

Audéo S



Brilliant design meets
Spice technology

3 Performance Levels. 3 Award-winning Designs.
3 Power Options.

PHONAK

life is on

3x3x3. All the CRT choices you will ever need.

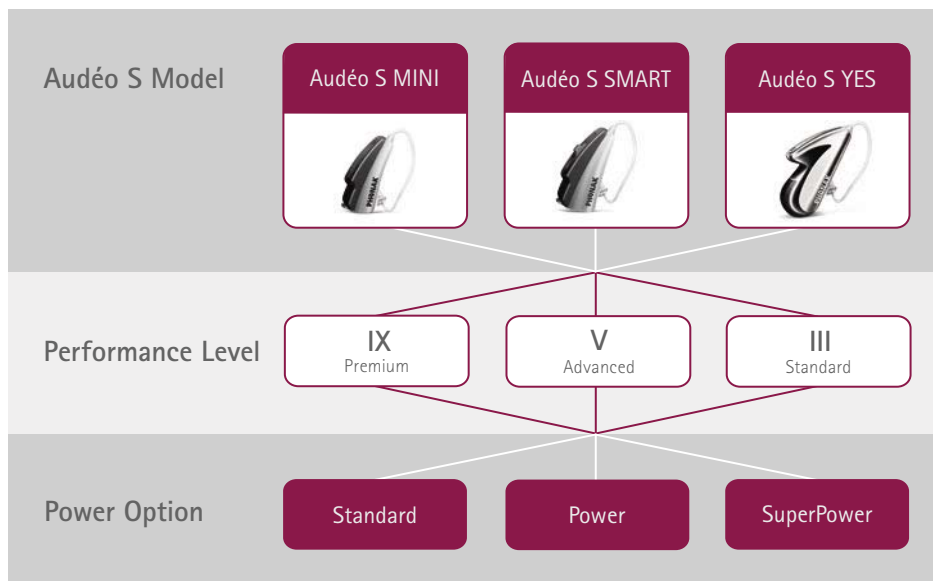


Brilliant design meets Spice technology

Audéo S fuses the industry's most brilliant, award-winning designs with the most sophisticated technology ever. In other words, we've spiced up the Audéo portfolio. Adding Spice Technology means Audéo S products offer an unparalleled range of applications, in the same astonishingly small, elegant housings you already know and appreciate, including the smallest Phonak ever.

To fulfill the diversity of client needs, Audéo S provides comprehensive yet straightforward choices. All three Audéo S models are available at three performance and price levels. What's more, there are now three external receiver options, Standard, Power and the new SuperPower. This simple 3x3 matrix gives you an amazing 27 possible configurations to suit every lifestyle and budget while accommodating a broad range of hearing losses.

Audéo S is the one choice that gives you all the choices.



Audéo S
one name,
three brilliant
designs

Audéo S MINI – tiny and automatic, wear and forget

Audéo S SMART – style, control and wireless freedom

Audéo S YES – avant-garde design and wireless freedom

There is hardware. There are Apps. Together, they make Audéo S superior.

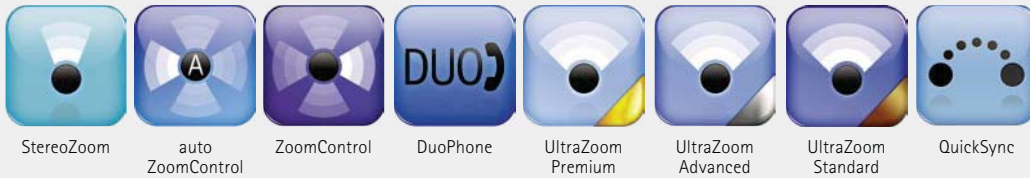
What sets apart the best of today's technology is ease of use and customization. This is achieved by creating specialized software applications, also known as Apps. The sophistication of Spice technology enabled the creation of an unrivalled range of Apps, which are the foundation of the Audéo S portfolio. By mixing and matching these, we have created distinctive Apps packages for leading performance in every price segment.



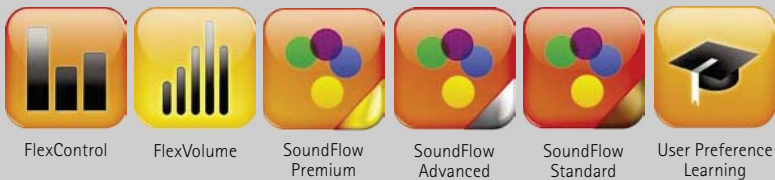
So simple – all the Apps for all the needs

We have clustered the Audéo S Apps into four key functional areas:

Binaural Directional Apps



Adaptive Intelligence Apps



Control and Connectivity Apps



Signature Apps



Binaural Apps – uniquely binaural, uniquely useful

Wireless technology has opened up a whole new world of possibilities. The foundation of binaural processing in Audéo S is the unique ability to stream the full bandwidth audio signal between hearing instruments in real time. With this technology we have created new solutions that truly enhance performance in the most challenging environments: extreme noise, when unable to face the speaker, and on the phone.



StereoZoom

Focuses on a single voice
in a noisy crowd

Enhanced focus

StereoZoom is the most significant innovation in binaural signal processing, further driving our long-standing technology leadership in directional beamforming. Since they all have a wide front focus, monaural directional systems do not sufficiently address the challenge of one-to-one communication in high levels of surrounding background noise. StereoZoom enables the wearer to narrow the beam further and focus on a single speaker, while suppressing all other interfering sounds. Communication even in situations which were considered impossible is now possible.

Full bandwidth audio streaming

StereoZoom employs exclusive wireless full bandwidth audio streaming and sophisticated

binaural processing technologies to create a bi-directional network of four microphones. StereoZoom simultaneously streams the full audio signal from one instrument to the other and vice versa. The ipsilateral and contralateral signals for each side are analyzed and processed in real time to create a very highly focused beam which effectively zooms in on a single voice.

Measurable benefit

StereoZoom significantly improves the directivity index across the entire frequency range, beyond a standard directional microphone. With its highly focused beam, StereoZoom is designed to perform best when the listening goal is to understand a single voice in a noisy crowd. In such situations, StereoZoom achieves a valuable additional improvement of up to 3 dB in signal-to-noise ratio.



auto ZoomControl

Automatic focus wherever speech comes from

The introduction of ZoomControl revolutionized directional hearing and set a benchmark for binaural processing. auto ZoomControl harnesses the power of our unique binaural processing. It automatically tracks and focuses on speech, regardless of the direction, without the need to face the speaker.

Once activated, auto ZoomControl automatically selects the direction (front, back, left or right) of the dominant speech source. When focusing to one side, the speech signal is picked up and amplified by the instrument on that side; simultaneously the entire signal is streamed to the other ear. As a result, the desired signal is heard in both ears, dramatically improving the signal-to-noise ratio. This unique feature provides natural binaural listening with all of its advantages.

Measurable benefit

Field study results show that compared to omnidirectional mode, ZoomControl provides an SNR improvement of 2–4 dB for signals coming from either side and an amazing 4–6 dB for signals coming from the back.



DuoPhone

Phone conversations are as easy as they should be

DuoPhone is yet another benchmark binaural App demonstrating the outstanding capabilities of our exclusive full audio transmission. As soon as the phone conversation starts, the signal is streamed in real time to the other ear, so the caller's voice is heard in both ears. The microphone of the receiving instrument is attenuated so background noise is reduced and SNR is significantly improved. The phone can be used with confidence and listening becomes enjoyable again.

Measurable benefit

Independent research using the Just Follow Conversation (JFC) Test has shown that users experienced, on the average, a 3 dB signal-to-noise ratio improvement with DuoPhone, compared to monaural aided phone use.





UltraZoom

Directional microphone technology reinvented

The foundation for our sophisticated binaural beamforming Apps is UltraZoom with SNR-Boost. It is the first and only dual microphone system to incorporate a unique spatial noise cancellation algorithm designed specifically for directional applications.

SNR-Boost

The key innovation of UltraZoom is SNR-Boost. SNR-Boost is a spatial noise canceller designed specifically for directional applications. Traditionally, regardless of microphone mode, the noise cancellation algorithm is always applied in the same conservative manner, based on temporal cues. However, when in directional mode, the source of interest is actually known, so a different approach can be applied. SNR-Boost uses spatial cues to distinguish between speech from the front and surrounding noise. With this clear distinction, noise cancellation can be more appropriately applied to further enhance the signal-to-noise ratio for speech coming from the front.

Consistent, long-term performance

To ensure optimal performance of the dual-microphone technology, sophisticated microphone matching and calibration are performed. These crucial steps are essential for consistent, long-term performance.

Measurable benefit

UltraZoom with SNR-Boost automatically improves understanding in background noise by an additional 15% over traditional directional microphones.



QuickSync

One-touch synchronization

QuickSync allows Audéo S SMART wearers to control both hearing instruments with just one touch. The instantaneous transfer of data between instruments ensures that program settings or FlexControl adjustments are always synchronized.



Adaptive Intelligence Apps – make sense of every situation. In any situation.

With digital technology, the demands and expectations of hearing instrument wearers have increased. To meet these, it is necessary to provide sophisticated technology, fitted skilfully. Audéo S employs powerful and adaptive tools which allow intelligent adaptation to each soundscape.



FlexControl

A breakthrough in intelligent user interaction

FlexControl is a landmark feature which further enhances and personalizes the SoundFlow automatic system. Far beyond mere volume adjustments, FlexControl influences a host of parameters in an intelligent and targeted manner.

Instead of just making sounds louder or softer, real time classification of the soundscape enables the system to understand the intention of a manual action. For example, when listening to music, "up" means a desire for fuller sound, while this same action when conversing in noise means the need for more clarity. So, even though the user action is the same, the ensuing FlexControl adjustments are quite different.

FlexControl selectively activates an amazingly broad range of highly effective tools, FlexVolume, compression characteristics, UltraZoom with SNR-Boost, NoiseBlock, EchoBlock and WindBlock. FlexControl intelligently responds to the wearer's desire for more hearing comfort, increased listening pleasure or enhanced speech intelligibility.



FlexVolume

Intelligent loudness management

FlexVolume brings additional sophistication to loudness adjustments. Instead of linear up and down shifts in gain, FlexVolume shapes the gain curve in a frequency dependent manner. This approach results in increased clarity when more volume is required, while comfort is enhanced with less volume.



SoundFlow

Automatically ahead

A truly effective hearing system is more than just an impressive collection of features. The benefit for the wearer is how they work together as an integrated whole. SoundFlow revolutionized automatic functionality in hearing systems by adaptively activating a host of comfort and clarity enhancing features at optimum levels to create a unique program, specially suited to each situation.

Multi-dimensional sound classifier

Thanks to the increased processing power of the Spice chipset, second-generation SoundFlow employs a high-definition, multi-dimensional sound classification system. The resolution of the classifier has nearly quadrupled and now uses up to 46 distinctive properties of the incoming sound to accurately analyze the soundscape. Similar to the improved sharpness of a photo when the number of pixels is increased, this allows extremely accurate identification of even subtle changes in the sound environment.

This more natural mapping of the soundscape enhances the ability of SoundFlow to generate an infinite number of situation-specific automatic programs. Furthermore, FlexControl adjustments made by the wearer personalize the settings in real time in the real world, offering rich, clear sound as natural and full as life itself.



User Preference Learning

The fusion of interactive control and automatic adaptation

Audéo S remembers adjustments made by the wearer and the optimization of parameters accomplished by FlexControl and FlexVolume. User Preference Learning captures the myriad of parameter adjustments of FlexControl and FlexVolume and intelligently applies them within SoundFlow. So, over time, Audéo S responds as desired without the need for manual adjustments.



Control and Connectivity Apps – in touch and in control

The Phonak AccessLine, an impressive collection of wireless accessories, offers outstanding Control and Connectivity Apps. Enjoying life to the fullest requires the freedom to connect to the world of modern communication. Spice wireless technology enables incredibly stable and efficient wireless transmission. This opens up the world of connectivity for Audéo S wearers.



Phonak PilotOne
Clever simplicity

Phonak PilotOne focuses on the essentials when it comes to discreet control. This new remote control was designed for maximum impact and ease of use. The clever simplicity and ergonomic design make it the most user-friendly remote control ever.



myPilot
Sophisticated control

myPilot, with full color display, is a great choice for clients who want access to a multitude of functions, including status information. It can be configured to be either menu-driven or with direct control, to match the needs of each client.





iCom

The communication interface

iCom, with true StereoSound, offers unmatched sound quality. Whether the input comes via Bluetooth, cable or FM, it doesn't matter. One-button control makes it the simplest streaming device in the industry. iCom works right out of the box, no programming required. Audéo S offers up to four dedicated iCom programs, so you can customize the streaming functionalities.



Phonak TVLink

The ideal TV experience

The dedicated Phonak TV solution offers an unrivalled listening experience. The low latency transmission and StereoSound provide excellent sound quality. True plug and play and one-step set-up make it ready to go in less than 60 seconds.



Click'nTalk

The intuitive mobile phone link

Click'nTalk is the clever solution for mobile phone users, combining best sound quality with convenient and intuitive use. Click'nTalk is a unique approach to enhance clients' mobile phone experience. No charging, no programming, no fitting required – just click and enjoy.



Dynamic FM

A Phonak FM bridges the gap

When it comes to understanding speech in noise or from a distance, nothing beats the performance of an FM system. Dynamic FM has set a new standard in FM technology.



Only Phonak offers FM access to users of CRT instruments, via iCom with a universal FM receiver.

Signature Apps – tried, tested and way ahead

A host of additional high-performance Apps perfectly complements the revolutionary new capabilities of Audéo S. Many of these were significantly enhanced by the new Spice chipset and algorithmic platform.



SoundRecover
Add understanding to hearing

The exclusive SoundRecover technology has triggered a paradigm shift in the approach to amplification of high frequency sounds for all degrees of hearing loss. SoundRecover picks up where extended bandwidth leaves off. It employs nonlinear frequency compression to ensure audibility of high frequency sounds that can otherwise not be made audible. SoundRecover expands perceptual bandwidth, improving intelligibility, while maintaining natural sound quality and comfort, so wearers can now enjoy the full spectrum of sounds.

Measurable benefit

SoundRecover is one of the most studied and published features in the industry. Numerous researchers around the world have explored its performance. This has resulted in over 20 industry and peer-reviewed publications and countless conference presentations.

For a full list of publications, please visit www.phonak.com/soundrecover

SoundRecover is available in every single Phonak Audéo S model. This Phonak signature feature has been established as the most significant innovation of the last decade.



WhistleBlock
Freedom from feedback

Enhanced WhistleBlock is now even more effective thanks to the addition of continuous behind the scenes monitoring and adaptation. Instead of applying the same levels of feedback cancellation for all situations, WhistleBlock now adjusts the feedback suppression levels adaptively and continuously, applying just the right amount of suppression needed for each specific situation. This results in a significant improvement in sound quality while feedback is always under control.



NoiseBlock
High-resolution noise cancellation

The enhanced high-resolution NoiseBlock algorithm is faster and more accurate in measuring the signal-to-noise ratio in each channel. Gain is decreased without delay, and only in channels with a poor SNR, so that noise is suppressed without reducing essential speech information. The result is increased comfort without compromising clarity.



EchoBlock

Adaptive reverberation cancellation

Reverberation diminishes clarity by blurring and distorting sounds. Such distortions are no longer a problem with EchoBlock. It instantly removes the disturbing reflections of the reverberant signal. Sound remains natural and undistorted. EchoBlock provides a better listening experience in large halls, places of worship, rooms with reflective surfaces and other reverberant environments.



WindBlock

Wind noise reduction

Being outdoors is part of everyday life. The adaptive WindBlock algorithm suppresses wind noise without changing microphone settings. Unlike other systems, the instruments can remain in directional mode while still effectively managing wind noise. With WindBlock, end users can really enjoy the great outdoors.



SoundRelax

Impulse noise suppression

Sharp, abrupt sounds like slamming doors and clanging dishes are an obvious irritation, made even worse when amplified. SoundRelax identifies these sounds and reduces gain appropriately. The result is effective cushioning of otherwise unpleasant sounds.



Real Ear Sound

Natural ear acoustics

When microphones are placed outside the pinna, natural localization cues can be lost. Real Ear Sound applies discrete, frequency-specific directionality to restore the effect of the pinna, providing natural front-to-back localization to complete the acoustic sound scene.



The brilliance of unrivalled style and performance

First impressions really count. The impact of size and style on the motivation of both new and experienced clients should not be underestimated. Invisibility is a key factor and often precedes performance considerations. The three award-winning, incredibly small housings will please even the most size- and style-conscious clients.

There is no need to choose between design and performance. Audéo S merges both to satisfy all your client's personal cosmetic preferences and performance demands.

Enhanced reliability and ergonomics

All Audéo S models are nano-coated to resist sweat and other moisture. This ensures stable, long-term performance. Newly designed battery compartments guarantee proper insertion and retention of the battery. What's more, the xReceiver wire is thinner with a better contour fit on the ear for comfort and minimum visibility. And the new domes have integrated wax prevention. In addition, we have designed a new microphone protection which provides the best possible protection. The improved program/volume button now gives clear tactile feedback to confirm user actions.



Audible superiority, unobtrusive beauty, 4 design awards

While we convince the most important jury of all – your clients – our design also won over a few other juries. The Audéo S portfolio is a collection of tiny and stylish instruments with the power, flexibility and durability to suit virtually every hearing need and individual lifestyle.

Audéo S MINI

Tiny and automatic, wear and forget

Audéo S MINI, the smallest Phonak ever, is the perfect choice for clients for whom cosmetics is the overriding aspect. Audéo S MINI convinces with expanded audibility, ultra-small size and ease of use. It is virtually invisible when worn, yet impressively stylish when shown. Audéo S MINI is fully automatic and will please your clients with its shape and wide range of attractive colors.



2010



reddot design award

Audéo S YES

Avant-garde design and wireless freedom

Audéo S YES exceeds performance demands and perfectly matches individual lifestyles. It combines truly discreet, avant-garde style with highest performance, including unique wireless and binaural applications. With 17 fresh color combinations, Audéo S YES is the choice for clients who appreciate unique style and enjoy expressing their individual taste.



reddot design award

Audéo S SMART

Style, control and wireless freedom

Audéo S SMART is the world's most sophisticated external receiver hearing system. It is the smallest Phonak with full wireless functionality and disappears behind the ear. Audéo S SMART impresses with revolutionary new binaural applications, adaptive intelligence and can be controlled directly at the ear via a push button or with remote control.



2010

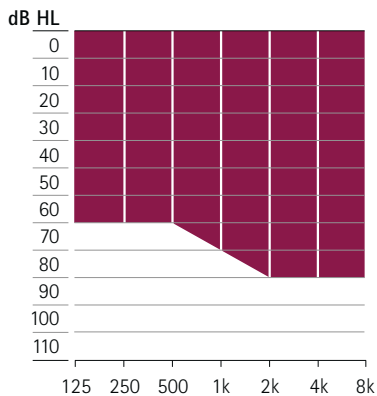
The right xReceiver for the right fit

3 power options

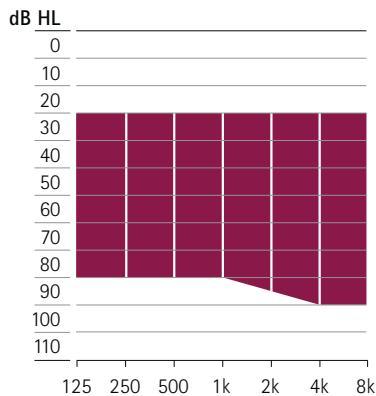
All Audéo S models offer the advantages of external receiver technology – tremendous flexibility, convenience, and very small size. In addition to the standard and power receiver options, Audéo S introduces a new SuperPower receiver. With its impressive electroacoustic performance of 69 dB Gain and 133 dB Output (Ear Simulator) it extends the fitting range of Audéo S, so all but profound hearing losses can be accommodated.

A wide range of instant and custom coupling options provides the flexibility to satisfy each client with great sound quality, superior comfort, stable retention, and long-term reliability. A custom shell (cShell) is available in both hard and soft versions. It is digitally produced using the most advanced custom manufacturing process in the industry. In order to achieve the smallest size and highest fit rate, a special cShell was designed specifically for the new SuperPower xReceiver.

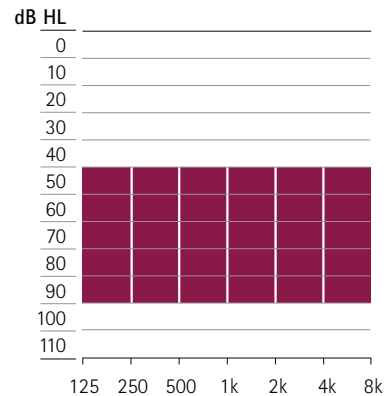
Standard xReceiver



Power xReceiver



SuperPower xReceiver



All the colors of delight

Audéo S YES



Audéo S MINI Audéo S SMART



Finally, one CRT portfolio that has it all. For everyone.



Audéo S												
	Battery	External xReceiver	Ear Simulator		2cc		Acoustic Coupling					
			Max. Gain	Max. MPO	Max. Gain	Max. MPO	cShell	cShell soft	xShell	SlimTip/SlimTip soft	Open/closed/power dome	Acoustically Optimized Vent (AOV)*
Audéo S YES	312	Standard xReceiver (xS)	56	121	44	112	■	■	■	■	■	■
	312	Power xReceiver (xP)	62	132	52	125	■	■	■	■	■	■
	312	SuperPower xReceiver (xSP)	66	133	58	129	■	■	■	■	■	■
Audéo S SMART	312	Standard xReceiver (xS)	56	121	45	112	■	■	■	■	■	■
	312	Power xReceiver (xP)	65	132	55	126	■	■	■	■	■	■
	312	SuperPower xReceiver (xSP)	69	133	61	129	■	■	■	■	■	■
Audéo S MINI	10	Standard xReceiver (xS)	56	121	45	112	■	■	■	■	■	■
	10	Power xReceiver (xP)	65	132	55	126	■	■	■	■	■	■
	10	SuperPower xReceiver (xSP)	69	133	61	129	■	■	■	■	■	■

*Available for cShell/cShell soft, xShell and SlimTip/SlimTip soft

		Apps																								
		Control and Connectivity Apps					Binaural Directional Apps					Adaptive Intelligence Apps				Signature Apps										
		Phonak PilotOne	myPilot	iCom	Click'nTalk	Phonak TVLink	Dynamic FM	StereoZoom	auto ZoomControl	ZoomControl	DuoPhone	UltraZoom	QuickSync	FlexControl	FlexVolume	User Preference Learning	SoundFlow	SoundRecover	EchoBlock	WindBlock	SoundRelax	Real Ear Sound	WhistleBlock	NoiseBlock	Channels	Manual programs
Audéo S YES IX						▲						Premium				Premium 4 programs							Premium	20	5+2	
Audéo S YES V						▲						Advanced				Advanced 3 programs							Advanced	16	4+2	
Audéo S YES III						▲						Standard				Standard 2 programs							Standard	6	3+2	
Audéo S SMART IX						▲						Premium				Premium 4 programs							Premium	20	5+2	
Audéo S SMART V						▲						Advanced				Advanced 3 programs							Advanced	16	4+2	
Audéo S SMART III						▲						Standard				Standard 2 programs							Standard	6	3+2	
Audéo S MINI IX												Premium				Premium 4 programs							Premium	20		
Audéo S MINI V												Advanced				Advanced 3 programs							Advanced	16		
Audéo S MINI III												Standard				Standard 2 programs							Standard	6		

▲ Requires iCom

Phonak Target™ is great to work with

The beauty of the new fitting software, Phonak Target™, is that you can go with your flow, rather than follow rigid procedures demanded by older software. Hearing care professionals worldwide helped us develop and perfect Phonak Target™. We kept at it until we achieved the ideal combination of fitting sophistication and ease of use. Prepare to be delighted.

New – but easy to get used to

Phonak Target™ is user-centered design at its best. The graphical user interface and transparent architecture were created in close collaboration with over 200 hearing care professionals. Using state-of-the-art interaction design development tools, it was possible to closely monitor fitter actions while they used prototype versions of the software. The feedback was thoroughly analyzed and improvements were applied to subsequent versions. This process was repeated until no further changes were deemed necessary. These pioneering efforts resulted in software that we know you will find delightful to work with. It supports your individual workflow, leaving you free to focus on your client.

CableFree Fitting

The iCube fitting interface provides fast, smooth and reliable cable-free programming. iCube offers consistent convenience for you and your clients. If you prefer NOAHlink and HI-PRO fitting interfaces, these are also supported by Phonak Target™.

Phonak Target™ is the culmination of groundbreaking design and development efforts. We are certain you will quickly embrace this landmark new fitting software which lets you truly customize the fitting procedure to suit you and your clients. Thank you for your help with Phonak Target™!

Phonak Target™. Fitting that fits you.

Audéo S – brilliant design meets Spice technology

- 1 amazing new chipset
- 1 new fitting software
- 3 performance levels
- 3 power options
- 3 brilliant designs
- 4 design awards
- 9 Apps packages
- 27 possible configurations

40,000 happy hearing care professionals

Countless delighted clients





Life is on

We are sensitive to the needs of everyone who depends on our knowledge, ideas and care. And by creatively challenging the limits of technology, we develop innovations that help people hear, understand and experience more of life's rich soundscapes.

**Interact freely. Communicate with confidence.
Live without limit. Life is on.**

www.phonakpro.com