your perception of your tinnitus in a positive way.

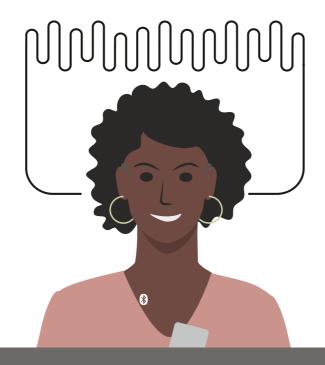
## TwinLink<sup>™</sup>

## Connects via NFMI and Bluetooth® Low Energy

TwinLink technology supports seamless, energy-efficient communication between two hearing aids and direct connectivity with external electronic devices and accessories.

Near-Field Magnetic Induction (NFMI) enables a continuous exchange of data and audio between two hearing aids to provide advanced binaural processing with minimal power consumption. Bluetooth<sup>®</sup> Low Energy technology connects to smartphones and other digital devices for advanced wireless connectivity.

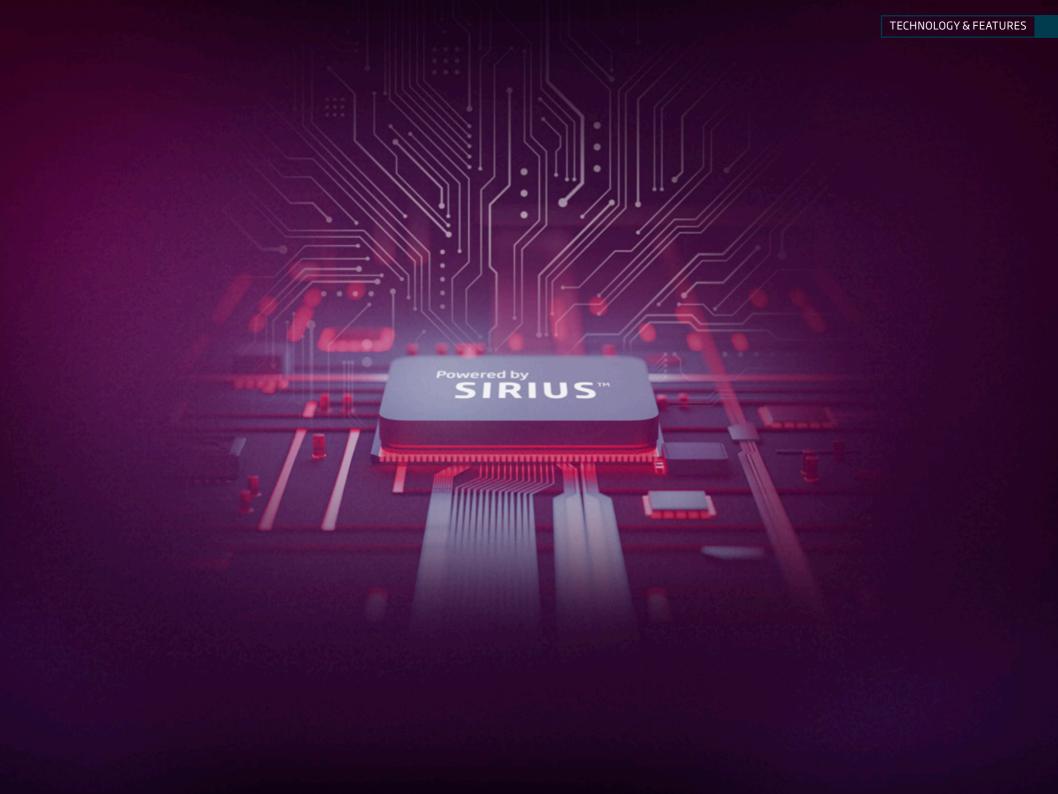
TwinLink also enables wireless fitting and firmware updates.





## **TELL YOUR PATIENT**

Hearing aids need to communicate with each other and connect with external devices. TwinLink enables this with minimal battery power consumption.



# Feature overview

4D Sensor technology	Senses the user's head and body movements, conversation activity, and acoustic environment to recognize the user's listening intentions.	Page 3
Better-Ear Priority	Optimizes listening in asymmetrical, noisy situations.	Page 11
Clear Dynamics	Expands the dynamic input range, processing sounds up to 113 dB SPL, to preserve sound quality even at loud input levels.	Page 14
MoreSound Amplifier 3.0	Sound processing occurs in an adaptive path setup that gives priority to resolution or speed, based on the current sound scene. Including SuddenSound Stabilizer that provides instant and balanced amplification of both soft and loud sudden sounds.	Page 9
MoreSound Intelligence 3.0	Prevents wind and handling noise from entering the processing in the hearing aid for more comfort and better access to speech. Uses 4D Sensor technology to create a clearer and more distinct contrast between sounds, precisely organizing the spatial sound scene, and intelligently suppressing unwanted noise through the second-generation Deep Neural Network 2.0.	Page 4
MoreSound Optimizer	Improves listening performance and comfort with ultra-fast proactive feedback detection and prevention. Enables optimal gain all day.	Page 10

Soft Speech Booster	Applies an individual amount of soft gain to increase soft speech understanding.	Page 13
Sound Enhancer	Dynamically provides gain primarily for speech sounds in difficult environments, based on user preference.	Page 6
Spatial Sound	Preserves interaural level differences to provide precise spatial awareness that helps users identify where sounds are coming from.	Page 11
SpeechBooster	Provides additional help in moderately complex environments when needed by the user. Must be activated in the Oticon Companion app.	Page 28
Speech Rescue	Makes high-frequency speech sounds like /s/ and /sh/ more audible using frequency composition.	Page 12
Tinnitus SoundSupport	Provides a variety of relief sounds, including soothing ocean sounds, to meet the individual needs of people with tinnitus.	Page 15
TwinLink	Combines two distinct radio technologies in an innovative wireless communication system. Features one technology to support seamless, energy-efficient binaural communication between two hearing aids (NFMI) and one to support communication with external electronic and digital devices (2.4 GHz).	Page 16
Virtual Outer Ear	Provides a true-to-life ear pinna simulation with three different settings for user preference.	Page 6



		Intent 1	Intent 2	Intent 3	Intent 4
	MoreSound Intelligence™ 3.0	Level 1	Level 2	Level 3	Level 4
Speech	Sensor technology	$\checkmark$	$\checkmark$	-	-
	Environment classifier	5 configurations	5 configurations	3 configurations	Not adjustable
	Virtual Outer Ear	3 configurations	2 configurations	1 configuration	1 configuration
	Spatial Balancer	100%	60%	60%	40%
	Neural Noise Suppression Difficult/Easy	12 dB / 6 dB	10 dB / 4 dB	8 dB / 2 dB	6 dB / 0 dB
understanding	Sound Enhancer	3 configurations	2 configurations	1 configuration	1 configuration
<u>&amp;</u>	Wind & Handling Stabilizer	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
listening ease	MoreSound Amplifier™ 3.0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	SuddenSound Stabilizer	6 configurations	5 configurations	4 configurations	2 configurations
	MoreSound Optimizer™	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	Feedback shield	1	$\checkmark$	$\checkmark$	$\checkmark$
	Spatial Sound™	4 estimators	4 estimators	4 estimators	-
	Soft Speech Booster	1	1	$\checkmark$	$\checkmark$
	Frequency lowering, Speech Rescue™	1	1	1	$\checkmark$
	Clear Dynamics	1	$\checkmark$	-	-
	Better-Ear Priority	1	$\checkmark$	1	-
Sound quality	Fitting Bandwidth <sup>1</sup>	10 kHz	8 kHz	8 kHz	8 kHz
	Power bass (streaming)	1	1	1	$\checkmark$
	Processing channels	64	48	48	48
Demonstration	Fitting bands	24	20	18	14
Personalization & optimizing fitting	Multiple directionality options	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	Adaptation management	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	Fitting formulas	VAC+, NAL-NL1/ NAL-NL2, DSL v5			
	Oticon Companion app	1	$\checkmark$	$\checkmark$	$\checkmark$
	LE Audio	1	✓	✓	$\checkmark$
	Hands-free communication <sup>2</sup>	1	✓	✓	$\checkmark$
Connecting	Direct streaming <sup>3</sup>	1	✓	✓	$\checkmark$
Connecting to the world	ConnectClip	1	1	1	$\checkmark$
	EduMic	1	1	1	$\checkmark$
	Remote Control 3.0	1	1	1	$\checkmark$
	TV Adapter 3.0	1	1	1	$\checkmark$
	Phone Adapter 2.0 (with ConnectClip)	✓	1	✓	$\checkmark$
	Tinnitus SoundSupport™	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	CROS/BiCROS support	1	J	1	./

<sup>1</sup> Bandwidth accessible for gain adjustments during fitting. <sup>2</sup>Hands-free communication is available with select Android<sup>™</sup> devices. iPhone<sup>®</sup> 11 or later running iOS 15.2 or later, and iPad<sup>®</sup> running iPadOS<sup>®</sup> 15.2 or later. <sup>3</sup>From iPhone<sup>®</sup>, iPad<sup>®</sup>, iPod touch<sup>®</sup>, Mac computers with macOS<sup>®</sup> Sonoma, and select Android<sup>™</sup> devices with the Audio Streaming for Hearing Aids (ASHA) protocol.

# Our smallest rechargeable miniRITE style ever

Oticon Intent miniRITE is a discreet, rechargeable hearing aid with a lithium-ion battery and a new, easy-to-use charger. At 1.7 mm shorter than any previous Oticon miniRITE rechargeable style, the new miniRITE is modern and sleek, yet it features both a telecoil and a size 13 lithium-ion battery that gives hearing aid users more power between charges and five years of use.

## Connectivity

Oticon Intent miniRITE is a Made for iPhone<sup>®</sup> hearing aid and compatible with Bluetooth<sup>®</sup> LE Audio and the streaming protocol for Android<sup>™</sup> – ASHA. This enables hands-free calls and direct streaming using iPhone<sup>®</sup>, iPad<sup>®</sup>, Mac<sup>®</sup>, and select Android devices, and direct streaming and video calls from select Windows<sup>®</sup> PCs.\*

## **Style innovations**

**miniFit Detect receivers** - our self-calibrating innovation gives precise gain to the user and valuable information to you about fitting, thanks to an embedded memory.

**MicroShell Detect** – custom-made earpieces in all four fitting levels for full fitting freedom.

Accept and end calls with a double-tap on the ear even when wearing a hat or gloves – a discreet, built-in call tone tells users when a call has been accepted or ended.

\* Hands-free communication is available with select Android™ devices and iPhone® 11 or later running iOS 15.2 or later, and iPad® running iPadOS® 15.2 or later.

Direct streaming is available with iPhone, iPad, iPod touch®, Mac® computers with macOS® Sonoma, and select Android™ devices with the Audio Streaming for Hearing Aids (ASHA) protocol.

Please visit oticon.com/support/compatibility for more information

## **Hardware features**

Easy-to-use single push-button for quick and intuitive hearing aid control.

**Pulsing LED light** gives a visible activity indicator, making it easier for caretakers, users, and hearing care professionals to see the hearing aid's status.

**Tinnitus SoundSupport** for tinnitus relief sounds which can be controlled via the Oticon Companion app.

Telecoil to connect to information systems in public places.

**IP68 certification** for dust and water resistance ensures a robust and reliable hearing aid, with all vital components nano-coated inside and out.

## Fitting

Nine colors include the new Honey Beige and Sky Blue.

**Four** fitting levels are available.

**Noahlink Wireless and Noahlink Wireless 2** are the only programming devices to use when fitting Oticon Intent or performing hearing aid firmware updates.

Oticon Intent miniRITE can also be fitted while it's being charged if the situation requires.



## TELL YOUR PATIENT

The Oticon Intent miniRITE is a small and very discreet hearing aid.

## New charger

The Oticon Intent miniRITE charger is an all-new design using contact charging technology for efficiency and reliability. It is designed from the ground up to fit seamlessly into the user's life and be discreet and pleasing to the eye.

## Improved contact charging technology

Contact charging is faster than inductive charging, providing the fastest charging of an Oticon hearing aid ever. It's also more reliable, because whenever the hearing aids are in the charger and the LEDs illuminate orange, charging happens at full capacity.

## Fast charging

- A full day\* of hearing aid use after one hour of charging
- Four hours of power in just a 15-minute charge
- **Eight hours** of power after just a 30-minute charge

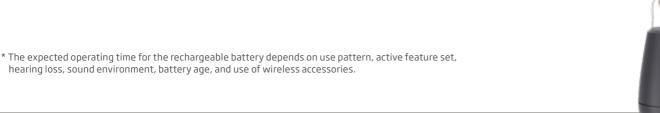
## User-friendly design ensures reliable charging

- Highly stable, making it easy to use every day
- Clearly marked charging ports (gray inlets and blue and red color markings) help users succeed in placing their Oticon Intent hearing aids correctly
- Magnetic retention ensures a tight contact for optimal charging
- The design of the springs in the charging ports ensures removal of any dirt on the hearing aids' charging contacts as they're placed in the charger, ensuring optimal contact

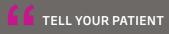
## Fitting

With fast and flexible charging times, the charger ensures Oticon Intent will be powered up for each user's next fitting session or firmware update. Oticon Intent can also be fitted while it's being charged if the situation requires.

oticon



Desktop charger for miniRITE



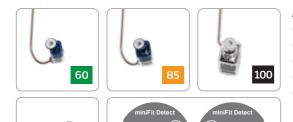
The charger is very easy to use and can quickly charge your hearing aids up again should they ever run out of power.

hearing loss, sound environment, battery age, and use of wireless accessories.

# Receivers, molds, and earpieces for miniRITE

## miniFit Detect receivers

Select between three different receivers. The miniFit Detect receivers 60 and 85 are available with wire length 0-5, and miniFit Detect receiver 100 is available in wire length 1-5.



## Accessories for miniFit Detect receivers:

- Ear grip for miniFit Detect receiver 60
- Ear grip for miniFit Detect receiver 85
- Ear grip for miniFit Detect receiver 100
- ProWax miniFit filter
- miniFit Detect measurement tool **new**

## Standard earpieces

miniFit domes		5 mm	6 mm	8 mm	10 mm	12 mm
OpenBass dome	3	60	60 85	60 85	60 85	60 85
Bass dome, double vent	62		60 85 100	60 85 100	60 85 100	60 85 100
Power dome	( BE		60 85 100	60 85 100	60 85 100	60 85 100

#### miniFit domes characteristics:

- Compatible with miniFit Detect receivers
- Made of silicone
- Built-in wax protection

#### Grip Tip

Select between two different Grip Tip types, in two different sizes (small & large) for both left and right ear.



Grip Tip characteristics:

- More durable than domes
- Tacky texture to help prevent slippage

## MicroShell Detect

Select between four MicroShell Detect fitting levels. MicroShell Detect have fixed wires in length 1-5.



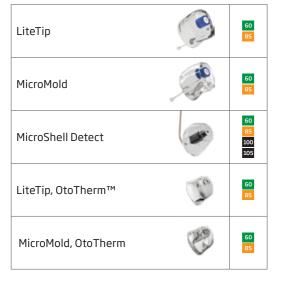




## Accessories for MicroShell Detect:

- ProWax miniFit filter (60/85 receivers)
- ProWax filter (100/105 receivers)
- miniFit Detect measurement tool **new**

## Customized earpieces\*



LiteTip and MicroMold characteristics:

- Based on an ear impression
- Made of acrylic uses ProWax filter
- Made of other materials uses ProWax miniFit filter

#### MicroShell Detect characteristics:

- Based on an ear impression
- Made of acrylic
- Has a fixed wire and speaker
- Use Prowax miniFit filter for receiver 60/85 and ProWax filter for receiver 100/105

#### OtoTherm characteristics:

- Based on an ear impression
- Made of thermoplastic material
- Remains hard at room temperature for easy insertion
- Softens at body temperature for increased comfort and optimal sealing
- Available in shore 70 hardness

#### Please note:

OtoTherm earpieces require gentle warming using a hair dryer with a maximum power output of 1400 W before insertion or removal of the receiver.

\* Requires taking an ear impression

# Oticon Intent overview

Style	miniRITE
Battery	Lithium-ion
Expected operating time (h)*	24
Rechargeable	•
Wireless 2.4 GHz Bluetooth technology	•
Program control	•
Volume control	•
Telecoil	•
Hardware certification	IP68 – Water and dust resistant
Wireless fitting and firmware update	Noahlink Wireless/Noahlink Wireless 2





\* The expected operating time for the rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age, and use of wireless accessories



# Bluetooth<sup>®</sup> technology in hearing aids

Bluetooth technology enables devices to speak together and transfer data wirelessly. Bluetooth can refer to three different wireless technologies: Bluetooth® Classic, Bluetooth® Low Energy, and Bluetooth® LE Audio.

#### **Bluetooth LE Audio**

Oticon Intent hearing aids use the Bluetooth LE Audio standard because it is a newer technology that consumes much less power than Bluetooth Classic, ensuring longer hearing aid battery life. It also enables users with smart devices that can handle Bluetooth LE Audio to directly stream audio content and make hands-free calls from select Android<sup>™</sup> phones, tablets with Android 14, and select Windows 11 PCs.

#### iPhone, iPad, and Mac

Oticon Intent hearing aids are Made for iPhone® hearing aids that support hands-free communication, making it possible for your patients to make or receive hands-free phone and video calls or stream music from their iPhone or iPad. Your patients can also stream sound directly from Mac to Oticon Intent hearing aids\*.

## Android devices

Android devices that support ASHA\*\* can directly stream audio content and phone calls and music directly to Oticon Intent.

ASHA is short for Audio Streaming for Hearing Aids, which is an Android protocol that makes it possible for Android devices to stream audio to hearing aids.

#### ConnectClip

If hands-free communication or direct streaming are not supported by your patient's phone, ConnectClip is the intermediary device needed to connect the phone to the hearing aids and enjoy hands-free calls. ConnectClip acts as a microphone and streams sound between the hearing aids and other sound devices.

To find out more about the compatibility of Oticon Intent with smartphones, apps, and connectivity products, visit: oticon.com/support/compatibility

\* Hands-free communication is available with iPhone® 11 or later running iOS 15.2 or later, and iPad® running iPadOS® 15.2 or later. Direct streaming From iPhone®, iPad®, iPod touch®, and Mac computers with macOS® Sonoma.

\*\* See which hearing aids and devices are compatible here: oticon.com/support/compatibility



## TELL YOUR PATIENT

Oticon Intent lets you have hands-free calls with both iPhone and Android, and is ready for future devices.

## Hands-free communication

Oticon hearing aids support Bluetooth LE Audio and are also Made for iPhone hearing aids. These technologies support hands-free communication, making it possible to receive hands-free\* phone calls and video calls on a large number of digital devices such as iPhone, iPad, Mac, select Android phones and tablets, as well as select Windows PCs.

Your patients can call their loved ones on the road, take calls when they are out exercising, and enjoy all the possibilities of multi-tasking with their hands free.

## How it works:

- Your patient makes or receives a call on their smart device
- The call audio is sent wirelessly to their hearing aids
- The hearing aid microphones capture your patient's voice
- Their voice is sent to the smart device

## Streaming directly from a digital device

Oticon Intent offers an immersive streaming experience with excellent sound quality from digital devices.

## iPhone, iPad, and Mac

Oticon Intent is a Made for iPhone hearing aid. It can directly connect to iPhone and iPad for streaming audio and thereby act as a wireless headphone – without the need for an intermediary device. The same functions are supported on Mac.

## **Android devices**

Oticon Intent also supports Bluetooth LE Audio and ASHA and can therefore stream audio directly from Android devices that also support LE Audio or ASHA. Users of devices that do not support LE Audio or ASHA should use ConnectClip as an intermediary device.

## Windows PC

Oticon Intent can stream any sound wirelessly from a patient's computer to their hearing aids – for instance music or an audiobook. They can also have video conversations as their voice is streamed back from LE Audio-enabled Windows 11 laptops or PCs.

Users of devices that do not support LE Audio should use ConnectClip as an intermediary device.



\* Hands-free communication is available with select devices. See which hearing aids and devices are compatible here: oticon.com/support/compatibility



## TELL YOUR PATIENT

Oticon Intent hearing aids support hands-free communication,\* making it possible for you to make or receive hands-free phone and video calls on an iPhone, iPad, Mac, and select Android devices.



## TELL YOUR PATIENT

You can stream sound directly from iPhone, iPad, Mac and Android devices to your Oticon Intent hearing aids.

## Controlling hearing aids with Oticon Companion

Oticon Companion is an app that gives people a discreet way to control their hearing aids. Using the app, your patients can:

- Adjust the volume of their hearing aids independently and switch between listening programs including Oticon MyMusic
- Keep an eye on their battery level
- Find their hearing aids if they lose them
- Use SpeechBooster to reduce background noise and enhance speech whenever they need to focus on a conversation
- Customize their surrounding sounds with the Sound equalizer
- Fine-tune the sound when streaming music or movies using the Streaming equalizer feature
- Interact with wireless accessories that are paired with their hearing aids, including TV Adapter, EduMic, and ConnectClip
- Receive remote support from their hearing care professional via a live video call, and have their hearing aids adjusted in real time



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Download on the

App Store

## TELL YOUR PATIENT

Connect your smartphone to your hearing aids to control volume, switch programs, check battery level, and more – with just a tap of your finger.

# Oticon MyMusic – A dedicated program for music lovers

With Oticon MyMusic, we've taken a giant step towards overcoming one of the toughest challenges for hearing aids: making an outstanding music listening experience.

Co-created with music lovers who have different types of hearing loss, Oticon MyMusic is tailor-made to deliver excellent music performance, with music-oriented signal processing strategies such as an optimized compression scheme. This processing captures the complex dynamics of music much better than trying to apply ordinary speech processing strategies to music.\*

With this new capability, we've taken an impressive step in improving the music listening experience for people with hearing loss.



\* Brændgaard (2021). The development behind Oticon MyMusic. Oticon Tech paper.



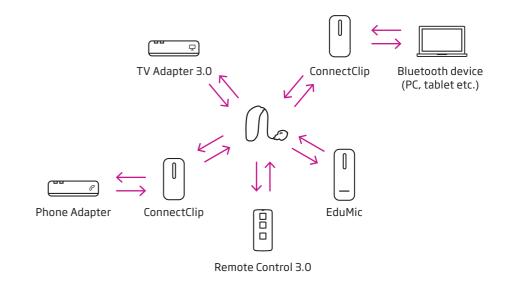
## TELL YOUR PATIENT

Change the program to Oticon MyMusic whenever you want to listen to live music or streamed music.

# An extensive range of connectivity possibilities

Oticon Intent hearing aids can connect wirelessly to a wide range of devices:

- **Smartphones** Enable music & audio streaming and use of Oticon Companion for hearing aid control
- **ConnectClip** Transforms hearing aids into a wireless headset and also works as a remote microphone
- **TV Adapter** Streams TV sound directly to hearing aids without affecting the TV volume level
- Remote Control Helps people discreetly control their hearing aids
- **Phone Adapter** Connects hearing aids to a landline phone, together with ConnectClip
- **EduMic** Helps people overcome distance and noise, by acting as a remote microphone, a telecoil receiver, or a media streamer





TELL YOUR PATIENT

Expand the benefits of your hearing aids using Oticon connectivity devices.



## TELL YOUR PATIENT

Enjoy comfortable hands-free calls using ConnectClip.

## Calling hands-free with ConnectClip

## From mobile devices

Oticon Intent hearing aids, used together with ConnectClip, allow for handsfree, two-way audio streaming of conversations from any device supporting classic Bluetooth technology. The hearing aids are transformed into a wireless headset and the user's voice is picked up by ConnectClip's built-in directional microphones.

## From a landline

Phone Adapter 2.0, used together with ConnectClip, allows for hands-free, two-way audio streaming of conversations between a landline and the hearing aids.

# Streaming from a computer or tablet with ConnectClip

Using ConnectClip, users can stream any sound wirelessly from their computer to their hearing aids – for instance music or an audiobook. They can also have video conversations as their voice is streamed back to the computer using ConnectClip's microphone.

ConnectClip can be directly paired to the computer or via the BTD 800 USB dongle for a stronger and more reliable connection.

## Streaming from a TV with TV Adapter 3.0

TV Adapter 3.0 enables users of Oticon Intent to wirelessly stream the sound from their TV or home entertainment system directly to their hearing aids. Users can set the volume to their preferred level - while keeping the TV volume comfortable for others in the room - and enjoy a quality listening experience free from the distraction of surrounding noise.

TV Adapter 3.0 offers multiple options to connect to TVs and other audio sources.

TV Adapter 3.0 can simultaneously stream to as many Oticon hearing aids as needed. Users of Oticon Intent hearing aids can pair with up to 4 TV Adapters and use the Oticon Companion app to select the one they wish to stream sound from.







## TELL YOUR PATIENT

Stream video conversations between your computer and your hearing aids.



## **TELL YOUR PATIENT**

Listen to your TV at the volume that you prefer, while keeping it comfortable for your family.

## Streaming from a hearing loop system



Oticon Intent features a telecoil and can stream audio from hearing loop systems without any additional device.

# Controlling hearing aids with Remote Control 3.0

Remote Control 3.0 is a small device that gives users discreet control over their Oticon hearing aids. It makes it possible to easily adjust volume, switch between programs, or mute the hearing aids without touching them. Remote Control 3.0 is especially beneficial for users with dexterity challenges or for people in need of a discreet way to control their hearing aids in social situations.



## Making the most of education with EduMic

EduMic enables users to transmit their teacher's voice clearly and directly to their hearing aids. It has been shown to improve speech understanding in noisy and reverberant environments, for an enhanced learning experience\*.

EduMic streams sound from numerous media outlets directly to hearing aids. It also connects to existing FM classroom systems.



## Hearing from a distance with ConnectClip or EduMic

Oticon ConnectClip and EduMic are both remote microphones that can stream another person's voice directly to Oticon Intent hearing aids. They can help the user hear what's important, even in crowded and noisy environments or when the speaker is some distance away.

Using the Oticon Companion app, users can also adjust environmental noise to focus more easily on their conversation partner.

\* Gordey, D.W., & Rumley, J. (2019). Enhanced learning with EduMic [White paper]. Centre for Applied Audiology Research, Oticon.



## TELL YOUR PATIENT

Get access to sound from hearing loop systems in public places such as theaters, museums, lecture halls, or cinemas.



## TELL YOUR PATIENT

Transmit your teacher's voice directly to your hearing aids to overcome distance and noise.





Oticon is part of the Demant Group.