

REPLICATING NATURE.

Signia Nx with OVP™ for the most natural own voice and highest acceptance.

NEW



signia-pro.com

Hearing
Systems

SIEMENS

THE OWN VOICE ISSUE, AN UNNATURAL SOUND.

As hearing care professionals, we strive to provide hearing aid users with sound quality that replicates what nature intended. Overall audibility and a natural sounding own voice are essential for first fit acceptance. Yet many hearing aid wearers do not like the sound of their own voice.

Every hearing aid wearer experiences a change in the sound of their own voice. Especially first time users and wearers with a mild or moderate hearing loss struggle with this perceived occlusion effect. Any such negative perception heavily affects acceptance and often leads to the rejection of hearing aids.

In an attempt to resolve the own voice issue, hearing care professionals can reduce gain and open the venting, reducing audibility and speech understanding in noise. Whatever they do, the result is a compromise between sound quality and overall audibility.

Until today, this widely acknowledged problem has been considered unresolvable.

Professional:
**HOW DOES
YOUR OWN
VOICE
SOUND?**

Patient:
**IT SOUNDS
LOUD AND
UNNATURAL!**

SIGNIA Nx WITH OVP™

FOR THE MOST NATURAL OWN VOICE
AND HIGHEST ACCEPTANCE.



Signia Nx, the world's most advanced hearing aid platform, provides the first genuine solution to the own voice issue. It delivers unsurpassed first fit acceptance by combining uncompromised audibility with a natural sounding own voice.

The world's first Own Voice Processing (OVP™) improves spontaneous acceptance of own voice by 75% of dissatisfied hearing aid wearers.*

The revolutionary natural sounding own voice provided by Signia Nx 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 hearing care professionals 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 Nx with OVP™ benefits all hearing aid wearers. It replicates the natural 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.

* See legal note on final page of this document.



THE WORLD'S FIRST NATURAL OWN VOICE, BASED ON THE LEADING BINAURAL LINK.

The revolutionary natural experience of Signia Nx 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 our 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 the **new fully integrated silicone 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 Nx thereby provides the most natural own voice as well as the best speech understanding in noise.

ULTRA HD e2e

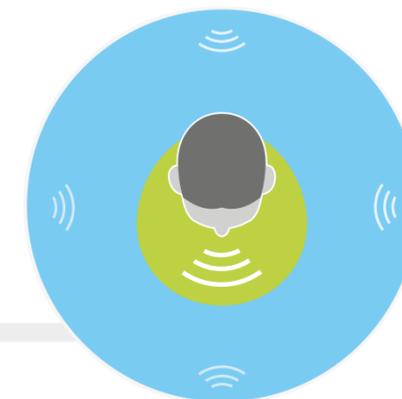
CONTINUOUS BINAURAL LINK

For the most natural experience, our **Ultra HD e2e** always-on ear-to-ear (e2e) link now also harnesses binaural beam-forming technology to scan precisely for the wearer's own voice.

OWN VOICE PROCESSING OVP

FIRST EVER OWN VOICE DETECTION

The **highly precise new microphone network** identifies the wearer's own voice reliably due to its unique spatial sound path. The continuous binaural link ensures dynamic detection in all situations.



OWN VOICE PROCESSING



DUAL PROCESSING



REVOLUTIONARY DUAL PROCESSING

Signia Nx is the first platform to process the own voice instantly and completely independently from all other voices and sounds, combining a **natural sounding own voice** with **uncompromised audibility** for a natural overall experience.

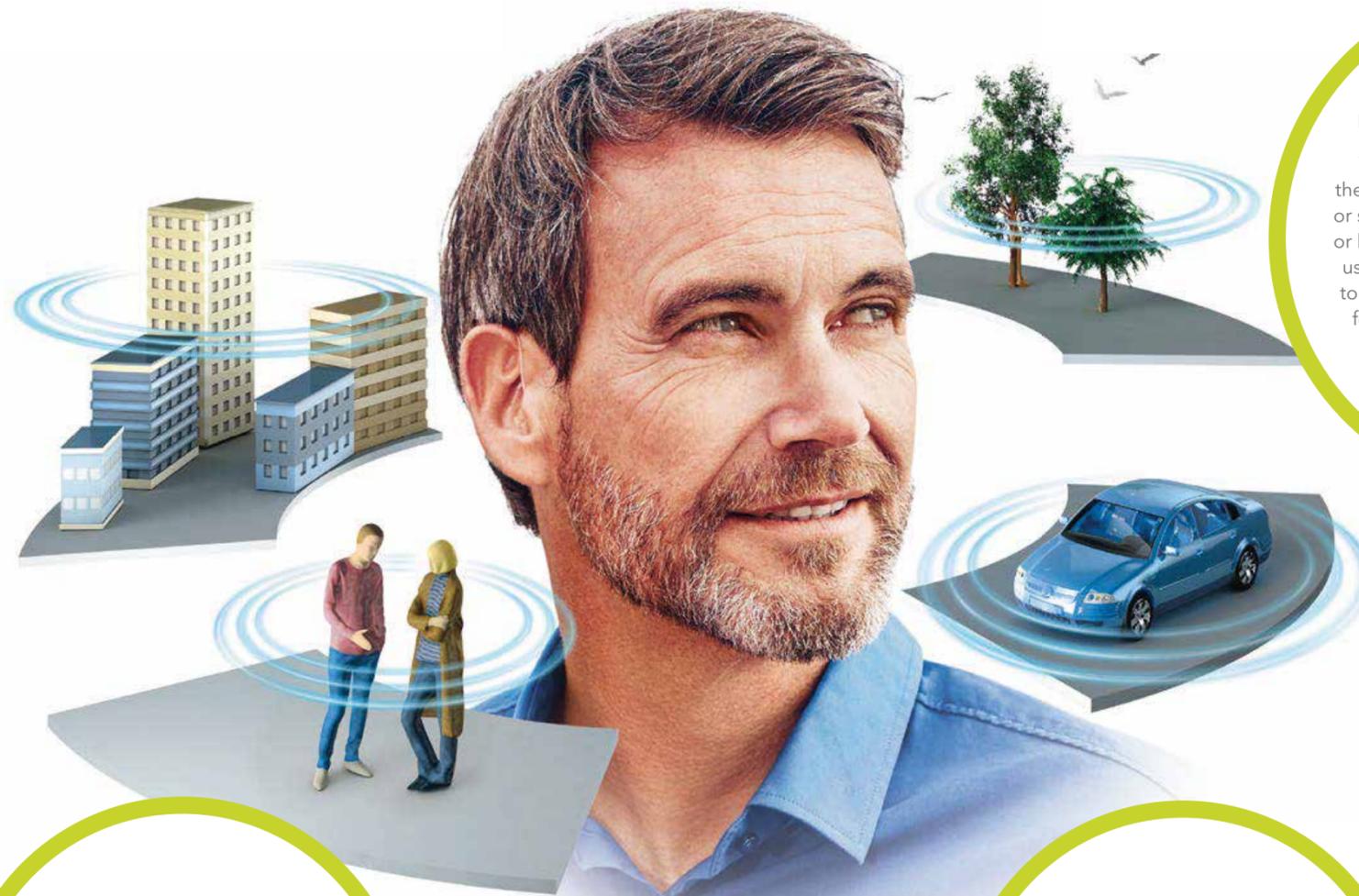
THE MOST ADVANCED SOUNDSCAPE PROCESSING IN THE INDUSTRY, SUPERIOR SPEECH UNDERSTANDING IN NOISE.

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 the loudest.

New algorithms enable the **most precise spatial awareness**. Hearing aid wearers can now get an uncompromised spatially open experience with all the benefits of **directionality**.

For crystal clear sound, our **extended dynamic range** with an incredible 113 dB maximum input delivers excellent signal quality in loud environments. And the powerful new feedback canceller provides the highest stable gain to protect signal quality - artifact-free.

The whole system is steered by Signia's unique classifier which ensures OVP™ and soundscape processing work in perfect harmony to replicate the experience of natural hearing.



UNIQUE CLASSIFICATION

Wearers' needs change depending on their environment, whether they are moving or stationary, and whether they are speaking or listening. Signia Nx is the only system that uses **acoustic, motion and voice detection** to automatically orchestrate all hearing aid features to replicate the wearer's natural hearing behavior.

UNRIVALED SPATIAL AWARENESS

A breakthrough in sound quality, our **new HD Spatial algorithms** replicate the natural way we localize sound. This applies to all environments, even very noisy ones in which users enjoy "better than normal hearing".**

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. With no artifacts, the feedback canceller maintains optimal signal quality for a comfortable, natural experience.

** See legal note on final page of this document.

SUPERIOR HEARING PLUS BLUETOOTH, A UNIQUE COMBINATION IN THE INDUSTRY.

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

Only Signia hearing aids combine the most advanced connectivity technologies to deliver a natural sounding own voice and uncompromised audibility with direct streaming.

Signia Nx offers **the only wireless system combining 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 and sets Signia Nx apart from other manufacturers' basic e2e wireless systems. Only Ultra HD e2e allows us to deliver our patented OVP™ and "better than normal hearing".**

Our 2.4 GHz Bluetooth technology delivers the highest quality audio streaming from smartphones and TV. And our advanced **laser edge antenna** enables the smallest sized hearing aid with this special combination of wireless technologies.

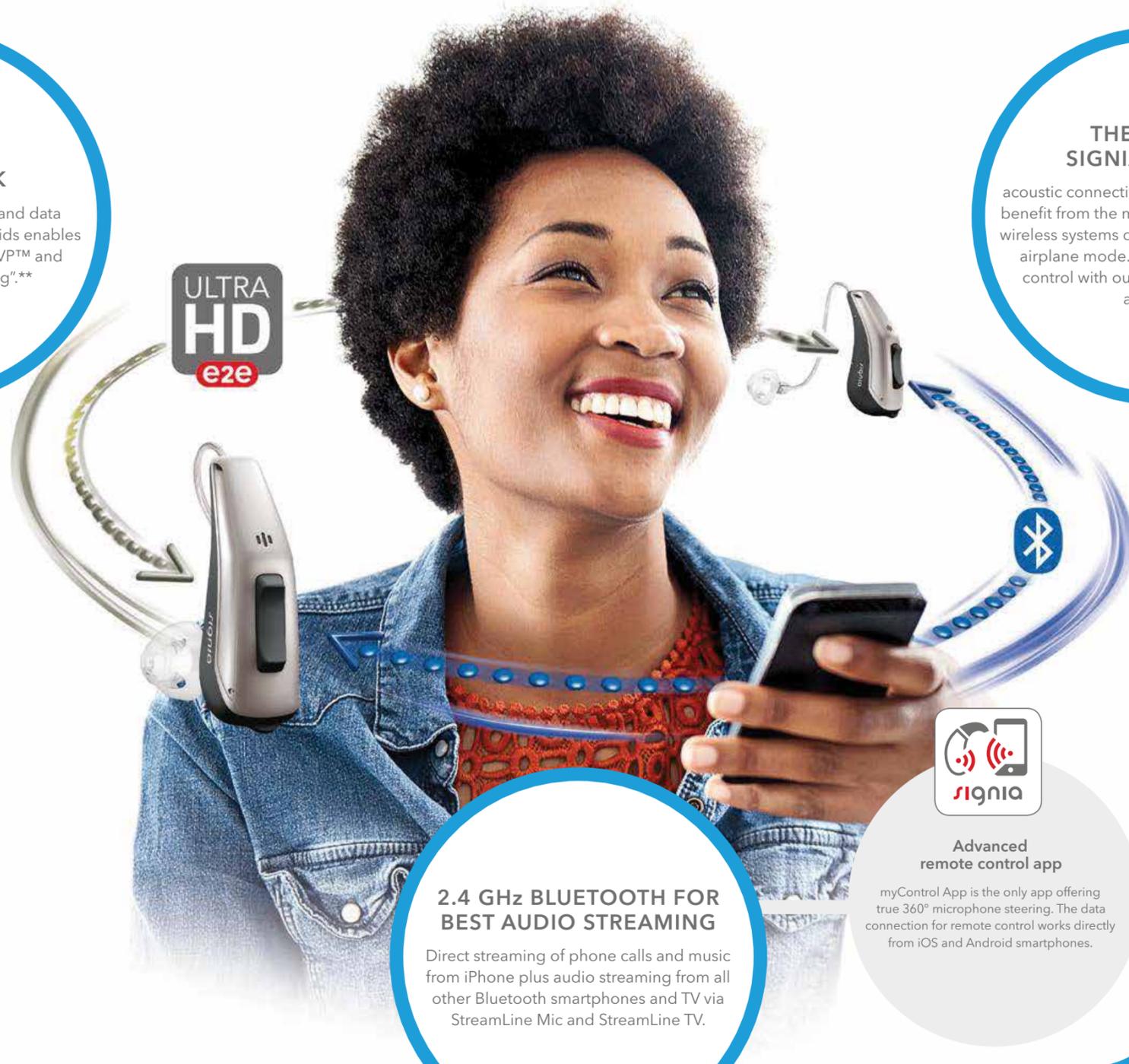
** See legal note on final page of this document.

ULTRA HD e2e BINAURAL LINK

Continuous audio processing and data exchange between the hearing aids enables unrivaled performance with OVP™ and "better than normal hearing".**

THE UNIQUE SIGNIA TELELINK

acoustic connectivity system allows users to benefit from the myControl 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 BEST 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.



Advanced remote control app

myControl App is the only app offering true 360° microphone steering. The data connection for remote control works directly from iOS and Android smartphones.

SIGNIA TELECARE, REVOLUTIONARY REMOTE HEARING CARE.

Hearing care professionals strive to find the best fitting and fine-tuning for their patients. Finding the optimal settings in the controlled environment of a practice is one thing - but how to ensure that patients benefit from the most natural hearing experience in their daily lives?

Signia TeleCare keeps hearing aid trials on track and drives 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. They thus benefit from instant feedback to improve the fitting on the spot, much like a **virtual home visit.**

In combination with its unique guided assistance and communication via CareChat, TeleCare 3.0 saves time for hearing care professionals and their patients and raises the quality of care.

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 synchronized with the TeleCare portal for support in patients' natural surroundings.

INTRODUCING THE VIRTUAL HOME VISIT

After the personal first fitting at the practice, follow-up appointments can be held online via video call. This allows 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.

THE SMARTEST PATIENT CARE APP

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



* CES Innovation Awards 2017 Honoree



SIGNIA Nx PRODUCT PORTFOLIO.

PURE 312 Nx

The smallest fully featured hearing aid with direct streaming.

This elegant new hearing aid is the ideal solution for wearers who want high performance, full connectivity, and complete discretion. It features new state-of-the-art silicone microphone technology with 0.3 dB matching to support our binaural integration, enabling OVP™ and HD Spatial. The unique laser edge antenna design delivers the smallest possible size for direct streaming without compromising on the highest hearing performance with Ultra HD e2e.

- New silicone microphones
- Laser edge antenna

Performance levels: 7Nx 5Nx 3Nx



PURE 13 Nx

Superior connectivity combined with the longest streaming time.

With its high capacity 13-size battery, the high performance Pure™ 13 Nx delivers the longest streaming time in its class so the wearer does not need to worry about battery life while enjoying the most energy-efficient direct streaming and connectivity.

- New silicone microphones

Performance levels: 7Nx 5Nx 3Nx



myControl App

Advanced remote control app.

The myControl App offers full remote control options with 360° microphone steering. Users can adjust program and volume, system sounds, power on delay, low battery interval, and airplane mode. The app also relays smartphone motion sensor data for precision hearing and displays noise exposure and voice activity, which are indicators of hearing health.

StreamLine Mic

Effortless connectivity for all smartphones.

The new StreamLine Mic - available from early 2018 - provides full hands-free audio streaming of phone calls and music with any Bluetooth smartphone. It also works as a remote microphone.



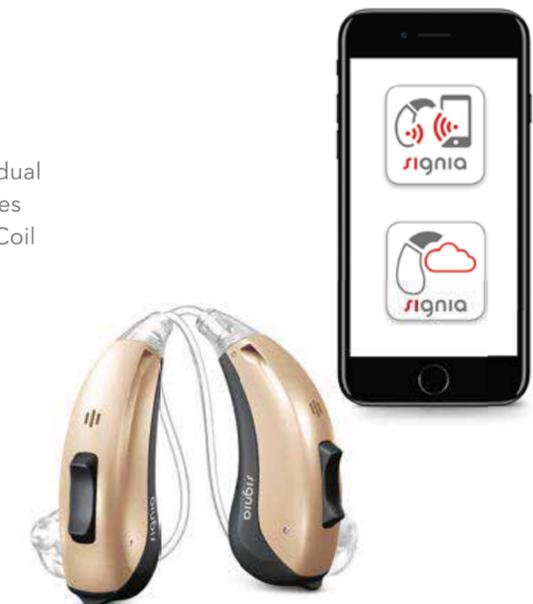
MOTION 13 Nx

Direct streaming with the most versatile fitting options.

The versatile new Motion™ 13 Nx is ideal for wearers with individual fitting requirements. This high-performance hearing aid provides full connectivity in a compact form with an optional modular T-Coil integrated in the battery door.

- New silicone microphones

Performance levels: 7Nx 5Nx 3Nx





REPLICATING SIGNIA Nx WITH OVP™ AND HIGHEST

NATURE, FOR THE MOST NATURAL OWN VOICE ACCEPTANCE.

**SIGNIA Nx
TECHNOLOGICAL
INNOVATIONS**

AUDIOLOGY:
The world's first Own Voice Processing (OVP™)

CONNECTIVITY:
The only combination of Bluetooth
and Ultra HD e2e, the leading binaural audio link

TELECARE:
Unprecedented full live remote tuning
capabilities

**BENEFITS
FOR THE HEARING CARE
PROFESSIONAL**

AUDIOLOGY:
Raise acceptance by providing a natural own voice
and "better than normal hearing".**

CONNECTIVITY:
Offer the best of both worlds - uncompromised
audiology and direct streaming in one device.

TELECARE:
Deliver revolutionary customer care by solving
issues remotely to keep the trial on track.

**BENEFITS
FOR THE HEARING AID
USER**

AUDIOLOGY:
Hear the world and your own voice as nature
intended.

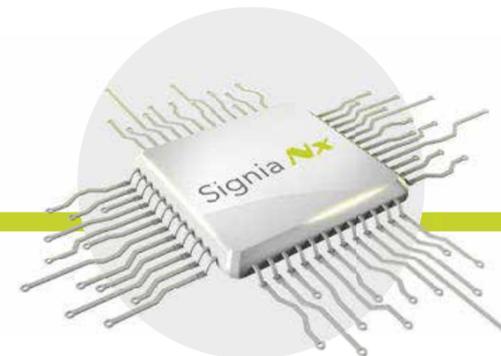
CONNECTIVITY:
Enjoy the most natural hearing experience and
Bluetooth streaming of phone calls, music, and TV.

TELECARE:
Access the best service anywhere with the hearing
care professional in your pocket.

NEW

The most sophisticated chip technology in the industry

- Ultra-small 40 nm technology - 40% smaller than industry standard
- 75 million transistors - 3.5x more than predecessor platform primax™
- Super-fast 500 MIPS processing power - 60% more than primax



NEW

Leading technology enabling advanced connectivity

- New age-resistant silicone microphones enable highly precise binaural beam-forming
- Advanced laser edge antenna enables the smallest sized hearing aid
with Ultra HD e2e and Bluetooth



** See legal note on final page of this document.

OUR COMPANY, THE FUTURE OF A SOUND LEGACY.



We invent the future of better hearing. This has been our consistent mission for 140 years and counting - the greatest legacy in the industry. As hearing aid pioneers, we have introduced countless world's firsts including completely digital hearing aids with two microphones, wireless synchronization, and now OVP™. We employ more than 5,000 people and sell to more than 120 countries across the globe, with Signia as our premium brand. Every fourth hearing aid worn around the world is one of ours.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

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* 2017 "First Fit Study" conducted at Hörzentrum Oldenburg examining the effect of own voice processing on spontaneous acceptance after first fit of hearing aids. Further details: www.signia-pro.com/first-fit-study.

** Two clinical studies have shown that binax provides better than normal hearing in certain demanding environments (University of Northern Colorado, 2014; Oldenburg Hörzentrum, 2013): Speech Reception Thresholds (SRT) in cocktail-party situations improved up to 2.9 dB for wearers with mild to moderate hearing loss using Carat binax™ or Pure binax™ hearing aids with narrow directionality, compared to people with normal hearing.

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Order No. 03276-99C1-7600 | Printed in Germany
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