

At a glance - The Siemens product portfolio

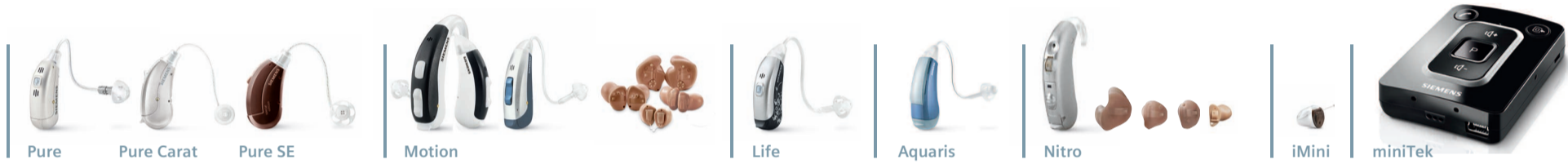
May 2011

Product	Style	Battery size	Rechargeable	Better Hearing			Sound Comfort								Individuality		
				Channels	Directionality	SpeechFocus	FeedbackStopper	SoundBrilliance	TruEar	e2e wireless	SoundSmoothing	Speech & noise management	eWindscreen	Tinnitus Control	Trainable Hearing Instrument	Remote Control Option	miniTek/ Tek
Pure 701	RIC	312	✓	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
Pure Carat 701	RIC	13	✓	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
Pure SE 701	RIC	10	-	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
Motion 701	BTE/ITE	10/312/13	✓ * Motion P & SX	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0*	ProPocket & ePen	✓
Life 701	Life	312	-	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
Aquaris 701	BTE	13	-	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
iMini	CIC	10	-	16	-	-	✓	✓	-	-	✓	✓	✓	-	-	-	-
Nitro™ 701	ITE	10/312	-	16	-	-	✓	-	-	-	✓	✓	✓	-	SoundLearning 2.0*	-	-
Nitro™ 701 SP	BTE	675	-	16	Multi-channel adaptive	✓	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning 2.0	ProPocket & ePen	✓
Pure 501	RIC	312	✓	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning	ProPocket & ePen	✓
Pure Carat 501	RIC	13	✓	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning	ProPocket & ePen	✓
Pure SE 501	RIC	10	-	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning	ProPocket & ePen	✓
Motion 501	BTE/ITE	10/312/13	✓ * Motion P & SX	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning*	ProPocket & ePen	✓
Life 501	Life	312	-	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning	ProPocket & ePen	✓
Aquaris 501	BTE	13	-	12	Multi-channel adaptive	-	✓	✓	✓	2.0	✓	✓	✓	✓	SoundLearning	ProPocket & ePen	✓
Pure 301	RIC	312	✓	8	Adaptive	-	✓	-	-	2.0	✓	✓	✓	✓	DataLearning	ProPocket & ePen	✓
Pure Carat 301	RIC	13	✓	8	Adaptive	-	✓	-	-	2.0	✓	✓	✓	✓	DataLearning	ProPocket & ePen	✓
Motion 301	BTE/ITE	10/312/13	✓ * Motion P & SX	8	Adaptive	-	✓	-	-	2.0	✓	✓	✓	✓	DataLearning*	ProPocket & ePen	✓
Life 301	Life	312	-	8	Adaptive	-	✓	-	-	2.0	✓	✓	✓	✓	DataLearning	ProPocket & ePen	✓
Nitro™ 301	ITE	10/312	-	8	-	-	✓	-	-	-	✓	✓	✓	-	DataLearning*	-	-
Nitro™ 301 SP	BTE	675	-	8	Adaptive	-	✓	-	-	2.0	✓	✓	✓	✓	DataLearning	ProPocket & ePen	✓
Pure 101	RIC	312	✓	6	Automatic	-	✓	-	-	-	-	✓	✓	✓	DataLogging	-	-
Motion 101	BTE/ITE	10/312/13	✓ * Motion P & SX	6	Automatic	-	✓	-	-	-	-	✓	✓	✓	DataLogging*	-	-
Life 101	Life	312	-	6	Automatic	-	✓	-	-	-	-	✓	✓	✓	DataLogging	-	-
Intuis (all models)	Life/BTE/ITE	10/312/13	-	4	Dependent on style	-	Adaptive	-	-	-	-	✓	-	-	-	-	-

* With VC option on ITEs



With BestSound Technology



SIEMENS

www.siemens.co.uk/hearing

	Feature description	Customer benefit
	Rechargeability <ul style="list-style-type: none"> Instruments are placed in the charger Errors are detected, such as incorrect batteries, and charger automatically switches off Fully charged batteries last for 20 hours (* subject to receiver size and usage) Charger also acts as a drying box 	<ul style="list-style-type: none"> Easy battery handling and convenience Modern approach
Better Hearing	Multi-channels <ul style="list-style-type: none"> More channels allows for greater adjustability of the hearing instrument to better fit to the patient's audiogram 	<ul style="list-style-type: none"> Allows the instrument to be tailored to each customer's individual needs
	SpeechFocus <ul style="list-style-type: none"> Enhances the multi-channel directivity Suppresses noise coming from the front of the wearer to focus on speech from behind Detects when speech is coming from the side and chooses an omni-directional microphone setting Activates when the input signal is greater than 66dB Operates completely automatically 	<ul style="list-style-type: none"> Speech can always be focused on, no matter what the direction, which is particularly useful when driving a car Completely automatic
Sound Comfort	FeedbackStopper <ul style="list-style-type: none"> Sound is stamped with an acoustic fingerprint as it enters the hearing instrument for the first time Any feedback loop is instantly recognised An inverse phase signal is applied to cancel the open loop transfer The hearing instrument then shifts the entire output by 25Hz to a higher frequency to break the feedback loop 	<ul style="list-style-type: none"> No feedback for the wearer 25dB added stable gain No artefacts
	SoundBrilliance <ul style="list-style-type: none"> Artificial extension of high frequency output The instrument copies the output between 4kHz and 8kHz and pastes it between 8kHz and 12kHz The customer must have thresholds at 4kHz of 80dB or better 	<ul style="list-style-type: none"> Provides brilliance and roundness for music
	TruEar <ul style="list-style-type: none"> Mimics the natural directivity of the open ear canal to restore front back localisation for quiet situations and conversation with up to 5 people 	<ul style="list-style-type: none"> The customers will be able to distinguish between sounds coming from the front or back
	e2e wireless <ul style="list-style-type: none"> Bilateral synchronisation of digital signal processing (situation detection, noise management and directional microphones), volume control and push button 	<ul style="list-style-type: none"> The customer can easily locate the source of a sound The customer can easily make volume and program changes
	Speech and Noise Management <ul style="list-style-type: none"> Noise Reduction acts independently in each channel Noise Reduction analyses signal content and, where mostly noise is detected, will reduce channel gain Speech Enhancement acts independently in each channel and reduces noise in the inter syllable gaps SoundSmoothing reduces transient sounds 	<ul style="list-style-type: none"> Speech can easily be distinguished from background noise such as traffic The hearing instrument will be comfortable to wear in all situations
eWindscreen <ul style="list-style-type: none"> Detects when wind is blowing across the microphone ports Returns the polar pattern to omni-directional and reduces low frequency gain 	<ul style="list-style-type: none"> The customer will be comfortable when outside, in all conditions and still be able to understand speech 	
Individuality	DataLogging <ul style="list-style-type: none"> Begins logging as First Fit is applied Logs for 4000 days Logs by the hour 	<ul style="list-style-type: none"> Usage of the hearing instrument is recorded without the customer having to remember any details The number of return visits is reduced
	DataLearning <ul style="list-style-type: none"> Features of DataLogging plus: Records VC changes made by the wearer over a day and automatically applies a new VC start up position the next time the instrument is switched on 	<ul style="list-style-type: none"> The hearing instrument automatically switches on at the customer's preferred volume setting
	SoundLearning <ul style="list-style-type: none"> Features of DataLearning plus: As the VC is adjusted the input signal is also analysed to determine which frequency band has caused the VC change by being too loud or quiet The compression ratio is adjusted in that band to provide comfort across the complete frequency range resulting in a change to the frequency response shape SoundBalance is a part of SoundLearning and allows the customer to adjust the gain in the high frequency bands, thereby training the instrument with their preferences via the Tek 	<ul style="list-style-type: none"> The instrument is learning the customer's preferences in real life situations and adjusting its sound accordingly The customer is teaching the instrument how they want it to sound
	SoundLearning 2.0 <ul style="list-style-type: none"> Features of SoundLearning plus: Our benchmark situation detection system Hearing instrument learns the wearer's preferences in different acoustic environments Preferences for Speech, Noise and Music are all learned and stored within the universal program Automatic transition between VC settings, compression and frequency shape as the acoustic environment changes 	<ul style="list-style-type: none"> Hearing instrument learns the wearer's preferences in real life Better speech intelligibility and comfort Reduced appointments for fine tuning
miniTek/Tek <ul style="list-style-type: none"> Bluetooth stereo streaming to both hearing instruments Comes complete with all necessary cables and a paired transmitter to allow connection to television or other devices Bluetooth connectivity to phones, MP3 players etc miniTek comes with an integrated Telecoil and DAI for linking to FM receivers Also a remote control for the hearing instruments 	<ul style="list-style-type: none"> Easy and convenient connection to every day devices miniTek and Tek Connect are rechargeable, modern and convenient 	

HIGH

I want to hear speech from any direction
SpeechFocus* - Scans listening environment and automatically selects best directional pattern to enhance speech

- Hear speech from behind or to the side
- No need to turn towards the speech signal

I want to hear more naturally
TruEar* - Mimics the natural directivity of the open ear

- Wearer able to distinguish where sounds are coming from
- Improved localisation helps provide a more natural listening experience

INTERMEDIATE

I want an enhanced listening experience
SoundBrilliance - Artificial extension of high frequency output, enhancing perception of high frequency sounds

- Great for wearers who enjoy listening to music
- Provides sound that is richer and fuller

I want a fully automatic hearing instrument
SoundLearning - Hearing instruments learn wearers listening preferences in real life situations according to current listening environment

SoundLearning 2.0*

- Hearing instruments learn and adjust hearing preferences for different acoustic environments
- Improved speech intelligibility and comfort
- No need for wearer to adjust instruments

SoundLearning

- Hearing instruments learn and adjust hearing preferences in the universal program
- Wearer teaches the instruments how they want them to sound

DataLearning

- Hearing instruments learn preferred volume setting by monitoring volume changes throughout the day

Situation detection

- Hearing instruments recognise different acoustic situations and adjust automatically
- Reduced effort - no need to adjust volume
- Improved comfort
- Maximum speech intelligibility

I want to be connected to the world around me so hearing the TV, mobile phone and music is important
miniTek & Tek* - Streams audio signals direct to hearing instruments

- Easy and convenient connection to everyday devices
- Rechargeable

I want to be able to hear conversations when in restaurants or at parties
SoundSmoothing - Reduces the peaks of transient sounds such as cutlery and breaking glass

- Increased comfort for wearer when in restaurant and party listening situations
- Improved speech intelligibility in these noisy situations

I want to hear others better when there is background noise
Noise Reduction & Speech Enhancement - Analyses sound signals and where mostly noise is detected, reduces gain

- Speech can be easily distinguished from background noise such as traffic
- Hearing instruments will be more comfortable to wear in all situations

BASIC

I want to be able to recharge my hearing instruments (Pure, Pure Carat & Motion SX/P only)
Rechargeability - Charger provides full days use of hearing instruments after 5 hours charge

- Easy battery handling and convenience
- Modern approach

I want to wear my hearing instruments outdoors without the annoying amplification of wind noise
eWindscreen - Detects wind blowing across the microphone ports and automatically changes the microphone directionality to omnidirectional to reduce low frequency gain

- Wearer will be more comfortable when outside
- Wearer will still be able to understand speech

I want to hear comfortably without unpleasant whistling
FeedbackStopper - Hearing instruments are able to quickly detect and stop whistling before it starts

- No feedback for the wearer
- 25dB added stable gain
- No artefacts

Intuis includes high speed automatic/adaptive feedback cancellation only

I want to hear better
Directional microphones* - Provides increased signal to noise ratio and improved speech intelligibility

- Wearer is able to focus on conversations
- Wearer is able to hear important environmental sounds

701	501	301	101	Intuis
Pure Motion Life Nitro Aquaris iMini	Pure Motion Life Aquaris	Pure Motion Life Nitro	Pure Motion Life	(all models)

* feature not available for iMini or Nitro ITEs