

### About Signia Stretta

Signia Stretta is a brand of hearing aids, accessories and software developed to be the the most effective and efficient solution for demanding national healthcare systems to providing **better hearing care**. Audiologically proven, advanced technology, that is easy to use, makes them most effective for patients. Ease and effectiveness of fitting, and value for money pricing, makes them the most efficient use of resources for the system.

**Signia Stretta, for better hearing care.**

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\*\* Data on file

\*\*\* Study conducted at the University of Northern Colorado, 2015, examined the effectiveness of new Signia features by collecting and analysing ongoing EEG data while subjects performed speech testing.

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Information for Public Sector Audiologists



**Signia Stretta**  
is effective for patients,  
and efficient for you



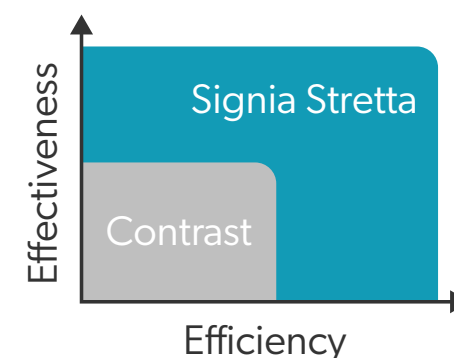
signia



# Removing barriers to acceptance and usage

The Signia Stretta range of hearing aids are developed especially for the Public Sector, designed to be the effective and efficient solution to improve patients hearing and satisfaction.

By utilising audiologicaly proven and advanced technology (that is easy to use) Signia Stretta hearing aids ensure patients can take full advantage of the extensive features available. For Audiologists, specialised tools help ensure ease of fitting, while favorable pricing makes for a highly efficient and audiologicaly desirable solution.



Building on the foundations of Contrast, Signia Stretta hearing aids aim to reduce the barriers to patient acceptance and ongoing usage. Own Voice Processing™ (OVP) vastly improves the wearers' perception of their own voice, making it sound more natural and comfortable to listen to. Alongside this, Advanced Soundscape Processing works to produce excellent spatial awareness – even in noisy environments, so patients can better interact with the world around them.

These features, combined with the ability to remotely fine-tune hearing aid settings, vastly improve patient hearing satisfaction and increase acceptance rates in the critical initial period after fitting – reducing the number of repeat visits and improving overall department efficiency.

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# Audiologically proven. Advanced technology. Easy to use.

The sophisticated chip technology inside Signia Stretta hearing aids enables a high-level of performance. Advanced technology includes; wireless connectivity, Ultra HD e2e and Bluetooth. Stretta RIC, M, HP, M-R, and UP-R cover a wide range of hearing loss applications – and are much smaller and more attractive than their predecessors!

The addition of OVP provides patients with a more realistic impression of their own voice, improving overall listening comfort. TeleCare 3.0 provides Audiologists with remote tools to refine hearing aid settings, improving acceptance rates in the critical initial period after the initial fitting.

## The Signia Stretta portfolio



# Key features overview

Features	Information
Audiology	
Own Voice Processing™ (OVP)	OVP utilises real-time recognition of the wearer’s voice to deliver a natural own-voice impression.Available across all Signia Stretta devices.
3D Classifier	Unlike conventional classification systems which rely on acoustic data, 3D Classifier analyses multi-dimensional information from the wearer’s environment and communication behavior. Information on the wearer’s voice activity, motion state and acoustic data are used to tailor the hearing aids’ response to the wearer’s needs.
Sound Clarity	Sound Clarity provides life-like sound which covers the spectrum of wearing situations. Sound clarity is achieved with features such as: HD Spatial, extended dynamic range, HD Music, eWindScreen™, speech and noise management and feedback cancellation.
Speech Quality	Speech Quality delivers improved understanding of other people’s voices in noise by using an exclusive technology called Ultra HD e2e. Features which utilise Ultra HD e2e include narrow directionality, Spatial SpeechFocus™ and TwinPhone.
Connectivity	
Direct Streaming	Signia Stretta hearing aids can be connected directly to Apple devices for phone calls and audio streaming – without additional accessories. With the StreamLine Mic accessory, direct streaming is possible also from Android devices and other Bluetooth mobile devices. With the StreamLine TV accessory, high-quality stereo sound can be streamed directly to Signia Stretta hearing aids.
You Adjust	Technically inclined wearers often appreciate having additional control over their hearing aids. Signia Stretta hearing aids offer such wearers a comprehensive range of adjustment options via the Signia app.
Remote hearing care	
TeleCare	TeleCare provides remote services including tools that allow contact with patients throughout their hearing journey. This may include a pre-appointment consultation or a post-fitting check up. TeleCare contributes to a more successful acclimatisation phase and ensures higher departmental flexibility – designed to boost efficiency and reduce unnecessary footfall in clinic. In addition, patient engagement and autonomy during this whole journey will be further increased via the Signia app – and for patients who are fitted with the UP-R, that added benefit of the Signia Assistant.
Signia Assistant¹	The Signia Assistant offers wearers instant 24/7 support and troubleshooting around the clock. It also provides Audiologists with detailed information in Connexx to address each patients fine-tuning needs, more precisely than ever before.

¹ only available for Stretta UP-R





# Features in detail

## Own Voice Processing™ (OVP) – Giving patients a realistic impression of their own voice

### The issue

As Public Sector Audiologists, we strive to provide hearing aid users with sound quality that gives an accurate impression of the world around them. Overall audibility and a natural sounding own voice are essential for first fit acceptance. Every patient experiences a change in the sound of their own voice, but many are 'put-off' by the way their own voice sounds when they wear a hearing device. This is particularly apparent with first-time users and wearers with a mild or moderate hearing loss, who really seem to struggle with this perceived occlusion effect. Any such negative perception heavily affects acceptance and often leads to the rejection of hearing aids.



### The solution

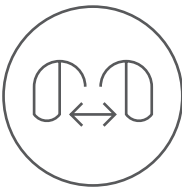
In an attempt to resolve the own voice issue, Audiologists can reduce gain and open the venting, reducing audibility and speech understanding in noise. No matter what attempts are made, the result is ultimately a compromise between sound quality and overall audibility. This widely acknowledged problem has been considered unresolvable.

Signia Stretta, provides an innovative solution to the own voice issue. It delivers unsurpassed first fit acceptance by combining uncompromised audibility with a natural sounding own voice.

### The benefits

OVP improves spontaneous acceptance of own voice by 75% of dissatisfied hearing aid wearers.\*\* The revolutionary own-voice reproduction provided by Signia Stretta is based on its leading Ultra HD e2e binaural link. Its continuous full-bandwidth audio exchange enables dynamic scanning and processing of the wearer’s own voice completely independently from all other sounds, including all other voices. This allows Audiologists to fine-tune the hearing aids for optimal audibility of the entire acoustic environment without having to compromise this audibility to improve the sound quality of the wearer’s own voice.

In this way, Signia Stretta with OVP benefits all hearing aid wearers. It provides an accurate hearing experience to deliver the highest sound quality and releases the hearing aid’s full potential for best hearing performance in any situation, even in very noisy environments.



#### Continuous Binaural Link

Ultra HD e2e now works as an always-on binaural audio link, harnessing binaural beam forming technology to offer the advanced and unique feature of OVP that works seamlessly in the universal program.



#### Industry Leading Own Voice Detection

Through its highly precise microphone network Signia Stretta reliably identifies the users own voice due to its unique spatial sound path. This allows the instruments to further understand the users listening needs and intuitively apply its advanced dual-sound processing.



#### Dual-Sound Processing

Signia Stretta's dual processing allows for independent processing of both the soundscape as well as the users own voice. This meaning users can benefit from the most natural sounding own voice without compromising audibility in all situations.

### OVP - how it works

The natural hearing experience of Signia Stretta is only possible by processing the sound of the hearing aid wearer’s own voice completely independently from all other voices and sounds.

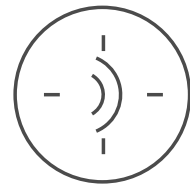
The key to OVP is thanks to the upgraded continuous full-bandwidth binaural link, Ultra HD e2e. It now also powers beam-forming technology to create a precise scanning beam that identifies the individual sound path of the wearer’s voice as it travels to the hearing aids. This level of precision is only possible with this fully integrated silicon microphone network.

Ultra HD e2e enables instantaneous and continuous dynamic own voice detection and patented dual processing of the own voice and the remaining soundscape. Signia Stretta therefore provides the most natural own voice as well as improved speech understanding in noise.



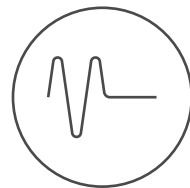
# Features in detail

## Advanced Soundscape Processing – Better speech understanding in noise



Beyond the wearer's experience of a natural own voice, Ultra HD e2e also powers binaural beam-forming technology to provide clear speech understanding and a natural experience in all situations, even in the loudest environments. Advanced algorithms enable precise spatial awareness.

Hearing aid wearers can now benefit from a spatially open experience with all the benefits of our directionality. For crystal clear sound, our extended dynamic range with an incredible 113 dB maximum input delivers excellent signal quality in loud environments. Additionally, the powerful new feedback canceller provides the highest stable gain to protect signal quality. The whole system is steered by Signia Stretta's unique 3D Classifier which ensures OVP and work in perfect harmony to give an accurate impression of the world.

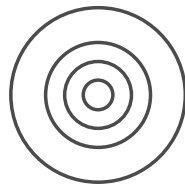


### Clear Sound Without Distortion

Our extended dynamic range is now available universally across all programs. In loud situations, the full range of analog soundwaves are smoothly converted into digital signals for a natural experience.

### Advanced Feedback Cancellation

Highest feedback stability provides outstanding flexibility when fitting the hearing aids. The feedback canceller maintains optimal signal quality for a comfortable, natural experience.



### Improved Spatial Awareness

HD Spatial algorithms replicate the way we naturally localise sound. This applies to all environments, even very noisy ones.\*\*



### 3D Classifier

A unique classifier adapting to patients' changing needs depending on their environment, whether they are moving or stationary, and whether they are speaking or listening. Signia Stretta uses acoustic, motion and voice detection to automatically orchestrate all hearing aid features in a way that mimics the natural hearing function.

## Wireless connectivity – More freedom to hear



Today's hearing aid wearers expect the highest hearing performance and seamless connectivity to help them hear in a modern world.

Signia Stretta combines the most advanced connectivity technologies to deliver a natural sounding own voice and uncompromised audibility with direct streaming. Signia Stretta offers a system that combines Bluetooth and Ultra HD e2e thanks to its high energy efficiency. Ultra HD e2e enables multiple unique audiological features. It is the continuous full-bandwidth binaural link that delivers the most natural hearing experience, unlike basic e2e wireless systems, allowing us to deliver our patented OVP. Our 2.4 GHz Bluetooth technology delivers audio streaming from smartphones and TV. Finally, our advanced laser edge antenna enables the small-size of the hearing aids, with this special combination of wireless technology.

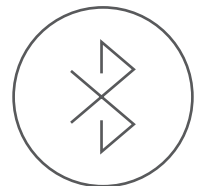


### Ultra HD e2e Binaural Link

Continuous audio processing and data exchange between the hearing aids enables unrivaled performance with OVP.\*\*

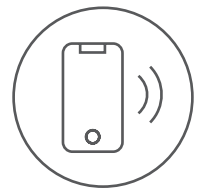
### The Unique Signia TeleLink

Acoustic connectivity system allows users to benefit from the Signia app when other wireless systems cannot be used e.g. during airplane mode. It also provides remote control with our discreet miniPocket accessory.



### 2.4 GHz Bluetooth For Audio Streaming

Direct streaming of phone calls and music from iPhone plus audio streaming from all other Bluetooth smartphones and TV via StreamLine Mic and StreamLine TV.



### Signia App

Available on both iOS and Android Smartphones the Signia app allows patients enhanced and autonomous controls using the connection directly with their mobile phone.



# Signia Stretta – portfolio overview



**RIC**

Small and fully featured

ULTRA HD E2E

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL



**M**

Most versatile fitting options

ULTRA HD E2E

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL



**M-R**

Rechargeable hearing power

Li-Ion RECHARGE

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL



**HP**

Powerful and functional

ULTRA HD E2E

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL



**UP-R**

Superpower your hearing

Li-Ion RECHARGE


MOTION SENSOR

OWN VOICE PROCESSING OVP

HD SPATIAL

# Accessory overview

## Charging stations



M-R and UP-R feature Lithium-Ion rechargeability for a hassle-free hearing experience and long-lasting power.

## Streamers



**StreamLine TV**  
Via StreamLine TV, TV sound can be fed directly into Bluetooth-equipped hearing aids. You can even adjust the TV volume individually via the Signia app.



**StreamLine Mic**  
StreamLine Mic transforms your Bluetooth enabled devices into more than state-of-the-art hearing aids. They also become hands-free mobile headsets and wireless stereo headphones that stream highest quality audio into both ears from any Bluetooth device. You can even adjust the streaming volume individually via the Signia app.

## Remote control



**miniPocket**  
Small enough to carry on a keyring, the miniPocket is the ideal solution for anyone who wants discreet, convenient hearing aid control without the need for a large remote control or smartphone.

# CROS/BiCROS

The wireless CROS solution is designed for people who have normal hearing in one ear and un-aidable hearing loss in the other. Sounds from the un-aidable side are received by the microphones of the Signia Stretta CROS, and wirelessly transmitted to the side with normal hearing.

The BiCROS solution is designed for people with un-aidable hearing loss in one ear and aidable hearing loss in the other. Sound from the un-aidable side is received by the Signia Stretta CROS and transmitted to the Signia Stretta hearing aid on the aidable ear. The Signia Stretta hearing aid delivers the combined and amplified sound from both devices.



# Small and fully featured – with direct streaming

ULTRA HD E2E

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL

- Colours
- Pearl White
  - Silver
  - Dark Champagne
  - Beige
  - Grey
  - Sandy Brown
  - Granite
  - Deep Brown
  - Black

## Stretta RIC

The Signia Stretta RIC keeps the patient's own voice and surrounding soundscape in perfect balance. This way, it offers a vastly improved impression of the wearers' own voice, as well as clear speech understanding in noise in a small, elegant housing. Despite its discreet design, this tiny RIC provides supreme connectivity via Bluetooth-based direct streaming and the Signia app\*. Plus, TeleCare allows patients to enjoy full live remote support and fast, smooth appointments – outside of the clinic.

\* For Android and iOS.


Receiver type	miniReceiver 2.0 S	miniReceiver 2.0 M	miniReceiver 2.0 P	miniReceiver 2.0 HP
				
Performance				
Matrix (2 ccm)	45/108 dB	60/119dB	70/124 dB	75/130 dB
Battery				
Size	312	312	312	312
Power consumption	1.2 mA	1.4 mA	1.3 mA	1.3 mA

Key features


- OVP for improved perception of the wearers' own voice
- Small, discreet design
- TeleCare
- Remote Control
- Connectivity & Streaming




Signia app ready




Equipped with Bluetooth



Compatible with CROS device for people with un-aidable hearing loss on one side



StreamLine TV  
With StreamLine TV, the TV signal is directly streamed into the wearer's hearing aids.



StreamLine Mic  
The StreamLine Mic enables hands-free audio streaming (phone calls, music, etc.) from any device with Bluetooth connectivity.

# Direct streaming with the most versatile fitting options

ULTRA HD E2E

OWN VOICE PROCESSING OVP


3D CLASSIFIER

HD SPATIAL

- Colours
- Pearl White
  - Silver
  - Dark Champagne
  - Beige
  - Grey
  - Sandy Brown
  - Granite
  - Deep Brown
  - Black

## Stretta M and M/T

The incredibly versatile Signia Stretta M is an ideal BTE for wearers with individual fitting requirements and a moderate, to severe hearing loss. It harmonises the patient's voice and surrounding sounds, providing a realistic perception of the patients' own voice and improved speech understanding in noise. Stretta M provides full Bluetooth connectivity and Signia TeleCare with an optional modular T-coil integrated in the battery door.

Receiver type		
Performance		
Matrix (2 ccm)	ThinTube 56/126 dB Earhook 63/134 dB	
Battery		
Size	13	
Power consumption	1.4 - 2.0 mA	

Key features

- OVP for improved perception of the wearers' own voice
- TeleCare
- Remote Control
- Connectivity & Streaming



Signia app ready




Equipped with Bluetooth




Available as T-coil version



Compatible with CROS device for people with un-aidable hearing loss on one side



StreamLine TV  
With StreamLine TV, the TV signal is directly streamed into the wearer's hearing aids.



StreamLine Mic  
The StreamLine Mic enables hands-free audio streaming (phone calls, music, etc.) from any device with Bluetooth connectivity.



# Rechargeable hearing power

Li-Ion RECHARGE

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL

- Colours
- Pearl White
  - Silver
  - Dark Champagne
  - Beige
  - Grey
  - Sandy Brown
  - Granite
  - Deep Brown
  - Black



**Charging station**  
Lithium-ion rechargeability for a hassle-free hearing experience and long-lasting power.

Key features

- Rechargeable lithium-ion power cell
- Long-lasting high quality audio streaming
- TeleCare
- Remote Control
- Connectivity & Streaming

- Signia app ready
- Rechargeable
- Equipped with Bluetooth
- Compatible with CROS device for people with un-aidable hearing loss on one side



**StreamLine TV**  
With StreamLine TV, the TV signal is directly streamed into the wearer's hearing aids.



**StreamLine Mic**  
The StreamLine Mic enables hands-free audio streaming (phone calls, music, etc.) from any device with Bluetooth connectivity.

## Stretta M-R

The Signia Stretta M-R combines all the advantages of Li-ion powered wireless rechargeability and seamless Bluetooth connectivity in a compact and desirable design. Intuitive to handle, the outstanding sound quality, convenient streaming options, and easy fittings make Stretta M-R the optimal solution for almost any customer.



Performance	
Matrix (2 ccm)	ThinTube 56/126 dB Earhook 63/134 dB
Battery	
Type	Lithium-ion power cell
Battery runtime	21h without streaming – 19h with 5h streaming

# Powerful and functional

ULTRA HD E2E

OWN VOICE PROCESSING OVP

3D CLASSIFIER

HD SPATIAL

- Colours
- Pearl White
  - Silver
  - Dark Champagne
  - Beige
  - Grey
  - Sandy Brown
  - Granite
  - Deep Brown
  - Black



**StreamLine TV**  
With StreamLine TV, the TV signal is directly streamed into the wearer's hearing aids.



**StreamLine Mic**  
The StreamLine Mic enables hands-free audio streaming (phone calls, music, etc.) from any device with Bluetooth connectivity.

Key features

- OVP for improved perception of the wearers' own voice
- TeleCare
- Remote Control
- Connectivity & Streaming

- Signia app ready
- Equipped with Bluetooth
- Available as T-coil version
- Compatible with CROS device for people with un-aidable hearing loss on one side

## Stretta HP and HP/T

The Signia Stretta HP is an ideal BTE for wearers with moderate to severe (or even profound) hearing loss. This powerful device harmonises the wearer's voice and surrounding sounds, providing a realistic perception of the wearers' own voice and improved speech understanding in noise. The Stretta HP provides full Bluetooth connectivity and Signia TeleCare with an optional modular T-coil integrated in the battery door.



Performance	
Matrix (2 ccm)	ThinTube 65/130 dB Earhook 77/135 dB
Battery	
Size	13
Power consumption	1.7 – 2.0 mA





# Additional features to superpower your hearing



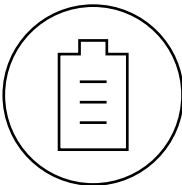
### YourSound Technology

Redesigned acoustic sensors plus an integrated motion sensor provide detailed information about where the wearers are and what they are doing. Dynamic Soundscape Processing and OVP process this information delivering the most clear and personalised sound.



### Dynamic Soundscape Processing (integrated Motion Sensor)

Today's hearing aids analyse hearing situations solely on acoustic criteria, then classify them into a small range of pre-defined "acoustic environments". When people rely on their senses to keep them safe and sound, hearing clearly in every situation is a must – especially when they're on the job and moving through the day, where environments can change quickly. Stretta UP-R hearing aids use proven Motion Sensor technology to automatically recognise and adapt to more hearing situations than ever before. This ensures users automatically hear speech clearer and get the most reliable understanding of their environment.



### Rechargeability

UP-R features a rechargeable Lithium-Ion battery that provides up to 57 hours of usage including 5 hours of Bluetooth streaming. To charge the hearing aid just put it in the Charging Station (B-HP) for 4 hours.

# Superpower your hearing

Li-Ion  
RECHARGE

MOTION  
SENSOR

OWN  
VOICE  
PROCESSING  
OVP

HD  
SPATIAL



- Colours
- Pearl White
  - Silver Hero
  - Dark Champagne
  - Beige
  - Grey
  - Sandy Brown
  - Granite
  - Deep Brown
  - Black



**Charging station**  
Lithium-Ion rechargeability for a hassle-free hearing experience and long-lasting power.



**StreamLine TV**  
With StreamLine TV, the TV signal is directly streamed into the wearer's hearing aids.



**StreamLine Mic**  
The StreamLine Mic enables hands-free audio streaming (phone calls, music, etc.) from any device with Bluetooth connectivity.

- Key features**
- Improved speech understanding in noise, even when the wearer is in motion
  - Improved perception of wearers' own voice
  - Integrated acoustic-motion sensors
  - Long-lasting high quality audio streaming
  - TeleCare
  - Remote Control
  - Connectivity & Streaming with StreamLine and Smart Transmitter
- Signia app ready

Equipped with Bluetooth

Rechargeable

Integrated T-Coil

## UP-R

The Signia Stretta UP-R combines an ultra-power BTE device with rechargeable technology. The innovative device is the complete package for those who want to take full advantage of advanced motion technology despite severe to profound hearing loss. With Bluetooth connectivity, Li-ion rechargeability and telecoil, it offers a world of new hearing and handling possibilities not familiar to those with conventional UP devices.



Performance	
Matrix (2 ccm)	82 dB/140 dB SPL
Battery	
Type	Lithium-ion power cell
Battery runtime	61h without streaming – 57h with 5h streaming



# TeleCare 3.0

## Remote hearing care

Public Sector Audiologists strive to find the best fitting and fine-tuning for their patients. Finding the optimal settings in the controlled environment of a clinic is one thing – but how do we ensure that patients benefit from the most natural hearing experience in their daily lives?

Signia TeleCare keeps hearing aid trials on track and can help to drive the conversion of patients with hearing loss to satisfied customers. The new TeleCare 3.0 introduces full live remote tuning so professionals can fine-tune patients’ hearing aids in the real-life situations for which they are intended. Accordingly, they benefit from instant feedback to improve the fitting ‘on the spot’ much like a virtual home visit. In combination with its unique guided assistance (available with UP-R) and communication via CareChat, TeleCare 3.0 saves time for hearing care professionals and their patients and raises the quality of care.



### The Smart Patient Care App

The virtual home visit is available for all patients with an iOS or Android device via the Signia app. In addition to guiding them through the trial process, the app serves for UP-R as the hearing care professional in their pocket, with them every step of the way.

### Introducing The Virtual Home Visit

After the personal first fitting at the clinic, follow-up appointments can be held online via video call. This allows audiology professionals to adjust the hearing aids for the most natural individual sound quality in real time and at the patient’s convenience to keep the trial on track.



## Connexx



### Remote Fitting in Natural Situations

TeleCare 3.0 enables use of the most powerful fitting software, Connexx™, fully remotely from a PC or laptop. Offering full live remote tuning and video call, Connexx is synchronised with the TeleCare portal for support in patients’ natural surroundings.

