

# STRATOS

EXPLORE NEW GALAXIES  
OF HEARING

FOR  
HEARING CARE  
PROFESSIONALS

 **HANSATON**  
*hearing & emotions*



# A star is born

## **HANSATON hearing systems for a new level of freedom**

Innovative by tradition:

Since the inception of HANSATON in Hamburg, Germany, we have been striving to provide exceptional, cutting-edge products with impeccable design to our exclusive partners and their clients.

We have a driving passion to help people hear better. We deliver on that passion with esthetically pleasing designs so people can be proud to use our hearing systems.

STRATOS is an incredible new step on this journey.

### **We invite you to join us...**

Together we can provide premium designs and innovative technology for exceptional hearing and emotions.



# EXPLORE NEW GALAXIES OF HEARING

## **NEW LEVEL OF SOUND PERFORMANCE**

featuring our ingenious new Intelligent NoiseReduction

## **LIFESTYLE ANALYZER**

for increased confidence in  
performance level recommendations

## **IMPROVED EASE OF USE**

with tap control and new personalized features  
for you and your clients

## **NEW EXCLUSIVE DESIGNS AND COLORS**

for RIC and BTE hearing systems  
your clients will love

# A New Dimension of HearIntelligence™

HearIntelligence technology was developed by HANSATON with the goal of enhancing natural functions and processes in human hearing.

HearIntelligence technology senses the acoustic environment as closely as possible to the way nature does. It uses advanced innovative technologies to support the complex interactions between the incoming sound, the hearing organs and the brain. Smooth interactions between each feature are designed to recreate multidimensional hearing for realistic connections with the acoustic environment in a multitude of social situations.

The PRISM™ chip, with double the memory, opened up further possibilities for HearIntelligence technology to reach new heights with STRATOS.



INTELLIGENT  
AUTOSURROUND



FOCUSING  
ON SPEECH



LOCALIZATION OF  
ACOUSTIC SIGNALS



## HEAR Intelligence™

supports natural hearing intelligence



COMFORT  
IN NOISE



PERSONALIZED  
ADJUSTMENTS



WIRELESS  
CONNECTIVITY



# HEAR Intelligence™

## Let's have a closer look...

Learn more about HearIntelligence™ technology and how it helps your clients get back in touch with the world around them:



### INTELLIGENT AUTOSURROUND

**Continuous adaptation to the acoustic environment for more exact signal processing**

Acoustic detectors precisely and quickly monitor the surrounding acoustic environment hundreds of times per second. This occurs automatically without the need for interaction, so the brain can more easily focus on processing and integrating the signals received. HANSATON hearing systems react rapidly and accurately to changes in the world of sound around them.

SurroundSupervisor | **UPDATED:** Intelligent AutoSurround | AutoStream (SpeechStream, MusicStream)



### FOCUSING ON SPEECH

**Distracting noise filtered out, with focus placed on speech**

A person with normal hearing is able to filter out distracting noise to permit concentration on a desired sound source. Hearing aids equipped with HearIntelligence technology are designed to help perform this task for users, i.e. to focus on speakers and block out nonrelevant background sounds, regardless of the direction they are coming from. More focus on speakers helps to understand what is said without unwanted distractions.

**UPDATED:** Dynamic SpeechBeam | **UPDATED:** SpeechBeam | ConversationOptimizer | ConversationBoost | ConversationLift

All comparisons mentioned here and further on refer to STRATOS and previous HANSATON products.



### LOCALIZATION OF ACOUSTIC SIGNALS

**Localization of sound sources for a multidimensional hearing experience**

A good sense of spatial awareness is essential for anyone in new or changing surroundings. Sound source localization provides fixed points for spatial orientation and for focusing on specific sound sources. The natural factors relevant for spatial localization, such as ear shape and head dimensions, are emulated by HearIntelligence technology. The intended result: minimizing the impact of missing acoustic cues typically lost when wearing hearing aids.

SphereSound Natural | SphereSound



### COMFORT IN NOISE

**Suppressing interfering noise for more comfort**

Persons with non-impaired hearing can usually ignore disturbing noise and concentrate instead on the important sounds they want to hear. HANSATON's HearIntelligence technology supports this process by processing incoming sound and reducing it to essential components that are either boosted or suppressed, providing an optimized hearing experience for hearing aid users.

**NEW:** Intelligent NoiseReduction | Sound Impulse Manager | Active Wind Block | FeedbackManager | Tinnitus Manager



### PERSONALIZED ADJUSTMENTS

**Adjustments for a personalized and optimized hearing experience**

Acoustic environments are made up of numerous components of sounds, including speech and noise at constantly varying levels. The brain uses these signals to determine what information is useful and what is not. HANSATON hearing systems provide something that everyone wants: an approach that supports an easy, well-received first fit. The audio levels can automatically adapt over time to reach target. HANSATON hearing systems can also deliver a comfortable first fit experience and confident selection of devices and technology levels, making the whole process of getting hearing systems quite relaxed.

FocussedFit | Intelligent Acclimatization | DataLogging | **NEW:** Lifestyle Analyzer



### WIRELESS CONNECTIVITY

**Powerful interfacing options, smart multimedia solutions**

For HANSATON hearing system users, quick and intuitive connectivity to TVs and smart-phones is something they don't have to do without. HANSATON hearing aids are designed with HearIntelligence technology to promote ease of use and excellent tone quality – even in diverse and demanding multimedia applications.

Made for all phones\* | **UPDATED:** Handsfree Bluetooth® phone calls | TV Connector | PartnerMic | Remote Control | RogerDirect™ | **UPDATED:** stream remote App

\*Smartphones and traditional mobile phones with compatible Bluetooth® profiles. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.

# Our goal: natural hearing The result: STRATOS vibrant sound processing

With STRATOS we come even closer to preserving natural hearing, ensuring audibility and highlighting speech.

## Let's have a closer look...

Sound waves are transmitted to the auditory nerve by the cochlea with very distinctive patterns. These patterns, unique by frequency and by input level, are the key to our brain's natural hearing. With hearing loss, these excitation patterns are compromised, impairing our natural hearing.

By replicating how our ears transmit soft to loud and low to high frequency sounds to our brains STRATOS aims to make sounds as natural as possible. With the goal of restoring natural hearing, our new vibrant sound

processing model is designed to replicate the cochlea's excitation patterns in frequency and level.

Our temporal processing smooths the gain to preserve speech dynamics while providing the levels needed for audibility. With the PRISM™ chip, this adaptive algorithm can live-monitor vocal onsets and envelopes as well as environmental sounds to match the acoustic situation. This helps maintain audibility for the envelope and fine structure of sound, which are critical to hearing both speech and music.

**The new vibrant sound processing model is active in all our STRATOS hearing systems right from the first fit, which can provide your clients with a more natural listening experience and better sound right from the start.**

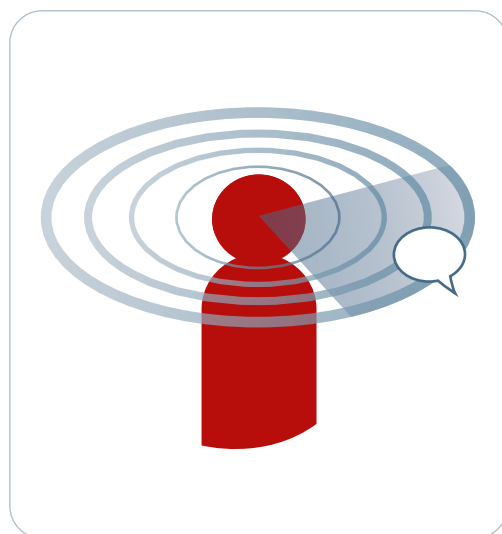




# Intelligent speech focus

HANSATON has achieved a new level of hearing performance thanks to improved innovations with STRATOS.

## Dynamic SpeechBeam with Intelligent NoiseReduction



**Dynamic SpeechBeam** helps your clients to focus on a conversation partner in difficult listening environments, regardless of which direction the speech is coming from – by its binaural 360° speech recognition capability.



**Intelligent NoiseReduction** is designed to highlight speech from the front by canceling intense background noise from beside and behind.

Together, Dynamic SpeechBeam and Intelligent NoiseReduction help provide better opportunities for your clients to hear in acoustically challenging situations... like enjoying a relaxed conversation in the kitchen, while preparing a smoothie.





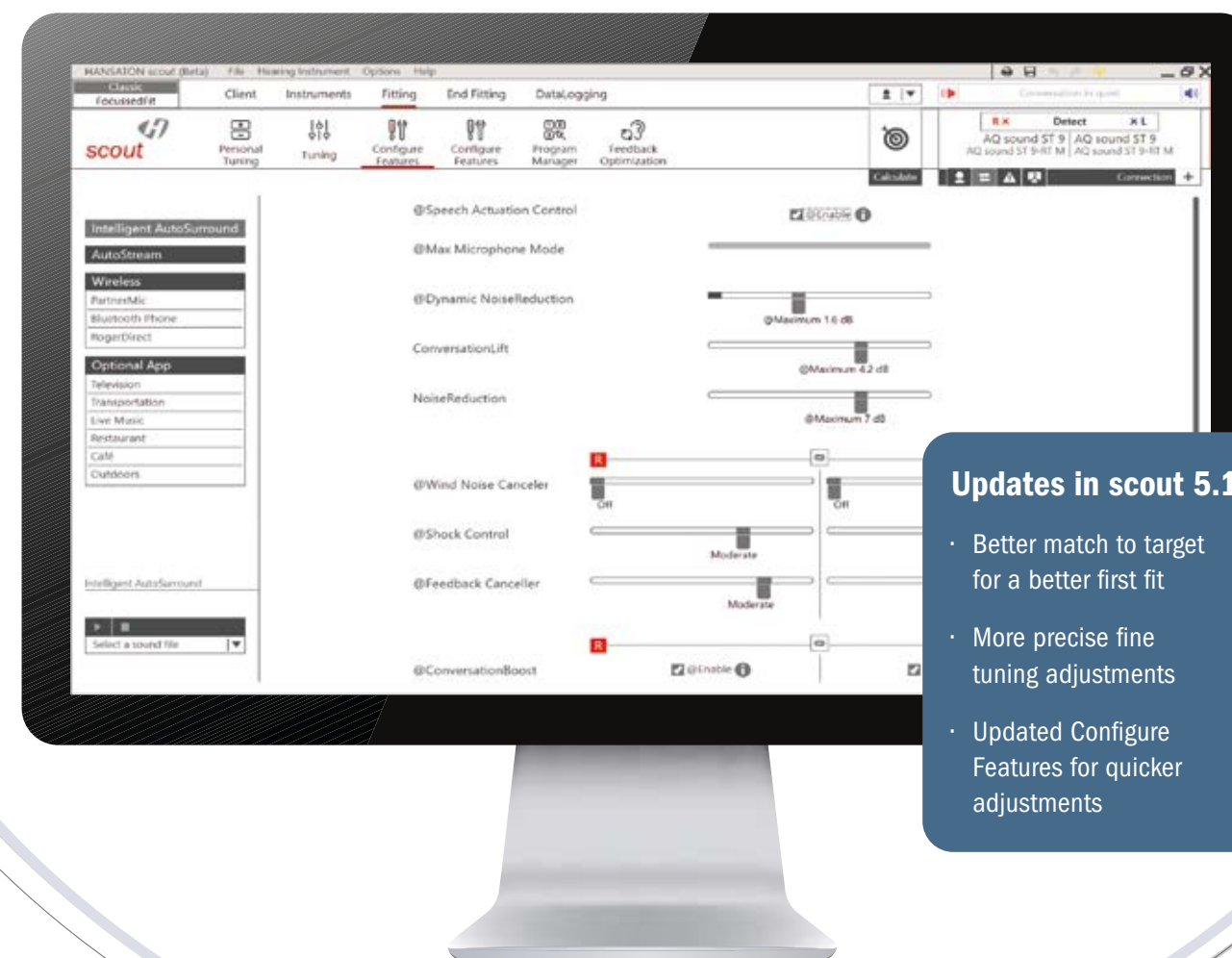
# Equipped for everyday life

Exceptional  
hearing  
experiences

## Intelligent AutoSurround with AutoStream, ConversationOptimizer & ConversationBoost

Based on seven types of environments, Intelligent AutoSurround can automatically manage the adaptation to changing listening situations. While streaming from a device, AutoStream automatically differentiates sound types, so both speech and music can be treated uniquely. Soft voices and quiet conversations often pose challenges for people with hearing loss. ConversationBoost identifies soft speech sounds and boosts them up above the background noise to make quietly spoken words easier to hear.

Among the toughest situations facing people with hearing loss are group conversations with numerous loud discussions taking place at the same time. ConversationOptimizer was designed to highlight speech, particularly in intense background noise. Using binaural 360° speech recognition capability, it was designed to focus on speech – even if people are talking from the side or behind. Let's make sure next time your clients raise their glasses they're fully equipped to enjoy participating in the conversations.



### Updates in scout 5.1:

- Better match to target for a better first fit
- More precise fine tuning adjustments
- Updated Configure Features for quicker adjustments



# The first impression counts

## First fittings in scout

The first fit of new hearing aids makes a critical first impression with your clients. It is therefore extremely important to offer them a great hearing experience right from the start: so STRATOS was designed from the ground up to include smooth Intelligent Acclimatization from the first fit to final settings. Intelligent Acclimatization expands HANSATON's BalanceFit fitting approach to meet the needs of first time

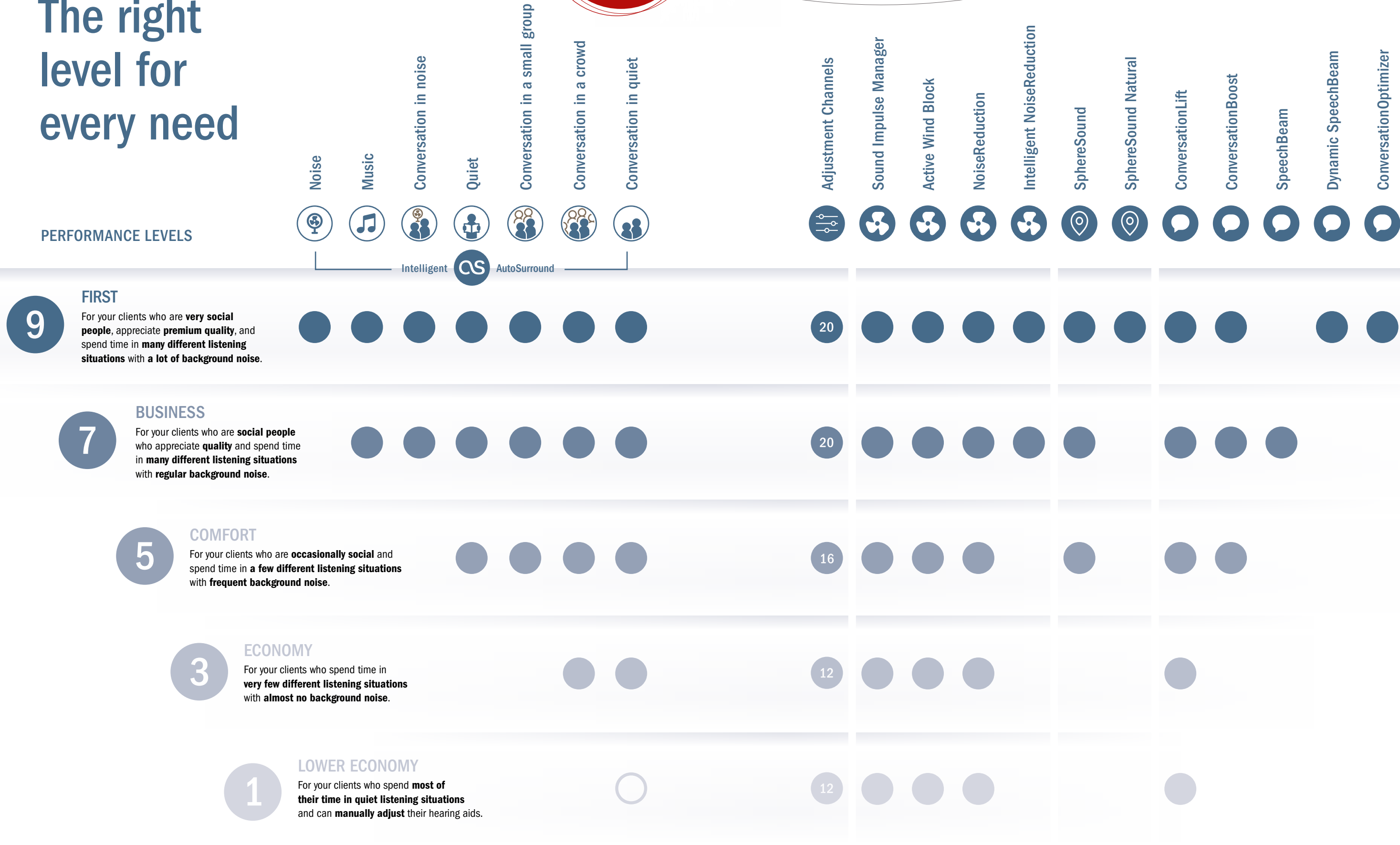
and experienced users. It adjusts the balance between high and low frequencies with more emphasis on low frequencies for first time users, to increase spontaneous acceptance. This delivers balanced sound at the comfortable level they want then automatically and gradually advances them to the level they need. Easy set-up of the Intelligent Acclimatization in scout helps you achieve a great first fit experience for your clients.



# The right level for every need

Find the right level for your client

PERFORMANCE LEVELS





# Making decisions easy

## The new Lifestyle Analyzer:

Support your clients in their performance level decision!

Selecting the right performance level is crucial to your client's success with their hearing aids. However, they often find it difficult to describe the types of acoustic situations they encounter most often. Wouldn't it be ideal if you could travel with them to hear their environments and know how challenging they typically are?

That's exactly what the Lifestyle Analyzer allows you to do. Your client's hearing aids can monitor their listening environments and report back to you how much time they spend in each type.

The visualizations in scout allow you to involve your client in the decision-making process by simply and objectively seeing how well each performance level matches their lifestyle.

You can move from being a salesperson to being an advisor to find the right performance level for your client... together!



## TIP

**The new Lifestyle Analyzer is great with new clients:** Fit them with myChoice, HANSATON's programmable trial devices, and review their personal lifestyle after 1-3 weeks. You'll be able to make a personalized, fact-based recommendation about which performance level is best for them.

The **Lifestyle Analyzer** helps you to analyze, visualize and explain the different performance levels.



# NEW STARS ON THE HORIZON

## COMPLEMENTARY COLORS

HANSATON wave design and hearing aid in tone-on-tone for an elegant touch

## IMPECCABLE DESIGN

Sophisticated refinement to delight your clients

## MODERN BY TRADITION

HANSATON stands for beautifully designed hearing aids





# RIC hearing systems – tiny size, great performance



With the outstanding performance of STRATOS, your clients will enter new spheres of hearing, supported by direct connectivity.

3 cm  
2 cm  
1 cm  
0 cm

**sound ST R312**

At only 2.4 cm, the sound ST R312 is almost imperceptible and yet impresses with its innovative, powerful technology and a traditional 312 battery.

3 cm  
2 cm  
1 cm  
0 cm

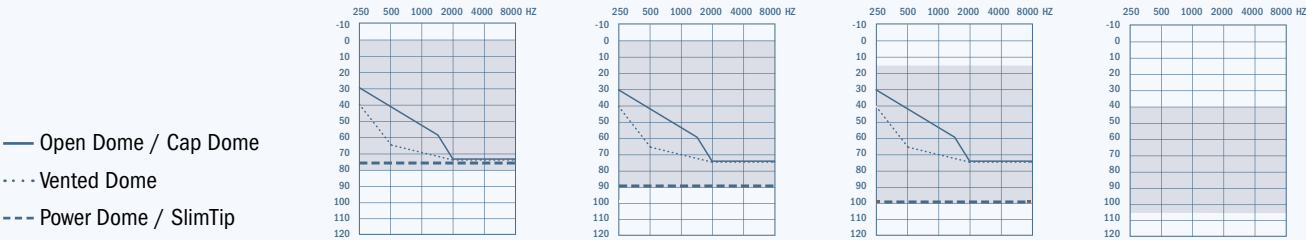
**AQ sound ST R**

The AQ sound ST R is our smallest rechargeable hearing wonder. It measures 2.5 cm and is powered by a Lithium-ion battery.

3 cm  
2 cm  
1 cm  
0 cm

**AQ sound ST RT**

The rechargeable hearing system is also available in a telecoil-equipped version, which measures 2.8 cm in size.



Receiver type	S	M	P	UP
Output / Gain (2cc)	111 / 47	114 / 51	122 / 59	132 / 71

# BTE hearing systems – robust, rechargeable and connected



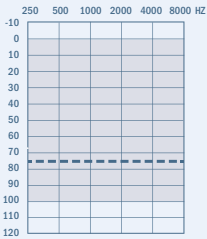
**NEW** The new BTE provides increased gain and leverages all advantages of the STRATOS platform.

4 cm  
3 cm  
2 cm  
1 cm  
0 cm

**AQ beat ST R**

With 3.3 cm the AQ beat ST R convinces with a new dual receiver and a rechargeable Lithium-ion battery.

--- Slim Tube



Receiver type	P
Output / Gain (2cc) Earhook	130 / 68
Output / Gain (2cc) Slim Tube	129 / 69

The right  
hearing aid  
for every need

Products are shown at actual size.



Experience  
a new generation  
of UP systems!

# Ultra Power hearing systems: state-of-the-art technology in the latest design

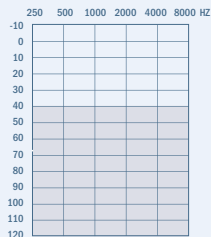


**NEW** Enjoy all the STRATOS wireless connectivity possibilities, from hands-free phone calls to accessories and RogerDirect, now with our Ultra Power BTE.



## beat ST RT675 UP

With dual receiver for higher output and gain (141/84), the beat ST RT675 UP is HANSATON's most powerful BTE hearing wonder in a modern design. It measures 4.0 cm and is powered by a 675 replaceable battery.



--- Slim Tube

Receiver type	UP
Output / Gain (2cc) Unfiltered Earhook	141 / 84
Output / Gain (2cc) Filtered Earhook	134 / 78

Product is shown at actual size.

# Find the right pre-set

Each client's needs and priorities are different, especially when it comes to ultra power hearing systems. So for the UP hearing aids there are three pre-sets to get a more personalized start.

Classic	Modern	Active
Your client is a long-time power hearing system wearer. Omni microphones provide the stable acoustic base for the classic sound processing. The amplification focuses on the audibility of ambient sounds and speech.	Your client tends toward modern signal processing and reduced directionality. They prefer greater amplification with a focus on speech intelligibility and reduced ambient sounds.	Your client prefers active signal processing and maximum feature effect with maximum directionality. The focus lies on speech intelligibility at the highest level of comfort.

Simply start your adjustment with one of the three pre-sets and benefit from quicker adjustment success and spontaneous acceptance.

	Classic	Modern	Active
Fitting formula	DSLv5	BalanceFit	BalanceFit
Amplification strategy	WDRC	WDRC	WDRC
Microphone input strategy	Omni	Fixed <sup>1</sup>	Adaptive <sup>2</sup>
ConversationLift	Above default	Below default	Default
NoiseReduction	Off	Below default	Default
AcclimatizationManager	100%	100%	Calculated
SoundRestore	Calculated	Calculated	Calculated
Sound Impulse Manager	Moderate	Moderate	Moderate

<sup>1</sup> Ranges from Pinna Effect or SphereSound to Fixed Wide Directional, depending on the performance level  
<sup>2</sup> Ranges from Pinna Effect or SphereSound to Fixed Wide Directional / SpeechBeam / Dynamic SpeechBeam, depending on the performance level

**TIP**

Help ensure durability and fewer repairs with the HADEO Clean & Care line by HANSATON



## Rechargeable: 24 hours of runtime

Advanced Lithium-ion technology gives the hearing instruments 24 hours of runtime between charges.



### COMFORT CHARGER COMBI

This Comfort Charger Combi is a charger and protective hard case in one. With the help of optional HADEO drying capsules, it also dries hearing systems when closed.

**Dry, protect, charge!**

### COMFORT POWER PACK

The Comfort Power Pack has a built-in, non-removable Lithium-ion battery that can charge hearing systems up to seven times – for easy on-the-go charging all day long.

**Freedom on the road!**

### HANSATON CHARGER

The smaller HANSATON Charger combines charging comfort and attractive design. With a maximum charging time of three hours, hearing systems with Lithium-ion batteries can be charged.

**Small but powerful!**

## Recommending the matching charger

Check at one glance which chargers are compatible with STRATOS hearing systems and support your customers in making the right choice for their lifestyle.

Charger	Hansaton Charger	Comfort Charger Combi
AQ sound ST R	✓	✓
AQ sound ST RT	✓	✓
AQ beat ST R	✓	



### Rechargeable Runtime (charging from 0 % to 100 % in 3 hours\*)

24 hours: Without streaming  
16 hours: AirStream technology (TV Connector/PartnerMic)  
11 hours: Bluetooth® phone and music streaming

\*Actual charging time depends on the remaining battery life, but it will not exceed 3 hours.



Accessories  
for every hearing  
situation – easy  
to connect

# Wireless accessories for more freedom

Convince your clients with helpful accessories that make understanding easier<sup>1</sup> and enable optimal use of more listening sources.

## TV Connector<sup>2,3</sup>

The TV Connector makes it easy to send the audio from TVs and other audio devices, such as stereo systems, directly to the hearing aids. Multiple hearing aid wearers can watch TV or movies or listen to music from up to 15 meters away from their TV Connector.



## Remote Control<sup>3</sup>

The Remote Control is beautiful, handy and easy to use. The large, clearly labeled buttons make it very easy to adjust the volume. The listening environment or program can also be easily changed using this device.



## PartnerMic<sup>3</sup>

The remote microphone with its optimized design and performance can be easily attached to the clothing of a conversation partner with its integrated clip. It has excellent sound quality and battery performance. The PartnerMic is a real asset, especially in acoustically challenging situations.



## RogerDirect™

Hearing system wearers can benefit from the proven performance of Roger™ technology in noise and over distance<sup>1</sup>, streaming directly to STRATOS hearing systems. Roger microphones have the ability to distinguish the direction of incoming speech and give the flexibility to focus on all conversation.



roger

<sup>1</sup> Thibodeau, L. (2014). Comparison of speech recognition with adaptive digital and FM wireless technology by listeners who use hearing aids. American Journal of Audiology, 23(2), 201-210.

<sup>2</sup> The TV Connector accepts not only stereo signals, but Dolby signals as well.

Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

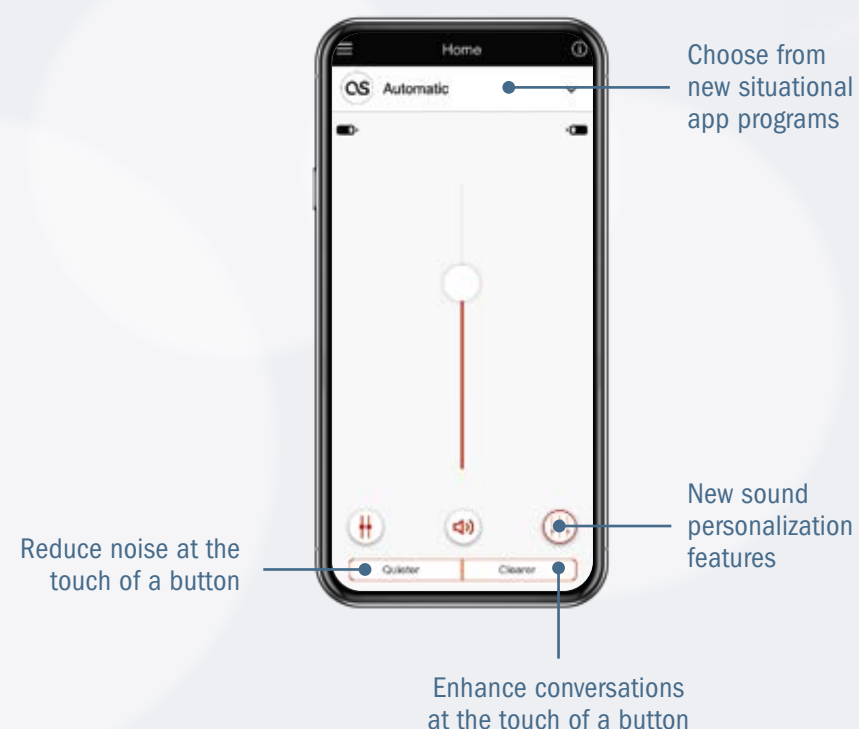
<sup>3</sup> Products are shown at actual size.





# Easier to use thanks to new connectivity features

New connectivity options offer your clients more dimensions for interacting with their hearing systems.



## Personalized hearing experience

Clients who own smartphones want the option to personalize their listening experience. We now provide easy as well as slightly more advanced ways for clients to do just that.

**Note:** Changes your clients make in the app are visible in scout fitting software.



## Tap control<sup>1</sup> – easy and effortless for your clients in everyday situations

Control mobile phone devices with a simple double tap on the ear:

- Accept & end phone calls
- Play & pause audio streaming
- Trigger your voice assistant (e.g. Siri, Google Now™ service...)

Hands-free phone calls with any Bluetooth® capable device<sup>2</sup>



## Two connections in one

By improved Bluetooth® functionality it is now possible to connect two phones or tablets at once: Listen to music from one device, then answer a phone call on the other!

<sup>1</sup> Available on rechargeable STRATOS hearing aids.

<sup>2</sup> Smartphones and traditional mobile phones with compatible Bluetooth® profiles. Siri is a trademark of Apple Inc. Google Now service is a trademark of Google LLC.



# STRATOS

## Performance Levels

Performance Levels	9 First	7 Business	5 Comfort	3 Economy	1 Lower Economy
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### INTELLIGENT AUTOSURROUND

GOAL: Automatic, quick recognition of the acoustic environment

UPDATED	Intelligent AutoSurround	7	6	4	2	
	Noise	✓				
	Music	✓	✓			
	Conversation in noise	✓	✓			
	Quiet	✓	✓	✓		
	Conversation in a small group	✓	✓	✓		
	Conversation in a crowd	✓	✓	✓	✓	
	Conversation in quiet	✓	✓	✓	✓	*
	AutoStream (SpeechStream, MusicStream)	✓	✓	✓	✓	✓
	SurroundSupervisor	✓	✓	✓	✓	



### FOCUSING ON SPEECH

GOAL: Distracting noises filtered out, with focus directed towards speech

NEW	Dynamic SpeechBeam with Intelligent NoiseReduction	✓				
NEW	SpeechBeam with Intelligent NoiseReduction		✓			
	ConversationOptimizer	✓				
	ConversationBoost	✓	✓	✓		
	ConversationLift	✓	✓	✓	✓	✓
	SoundRestore	✓	✓	✓	✓	✓



### LOCALIZATION OF ACOUSTIC SIGNALS

GOAL: Localization of sound sources for a multidimensional hearing experience

SphereSound Natural	✓				
SphereSound	✓	✓	✓		

\* AutoMicrophone

Performance Levels	9 First	7 Business	5 Comfort	3 Economy	1 Lower Economy
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### COMFORT IN NOISE

GOAL: Suppressing interfering noise for more comfort

NoiseReduction	✓	✓	✓	✓	✓
Sound Impulse Manager			✓		
Active Wind Block			✓		
FeedbackManager			✓		
Tinnitus Manager			✓		



### PERSONALIZED ADJUSTMENTS

GOAL: Continuous adaptation to the acoustic environment for optimal signal processing

UPDATED	Channels (G/AGC)	20	20	16	12	12
	FocussedFit	✓	✓	✓	✓	✓
	Intelligent Acclimatization	✓	✓	✓	✓	✓
	DataLogging	✓	✓	✓	✓	✓
NEW	Lifestyle Analyzer			✓		



### WIRELESS CONNECTIVITY

GOAL: Quick and intuitive connectivity options with smart multimedia solutions

	Made for all phones		✓		
	PhoneConnect		✓		
	BiLink		✓		
	BiPhone		✓		
UPDATED	Handsfree Bluetooth® phone calls		✓		
	Bluetooth® media streaming		✓		
	TV Connector		✓		
	PartnerMic		✓		
	Remote Control		✓		
	RogerDirect™		✓		
UPDATED	stream remote App		✓		



EXPLORE NEW GALAXIES OF HEARING.

# EVERY DAY!

With STRATOS, we are launching into a new dimension of listening. Stronger performance, more connectivity features and even easier handling make these new hearing aids heroes of everyday life.

**Support your clients on their journey  
to a new hearing experience.**

Equipped  
for everyday  
life!





HANSATON is the exclusive brand for you and your clients since 1957.

We focus on personal relationships and your success.

Our German heritage, combined with the innovative power of Sonova, enables us to create beautifully designed products, based on cutting-edge, proven technology.

**[hansaton.com](https://hansaton.com)**