

Disclosure in accordance with ASHA CEU Requirements

- Eileen Wicker, MA
- Clinical Trainer

• Eileen Wicker, MA is a Clinical Trainer for the Midwest Region at Phonak. She has ten years experience in hearing aid manufacturing including sales, technical support and training. Prior to manufacturing she worked in a clinical dispensing practice. She received her Masters in Audiology from the University of Minnesota and her undergraduate degree from the University of Iowa.

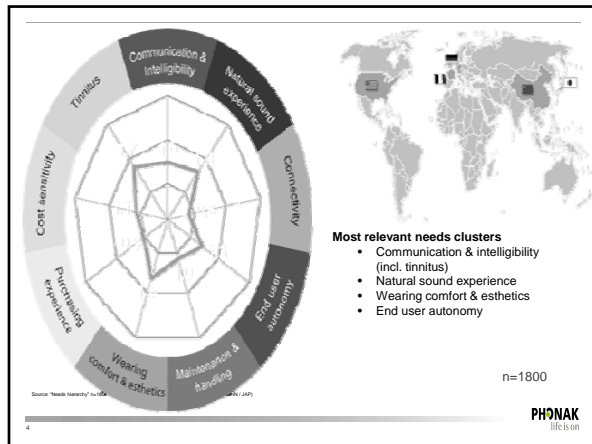
- I have a financial relationship to disclose:
 - Employee of Phonak who receives a salary
- I have no nonfinancial relationship to disclose

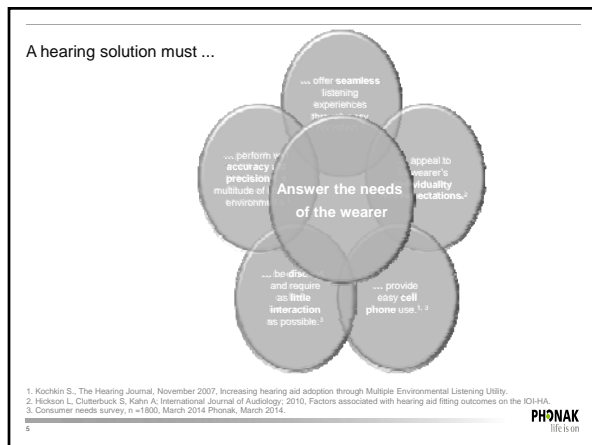
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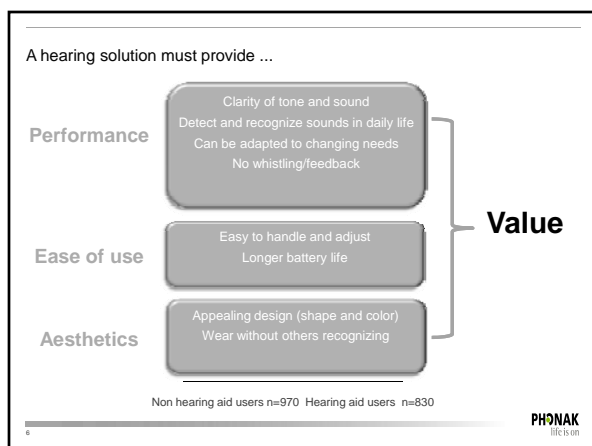
Learner Objectives

- Participants will be able to describe the different Phonak Audéo V models available.
- Participants will be able to describe various features in the Phonak Audéo V including AutoSense OS, Speech in Loud Noise, Speech in Wind and Speech in 360°.
- Participants will be able to describe the benefits of the various features in the Phonak Audéo V.

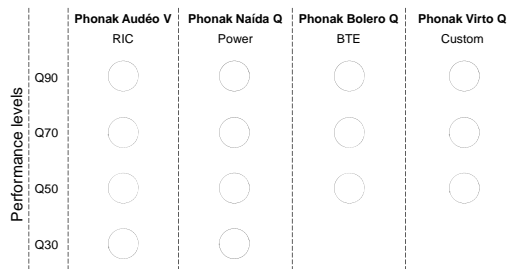
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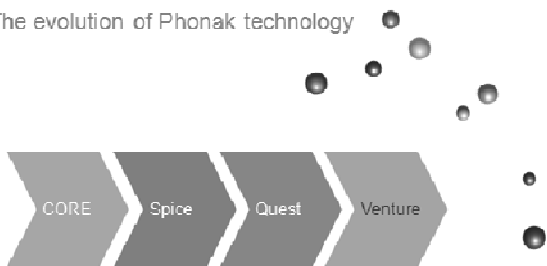


The full choice of Phonak solutions



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The evolution of Phonak technology



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The Hardware: Venture chip

- Reduction in power consumption when streaming (up to 30%)
- New analog to digital processor
- More non volatile memory

	Palio	Core	Spice+Quest	Venture
	Savia/Art	Exelia	Ambra/Bolero	Audeo V
Transistors	7.5 million	8 million	16 million	45 million
Million operations per second	100	120	200	552
Structure	130nm	90nm	65nm	65nm

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Phonak Audéo V

Unmatched accuracy, precise performance



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The new Audéo RIC portfolio

Audéo V-10



Audéo V-312



Audéo V-312T



Audéo V-13



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Phonak Audéo V: Highlights

- 4 new models, all with program button
- Audéo V-10 wireless with Binaural VoiceStream Technology™
- New high-tech composite material
- Audéo V-13 with separate volume control and push button
- Tinnitus Balance in all Audéo V models



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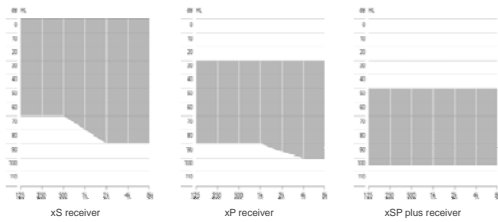
Audéo V-10 : Cosmetic appeal with wireless capabilities

- Push-button control
- Full wireless capabilities
- IP 57



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Fitting ranges for all Audéo V



- Existing receivers, domes, SlimTips and cShells



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90 – Premium

- Speech in Call
- Speech in Loud Noise™
- Comfort in Echo
- Music
- Comfort in Noise
- Speech in Noise
- Call Situation
- Speech in Wind™
- Speech in 360°
- WindBlock
- WindBlock
- SoundFilter
- SNR Boost
- FlexControl
- Flex Volume
- DuoPhone™
- Real Ear Sound
- WindBlock
- SoundFilter
- SoundRecover
- Timbre Balance
- autoAcousticVenting
- UltraZoom Premium
- User Preference Tuning
- 12 channels
- MIP compatible

70 – Advanced

- Music
- Comfort in Noise
- Speech in Noise
- Call Situation
- Speech in 360°
- Speech in Loud Noise™
- WindBlock
- SoundFilter
- SNR Boost
- FlexControl
- Flex Volume
- DuoPhone™
- Real Ear Sound
- WindBlock
- SoundRecover
- Timbre Balance
- autoAcousticVenting
- UltraZoom Premium
- User Preference Tuning
- 12 channels
- MIP compatible

50 – Standard

- Comfort in Noise
- Speech in Noise
- Call Situation
- WindBlock
- SoundFilter
- SNR Boost
- FlexControl
- Flex Volume
- DuoPhone™
- Real Ear Sound
- WindBlock
- SoundRecover
- Timbre Balance
- autoAcousticVenting
- UltraZoom Premium
- User Preference Tuning
- 12 channels
- MIP compatible



AutoSense OS

30 – Essential

- Speech in Noise
- Call Situation
- WindBlock
- SoundRecover
- Timbre Balance
- autoAcousticVenting
- UltraZoom Premium
- User Preference Tuning
- 12 channels
- MIP compatible

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Phonak Audéo V battery life



UP TO 30% IMPROVEMENT!

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Venture Chip – Power Consumption

Power savings in a loud listening situation (vs. Quest)

Party Scene (75-80 dB SPL)	Hearing loss/ Receiver	Audéo Q 312T (Naida Q-RIC)	Audéo V 312	Difference
AutoSense OS (no BVST)	Moderate – xS	1.9 mA	1.5 mA	-21%
	Mod/Severe – xP	1.9 mA	1.7 mA	-11%
	Severe – xSP plus	2.8 mA	1.9 mA	-32%
Speech in Loud Noise	Moderate – xS	4.5 mA	3.2 mA	-29%
	Mod/Severe – xP	4.5 mA	3.4 mA	-24%
	Severe – xSP plus	5.4 mA	3.6 mA	-33%

Current consumption in "Mute"

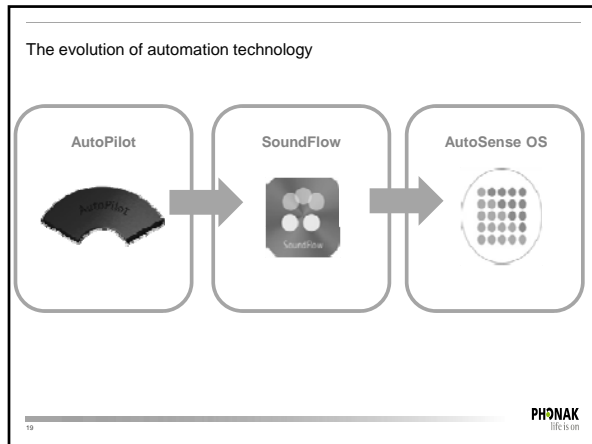
- Almost all functionality switched off: approx. 0.5mA

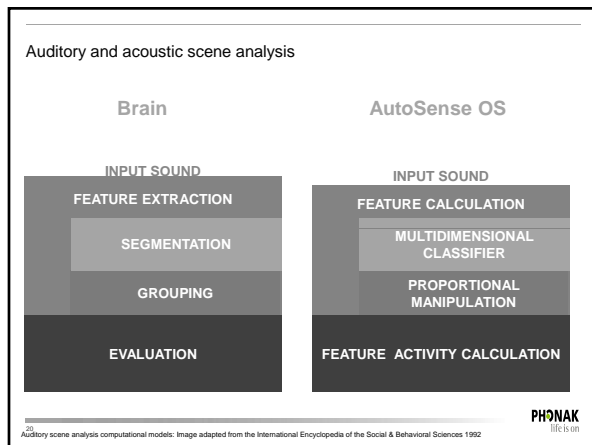
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Audéo V

	Phonak Audéo V-10	Phonak Audéo V-312	Phonak Audéo V-312T	Phonak Audéo V-13
All new designs				
New High Tech Composite Housing				
Binaural VoiceStream Technology™	★	★	★	★
Wireless programming	★	★	★	★
Wired programming		★	★	★
T-Coil			★	★
Push Button	★	★	★	★
Volume Control				★
Direct Audio Input				★
AS18				★
Roger 18				★
xS Receiver	★	★	★	★
xP Receiver	★	★	★	★
xSP plus Receiver		★	★	★

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Accuracy and precision are both important

Accuracy:

- How many sound environments can the hearing aid correctly identify?

Example:

"Am I in noise" or "Am I in quiet"? → EASY

"Am I in a noisy car" or "Am I in a noisy café"? → HARDER

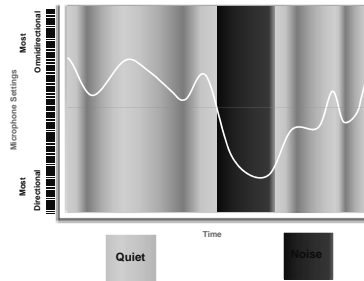
Why is accuracy important?

- The hearing aids will accurately recognize the sound environment

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AutoSense OS: accuracy and precision at its most powerful

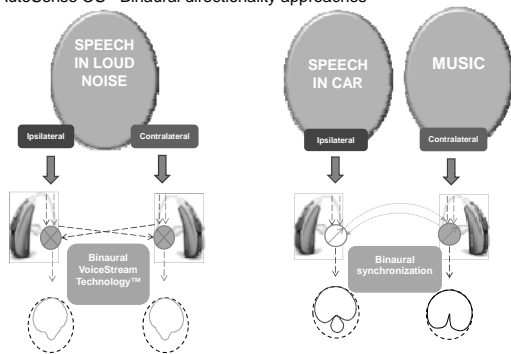
Precision unlocks the potential provided by accuracy



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AutoSense OS - Binaural directionality approaches



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A program structure to match listening environments and people's needs

AutoSense OS Programs	Description
Calm	Optimal gain setting for speech understanding and listening comfort
Speech in Noise	Adapts and reduces noise from behind in real time
Speech in Loud Noise	Zooms in on single voice in diffuse noise environment
Speech in Car	Reduces broadband noise in car to create stable listening environment
Comfort in Noise	Actively reduces noise in environment for increased comfort in absence of speech
Comfort in Echo	Recognizes reverberation and applies gain reduction
Music	Expanded dynamic range and slow compression for fuller and richer experience

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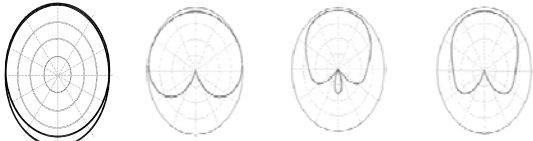


AutoSense OS
Speech in Loud Noise

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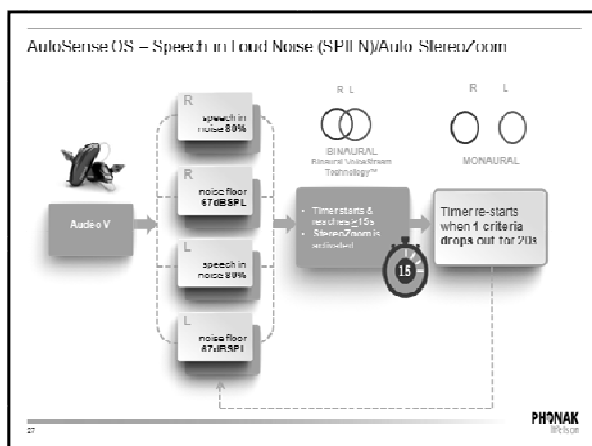
Comparison of Venture microphone modes

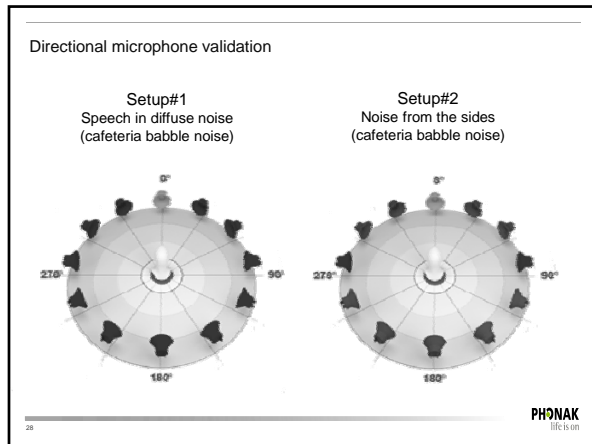


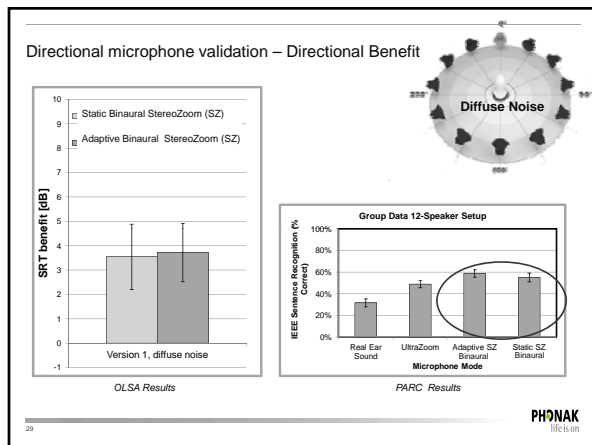
Real ear sound UltraZoom Fixed StereoZoom Adaptive StereoZoom

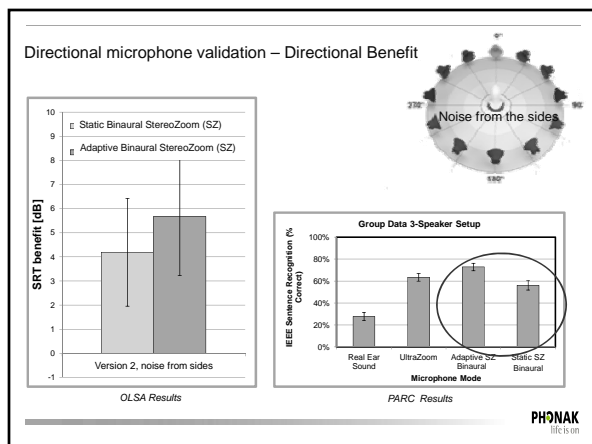
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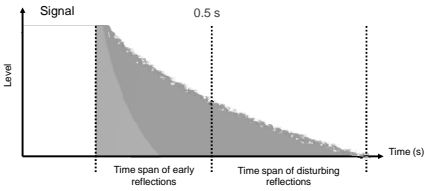
AutoSense OS
Comfort in Echo

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How the echo is reduced

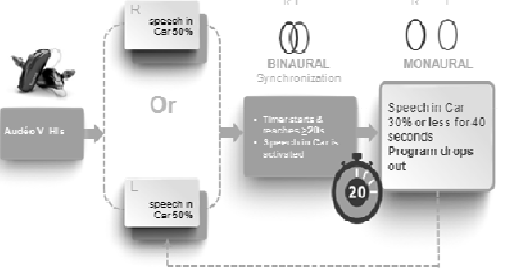
Why is it important?
Negative effects of reverberation on amplification

What is it?
Looks for "tails" and cleans up "pauses"



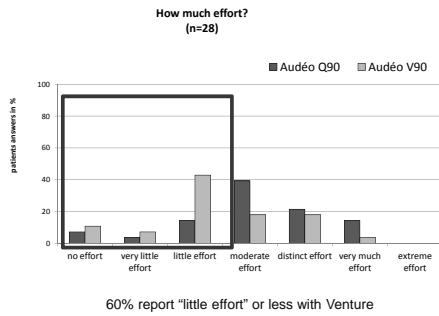
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AutoSense OS – Speech in Car



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Speech in Car validation results



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AutoSense OS
Music

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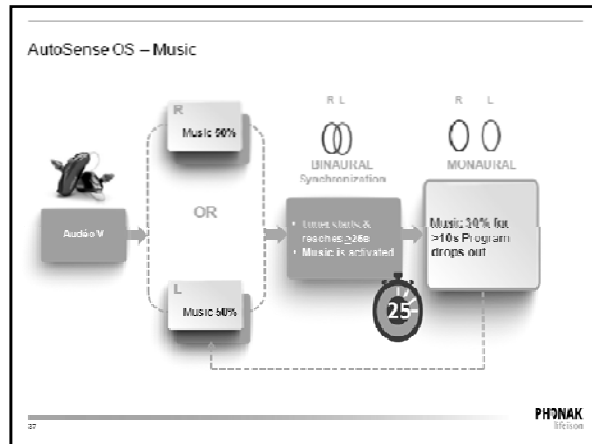
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Music program information

	Venture Music Program
High Input Limit	118 dB SPL
Input dynamic range	101 dB SPL
Compression	Variable release times
Directionality	Omni; RealEar Sound; Fixed Beamformer
WhistleBlock	Independent adjustment in AutoSense OS

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Music & Audéo V: External benchmark study

Study setup:

- 5 competitor hearing aids set at default music program; 1 Audéo V with 4 settings (SR on/off, Bass boost on/off) and 2 Phonak Q devices in default music program
- Classical 1, classical 2, opera, jazz, pop, rock, rock live
- 15 participants, trained "expert ears"
- Moderate hearing loss, open dome fitting

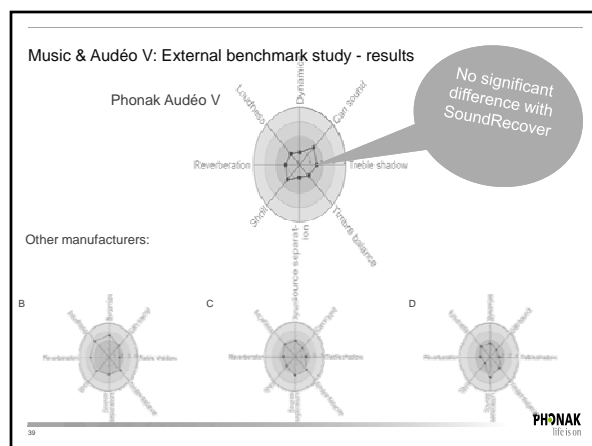
Hearing aid recordings:

- Bruel & Kjaer HATs 4128c and stereo loudspeaker set up at calibrated level
- Recordings were prepared and compensated for ear canal and headphone frequency response.

Attribute
Timbre balance
Can sound
Shrill
Reverberation
Loudness
Dynamics
Source separation
Treble shadow

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The new Audéo RIC portfolio

Audéo V-10



Audéo V-312



Audéo V-312T

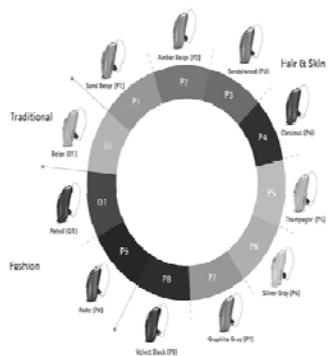


Audéo V-13



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Colors



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Phonak Target 4.0

Fitting that fits you



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Phonak Target 4.0

Consistent dashboard

More space

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New Phonak Venture fitting options

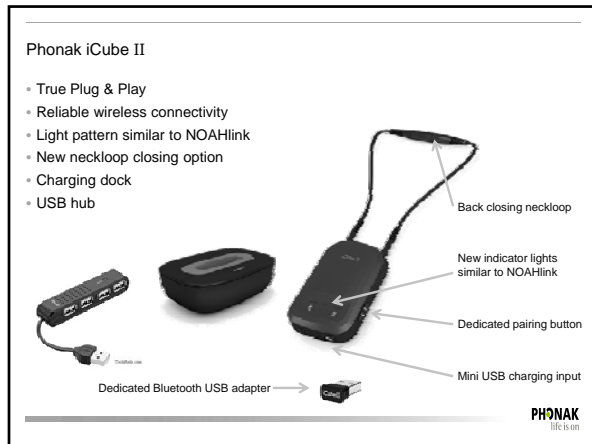
- AutoSense OS
 - Program structure
 - Program options
 - Blending
- Binaural VoiceStream Technology™
- Gain level default 90%
- TK/Gain 35dB
- Volume behavior
- Signals and alerts

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iCube II fitting interface

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Phonak iCube II compatibility

iCube II is compatible to all wireless hearing instruments fit in Phonak Target

	Venture	Quest	Spice+	CORE (iPFG)
iCube II	✓	✓	✓	-
iCube	-	✓	✓	✓

Please note:

- Audéo V-10 can only be fit wirelessly
- Switch off all wireless accessories while using the iCube II

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Multiple hearing instrument programming session compatibility

Platform	Spice	Quest	Venture
Venture	-	-	✓
Spice	✓	✓	-
Quest	✓	✓	-

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Virtual Mirror

An app to show your patients what can't be seen



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Tinnitus Balance noise generator



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The new user guide and hard case



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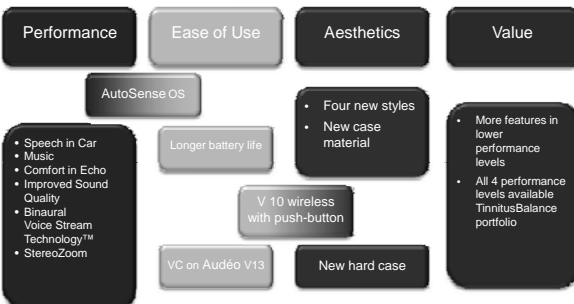
D-Dry

- UV-C light chamber for drying and cleaning hearing instruments
- 5 minute cleaning process
- Auto shut-off when drying process is complete

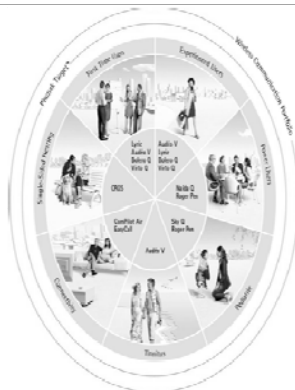


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In Summary



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Join our Venture!

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