

BERNAFON PRODUCT PORTFOLIO OVERVIEW



THE NEW DYNAMICS OF HEARING

Real-life environments can be very dynamic. This makes it difficult for a traditional hearing aid system to accurately adapt to listening situations. Today's environment classification systems use hard classification boundaries to determine the appropriate amplification. Therefore, amplification decisions are made based on passed information. A system that stays in sync with the changes in the environment is the ideal solution. That solution is Bernafon's **Dynamic Environment Control System™** or **DECS™**.

Available in Zerena 9|7|5, DECS™ marks a quantum leap from adaptive to dynamic hearing aid behavior. It consists of the four hero features: Continuous Environment Detection, Dynamic Noise Management™ (DNM™), Dynamic Amplification Control™ (DAC™), and Dynamic Speech Processing™ (DSP™). The active and fast-changing environment is continuously analyzed, allowing for seamless responses.

Zerena 3|1 incorporates some of the key features of DECS™, making it Bernafon's best basic product.

ZERENA 9

BEST	Continuous Environment Detection DECS™ Dynamic Speech Processing™ (DSP™) ChannelFree™ Speech Cue Priority™
	Continuous Environment Detection DECS™ Dynamic Amplification Control™ (DAC™) Speech/Comfort preference (10 Settings) Frequency Composition™ Frequency bandwidth 10 kHz 16 fitting bands
BETTER	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality (High / Medium focus) Transition (3 options) Directionality Controls (Dynamic Directionality / Fixed Dir / Fixed Omni / True Directionality™) Low Frequency Enhancer
	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction (4 Settings) Dynamic Range Extender Binaural Noise Management Adaptive Feedback Cancellor Transient Noise Reduction (4 options) Wind Noise Manager Soft Noise Management
GOOD	Binaural Coordination RC-A SoundClip-A EasyControl-A app iPhone Mic TV-A adapter Made for all phones*
	Tinnitus SoundSupport Adaptation Manager Comfort in Airplane Live Music and Cinema Programs Sound optimizer

ZERENA 7

BETTER	Continuous Environment Detection DECS™ Dynamic Speech Processing™ (DSP™) ChannelFree™ Speech Cue Priority™
	Continuous Environment Detection DECS™ Dynamic Amplification Control™ (DAC™) Speech/Comfort preference (6 Settings) Frequency Composition™ Frequency bandwidth 8 kHz 14 fitting bands
GOOD	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality (Medium focus) Transition (3 options) Directionality Controls (Dynamic Directionality / Fixed Dir / Fixed Omni) Low Frequency Enhancer
	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction (4 Settings) Binaural Noise Management Adaptive Feedback Cancellor Transient Noise Reduction (3 options) Wind Noise Manager Soft Noise Management
BASIC	Binaural Coordination RC-A SoundClip-A EasyControl-A app iPhone Mic TV-A adapter Made for all phones*
	Tinnitus SoundSupport Adaptation Manager Live Music and Cinema Programs Sound optimizer

ZERENA 5

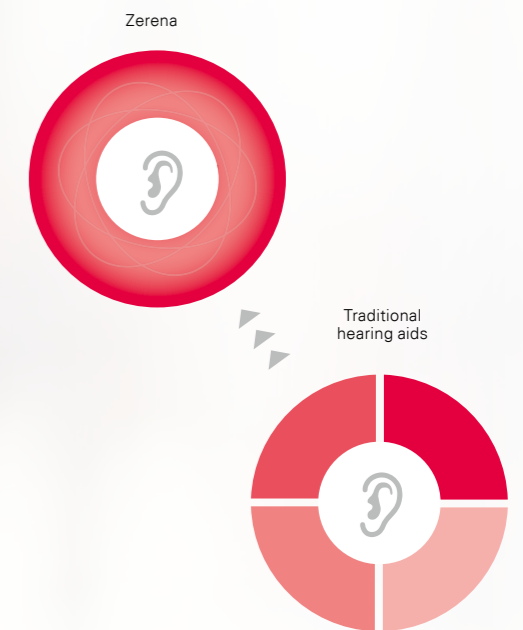
GOOD	Continuous Environment Detection DECS™ Dynamic Speech Processing™ (DSP™) ChannelFree™ Speech Cue Priority™
	Continuous Environment Detection DECS™ Dynamic Amplification Control™ (DAC™) Speech preference (2 Settings) Frequency Composition™ Frequency bandwidth 8 kHz 12 fitting bands
BASIC	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality (Medium focus) Transition (2 options) Directionality Controls (Dynamic Directionality / Fixed Dir / Fixed Omni) Low Frequency Enhancer
	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction (3 Settings) Adaptive Feedback Cancellor Transient Noise Reduction (3 options) Wind Noise Manager Soft Noise Management
ENTRY	Binaural Coordination RC-A SoundClip-A EasyControl-A app iPhone Mic TV-A adapter Made for all phones*
	Tinnitus SoundSupport Adaptation Manager Live Music and Cinema Programs Sound optimizer

ZERENA 3

BASIC	Continuous Environment Detection ChannelFree™ Speech Cue Priority™ Frequency Composition™ Frequency bandwidth 8 kHz 10 fitting bands
	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality (Low focus) Directionality Controls (Dynamic Directionality / Fixed Dir / Fixed Omni) Low Frequency Enhancer
ENTRY	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction Adaptive Feedback Cancellor Transient Noise Reduction Wind Noise Manager Soft Noise Management
	Binaural Coordination RC-A SoundClip-A EasyControl-A app iPhone Mic TV-A adapter Made for all phones*
ENTRY	Tinnitus SoundSupport Adaptation Manager Sound optimizer

ZERENA 1

ENTRY	Continuous Environment Detection ChannelFree™ Speech Cue Priority™ Frequency bandwidth 8 kHz 8 fitting bands
	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality (Low focus) Directionality Controls (Dynamic Directionality / Fixed Dir / Fixed Omni) Low Frequency Enhancer
BASIC	Continuous Environment Detection DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction Adaptive Feedback Cancellor Wind Noise Manager Soft Noise Management
	Binaural Coordination RC-A SoundClip-A EasyControl-A app iPhone Mic TV-A adapter Made for all phones*
ENTRY	Tinnitus SoundSupport Adaptation Manager Sound optimizer



Sound



Speech



Hearing comfort



Operating comfort



Individualization

*For information on compatibility, please visit www.bernafon.com/products/accessories.

bernafon
Your hearing • Our passion

FEATURES AT A GLANCE*

DECS™ Continuous Environment Detection	Constantly collects information about the environment. Whenever and however the environment changes, it will relay the information throughout DECS™ so that the listener receives an optimized signal without any interruptions to their listening experience.
DECS™ Dynamic Speech Processing™ (DSP™) ChannelFree™, Speech Cue Priority™	DSP™ is the signal processing component of DECS™. It combines ChannelFree™ with DAC™ and incorporates Speech Cue Priority™. With DSP™, clients receive continuously corrected output to keep up with dynamic environments.
DECS™ Dynamic Amplification Control™ (DAC™) Speech/Comfort preference	Based on information provided continuously from the environment, DAC™ transfers information to the DSP™ to ensure that the correct amount of compression and gain are added to the signal.
ChannelFree™	Adjusts the gain 20,000 times per second over the entire frequency range and amplifies each phoneme individually. The result is a clear and natural sound as well as optimized speech comprehension.
Speech Cue Priority™	Selects the signal processing style to match different auditory resolutions and strives for maximum speech comprehension for your clients.
Frequency Composition™	Makes high-frequency information available at lower-frequency regions for those who cannot process the high-frequency information.
Frequency bandwidth (kHz)	Provides a natural hearing experience across all frequencies.
Fitting bands	Allows the hearing care professional to adjust the sound characteristics for the individual preferences of the customer.
DECS™ Dynamic Noise Management™ (DNM™) Dynamic Directionality, Transition	Based on information provided continuously from the environment, DNM™ determines the configuration of the directionality and noise reduction instantaneously to optimize speech understanding in noise.
Directionality Controls	Fixed Dir offers maximum directionality over the entire frequency range of the hearing aid. This mode is for hearing situations with permanent noise across all frequencies. In the Fixed Omni mode, the hearing system amplifies sound from all directions and angles. It is suitable for quiet environments. True Directionality™ is a directional microphone system that imitates the natural function of the pinna. It enhances the natural hearing experience as well as speech understanding.
Low Frequency Enhancer	The Low Frequency Enhancer is a setting that allows you to increase the low-frequency signals from wireless devices such as the TV-A, mobile phones, etc.
DECS™ Dynamic Noise Management™ (DNM™) Dynamic Noise Reduction	Works binaurally and combines highly sensitive directionality with ultrafast noise suppression. Both systems interact and process the signal in parallel and reduce noise, without adversely affecting speech.
Dynamic Range Extender	Provides clear, undistorted sound even in louder environments of up to 113 dB.
Binaural Noise Management	Applies noise reduction to each ear independently when noise is louder on one side than the other. Clients will benefit from noise being reduced on one side while speech is still amplified appropriately from the other side.
Adaptive Feedback Canceller	Suppresses feedback before it becomes audible in all situations.
Transient Noise Reduction	Reduces loud, sudden sounds such as unwanted noise from dishwashers, rustling newspapers, etc. Reduces the chances of being startled and ensures relaxed listening in any environment.
Wind Noise Manager	Detects and suppresses wind noise. Increases comfort in windy situations.
Soft Noise Management	Reduces the soft noises or rustling created by the hearing aid, without suppressing the audibility of wanted soft noises.
Binaural Coordination	Continuous adjustment of both hearing aids with regards to volume, program selection, and mute function. Convenient handling, since manual changes are automatically transmitted to the second hearing aid.
RC-A	The remote control RC-A makes it easy to adjust the volume or change the program. It uses 2.4 GHz technology and can be easily coupled with the hearing aids without any software.
SoundClip-A	The SoundClip-A is a versatile accessory that allows the streaming of sound from nearly every audio device into the hearing aids. It enables communication at a distance and can also be used to change volume and pick up phone calls.
EasyControl-A app	The Bernafon app can be used to change program or volume, locate hearing aids with the „find my hearing aid function,“ or check the battery level.**
iPhone Mic	With the iPhone® microphone program enabled, the iPhone can be used as a conference or remote microphone. With iPhone Mic, the speech signals are transmitted directly to the hearing aids.**
TV-A adapter	The TV-A supports Dolby Digital Stereo and streams the TV signal directly into the Zerena hearing aids without any intermediate device. TV sound can be transmitted to several Zerena devices at the same time.
Made for all phones	Enables direct communication with iPhone®, iPad® or iPod® touch. The SoundClip-A enables sound streaming from Android™ phones and modern Bluetooth® devices.**
Tinnitus SoundSupport	Two-in-one hearing and tinnitus device with multiple tinnitus relief sounds. It can be easily activated and customized.
Adaptation Manager	Helps clients to get accustomed to their new hearing aids at their own pace. Adaptation Manager increases the gain automatically based on the rate that best fits each client.
Comfort in Airplane	Adjusts the noise reduction and directionality settings to reduce the noise in airplanes and make the journey more comfortable.
Live Music and Cinema Programs	Preserves the wide dynamic range and makes music and movies sound natural and alive again.
Sound optimizer	Provides assistance in setting the optimal sound for audio streaming.

STYLE OPTIONS



*Only available in black

BTE COLOR OPTIONS

TOP SHELL	<ul style="list-style-type: none"> jet black* cocoa brown* metallic anthracite metallic silver sand beige 	<ul style="list-style-type: none"> antique bronze metallic anthracite metallic silver* sand beige*
BASE SHELL	<ul style="list-style-type: none"> metallic silver MSIL 	<ul style="list-style-type: none"> metallic anthracite MAC

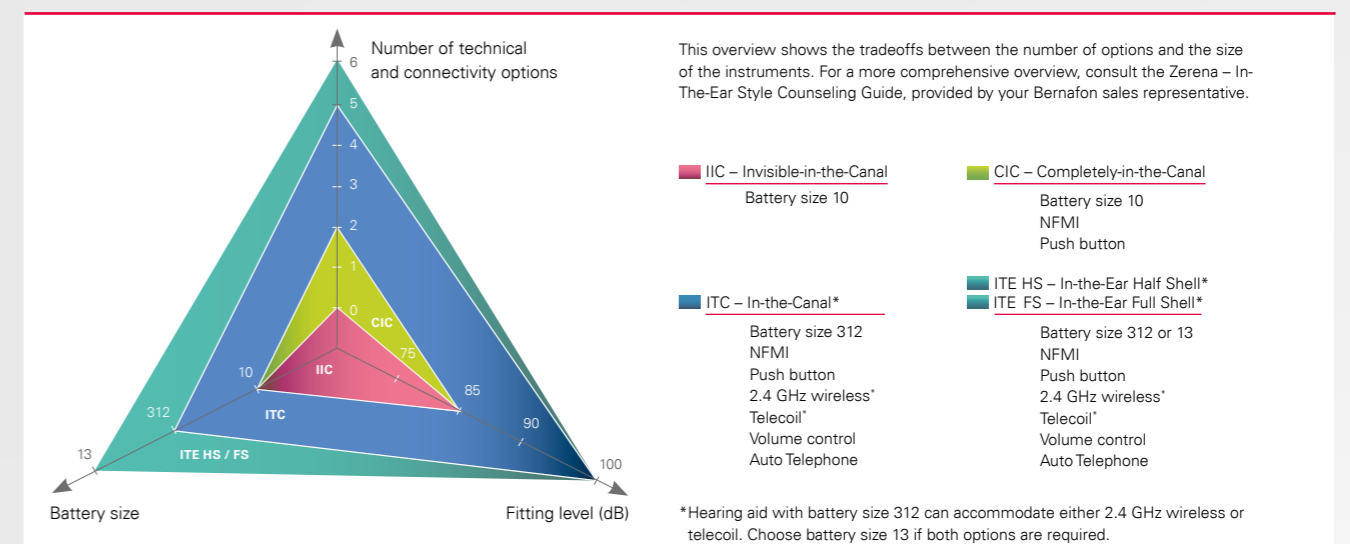
*Only available for Zerena 9 | 7 | 5

ITE COLOR OPTIONS

BE	LB	MB	DB	BL
beige	light brown	medium brown	dark brown	black*

*For IIC only

ITE FEATURE OPTIONS



- Sound
- Speech
- Hearing comfort
- Operating comfort
- Individualization

bernafon
Your hearing • Our passion

*The availability of some features may be dependent on technical constraints of hearing aid style. Please check Product Information of desired style for more details.

**For information on compatibility, please visit www.bernafon.com/products/accessories.