



THE TRUE TO LIFE EXPERIENCE







ANALOG TO DIGITAL CONVERTER

Simplified block diagram of a digital hearing aid

Microphones


Input Signal



Analog

A/D

Binary (Digital)




...1001101010100...

DSP

Digital Signal Processing


D/A



Analog



Receiver


Output Signal




ANALOG TO DIGITAL CONVERTER

Analog



A/D

Binary (Digital)



...1001101010100...

■ Accuracy of the A/D conversion will impact the following:



Input
Range

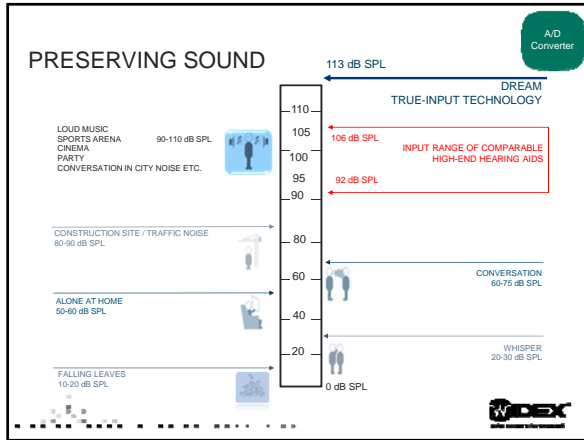
Sampling
Frequency

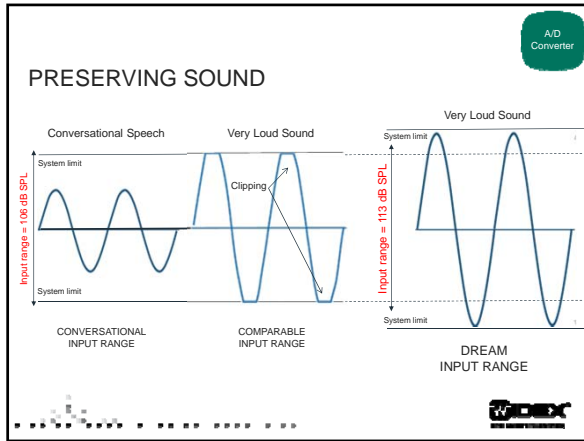
Bit Depth &
Dynamic
Range

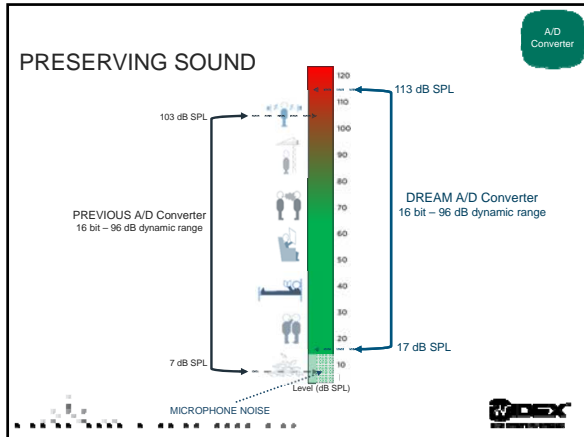
Internal
Noise

Battery
Consumption











WHAT DO YOU GET BY ADDING
WIDEX TO YOUR TOOLBOX?





BETTER CONNECTION TO LIFE





THE BENEFITS OF WIDEXLINK

WidexLinkTM




- Wireless transmission invented by Widex
- Proprietary high-speed wireless data transmission
- Designed specifically for hearing aids and acoustical information exchange
- Instant synchronization and coordination
 - 21 times a second
- Short and long range transmission

Best-in-Security



WidexLink

INTEREAR FEATURES





- IE Feedback Cancelling
- IE Volume Control
- IE Program Shift
- IE Acclimatization
- IE Zen
- IE Trusound Compression
- IE Speech Enhancer
- IE Partner Monitor

Dream 110, 220, 330, and 440

Dream 220, 330, and 440

Dream 440

WidexLink

DEX SOLUTIONS



M-DEX

FM+DEX

Phone-DEX

T-DEX

TV-DEX

RC-DEX






WHAT DO YOU GET BY ADDING WIDEX TO YOUR TOOLBOX?



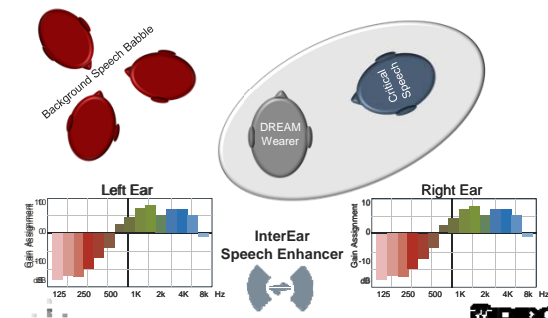




ULTIMATE HEARING IN NOISE

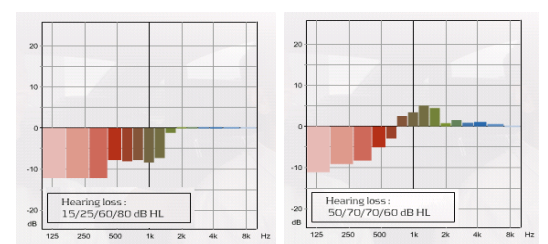
SPEECH ENHANCER AND INTEREAR SPEECH ENHANCER

Speech Enhancer





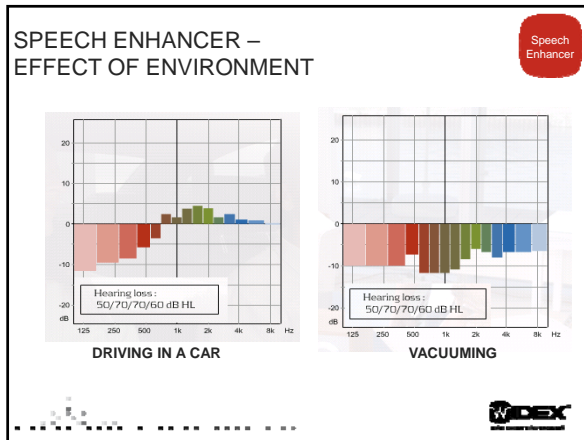
SPEECH ENHANCER – EFFECTS OF HEARING LOSS

Speech Enhancer

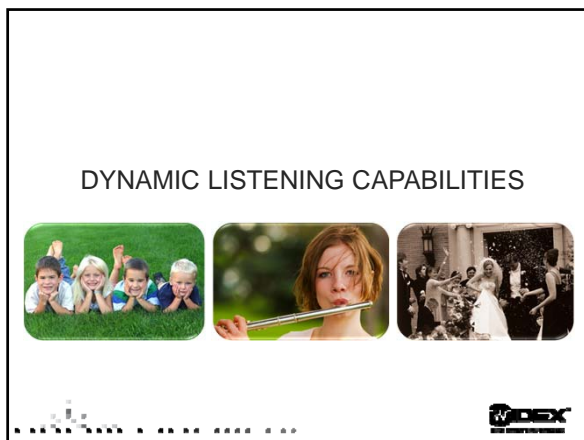


DRIVING IN A CAR









DIRECTIONALITY

Individual polar pattern in each of the **15** channels!

125Hz 250Hz 350Hz 500Hz 630Hz 800Hz 1k 1.2k 1.6k 2k 2.5k 3.2k 4k 6k 8k

WIDEX

INTEREAR FEEDBACK CANCELLATION

Is this really feedback?

Signals on right and left sides compared

Correlated
No Feedback Cancellation

Uncorrelated
Feedback Cancellation

WIDEX

**WHAT DO YOU GET BY ADDING
WIDEX TO YOUR TOOLBOX?**

WIDEX

HIGH FREQUENCY ACCESS

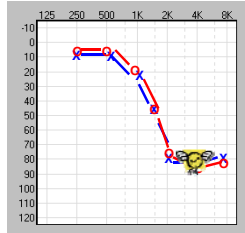


AUDIBILITY EXTENDER

- **Allows audibility** of previously "inaudible" sounds:

- Information in the high frequencies moved/lowered to lower frequencies that are audible.
- High frequency sounds are heard at lower frequencies.

- **Do not lower** if it can be amplified



Audibility Extender



FREQUENCY LOWERING TECHNIQUES LINEAR FREQUENCY TRANSPOSITION VS. COMPRESSION



Audibility Extender



WHAT DO YOU GET BY ADDING
WIDEX TO YOUR TOOLBOX?





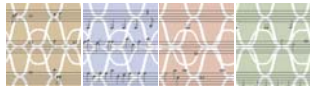
PEACE OF MIND



ZEN FRACTAL TONES & NOISE

Zen

- Proven to enhance relaxation response
- Induces passive listening
- 5 Zen Tone options
- Zen noise/shaped noise option*
- Filters sounds in accordance with individuals hearing loss
- Combination unit
 - With or without amplification



UNIQUE BENEFITS OF ZEN FRACTAL TONES

Zen

- Widex' patented Fractal Technology
- Randomized tones based off of the relaxing properties of music
- Promotes passive listening
- Habituation
- Music activates many structures of the brain



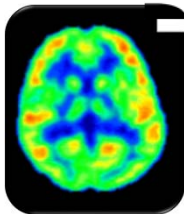
Both auditory stimulation and stress management can be addressed



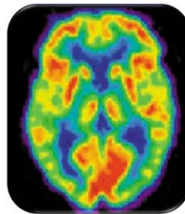
YOUR BRAIN ON MUSIC

Zen

The Brain at Rest



The Brain's Reaction to Music



ZEN- THE OPTIMAL CHOICE FOR SOUND THERAPY

Zen


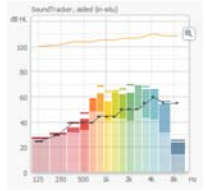
- Music elicits both physical and emotional response
 - Tears
 - Chills
 - Change in heart rate
 - Emotion




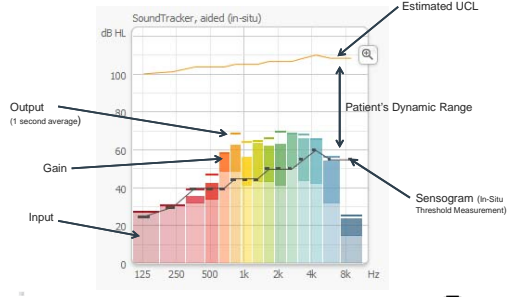
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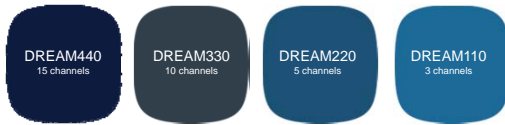
THE ABILITY TO SEE SOUND



SOUND TRACKER



DREAM FAMILY OF TECHNOLOGY



SUMMARY

- Widex offers you a wide variety of Tools that allow you the clinician the meet the hearing needs of your patients!
- Simple yet focused fitting process across the entire Dream Platform!
- Offering your patient a True to Life Sound Experience!



FOR ADDITIONAL QUESTIONS, PLEASE CONTACT
AOINQUIRY@WIDEX.COM OR CALL WIDEX AT 1-800-221-0188