



## Sound: Now this is a winning performance

Natural sound begins with a processor that's engineered for premium quality.



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## **Industry-Acclaimed System**

## Sound that's natural

- Speech Variable Processing
- Adaptive Feedback Canceller
- Best Fit Fast SE
- Frequency Transfer

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## **Speech Variable Processing**

- Speech
  - Is complex and dynamic
- Speed
  - Amplification must be applied appropriately to be correct
- Preserve
  - Frequency contrast to maintain clarity

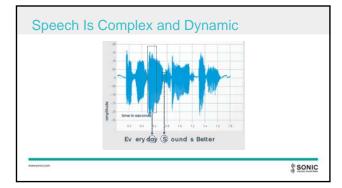
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## A Word About Speech

- Speech constantly varies
  - Individual sounds are long or short
  - Amplitude changes quickly and dramatically
- A healthy cochlea processes speech naturally
- Processing systems require sophisticated technology to replicate speech accurately

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## Speech Variable Processing (SVP)

- Phoneme Focus
   Quickly and
   accurately measures
   the incoming signal
   and applies gain
   appropriately,
   especially for very
   soft speech sounds
- Benefit

Makes sound clear and natural in a variety of listening situations

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Speech Variable Processing (SVP)	
New! Envelope Focus     Designed for certain     Senhances slower envelope components in the speech	
populations considering  • Age (>75 years old)  • Contrast between loud and	
High frequency hearing thresholds     High frequency hearing thresholds	
(>70 dBHL @ 2kHz+)  • Air-bone gap information  Makes sound clear and	
(> 20dB @ 3 consecutive natural in a variety of listening situations for some	-
populations	
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The Importance of Contrast	
A healthy cochlea preserves the natural clarity	
level differences across  • Must be able to	
phoneme differences between	
similar phonemes to  • This difference across be able to tell those	
frequencies is called phonemes apart Frequency Contrast	

Noise Management		
Incoming Signal  Memortar algod characteristics	Adaptive Feedback     Canceller     Uses phase cancellation     and a feedback monitor	
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## New! Fitting Rationale • Best Fit Fast SE (Speech Enhancement) • Emphasizes speech intelligibility • Great for patients who prefer fittings with more gain

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Something to shout about: speech understanding in noise  When it comes to better hearing, all sounds are not created equal.  Speech understanding in noise  **Speech understanding in noise  **Adaptive Directionality  **Wind Noise Reduction  **Speech Priority Noise Reduction		
Understanding in noise When it comes to better hearing, all sounds are not created equal.  Cheer  Speech understanding in noise  **Sounc**  **Sounc**  **Sounc**  **Sounc**  **Multiple Systems in Play  Speech understanding in noise  **Adaptive Directionality **Wind Noise Reduction  **Soft Noise Reduction **Soft Noise Reduction **Speech Priority Noise Reduction  **Speech Priority Noise Reduction  **Soft Noise Reduction **Speech Priority Noise Reduction  **Soft Noise Reduction **Speech Priority Noise Reduction **S		
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SONIC S	Reduction	
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Adaptive Directionality	
Quickly analyzes the incoming signal to determine the location of the loudest sound in each region	
The best polar response is applied independently in each	
region to improve signal-to-noise ratio	
"Cheer® & Cheer® Exclusive 1990ks 1509ks 2500ks 3400ks	
(° SONIC	
Noise Management	
Wind Noise     Benefit	
Reduction Relief from loud, Monitors for distracting wind noise	
uncorrelated noise	
(wind) between the directional	
microphones	
10000000000	
Noise Management	
Soft Noise Reduction     Benefit	
Uses expansion to Reduces distracting, manage the gain for low-level noise in the	-
low-level sounds environment	
while maintaining the gain for speech	

## Something to Shout About

- Speech Priority Noise Reduction (SPNR)
  - Monitors the input and determines the modulation "fingerprint" of the signal
  - Highly modulated signals are preserved where steady-state noise is attenuated

### • Benefit

 Provides comfort and preserves intelligibility of speech signals

www.conscience

SONIC

## Score one for Simplicity

Life is full of excitement. Cheer is ready for the adventure.



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## Simple, Accurate & Hands-Free Operation

Simplicity in everything we do

- Universal Environment
- Data Learning
- Binaural Coordination
- Wireless Connectivity

www.acmiccom

l Environmen

- Constantly monitors the listening environment for specific characteristics
  - Sound level
  - Presence of speech
  - Frequency content
  - Harmonics

 Specifically tuned to optimize speech-related cues maximizing speech intelligibility in noisy situations

www.nonco

SONIC

## Data Learning – Simple & Smart

- Adapts default amplification settings over time to match user preferences
- Benefit
  - Less hands-on needed with devices
- Tracks adjustments to instrument's volume control via
  - · Device itself
  - SoundGate
  - Remote Control

\*Cheer® Exclusive

ewww.com

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### Cheer the Balance of Binaural

- Binaural Synchronization
   Ensures changes made using local controls are made simultaneously to both ears
  - Program changes
  - · Volume control changes
- Non-Telephone Far Control\*

Ear Control\*
Automatically recognizes
the non-telephone ear and
reduces gain or mutes that
side

- Reduces environmental noise distractions
- Increases the perception of volume from the telephone

\*Cheer® Exclusive

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# Cheer for Everyday Connectivity • The convenience of wireless connectivity – at a great value

## SoundGate 3\* • The hub of connectivity accessories • Connects to virtually any Bluetooth® enabled products • Excellent battery life • Program and volume control changes • Works with SoundLink App \*Cheer® and Cheer® wireless models only

## SoundGate Mic • SoundGate Mic • Personal and private connection with SoundGate 3 • Clipped onto a conversational partner or placed in the middle of meeting room table • Lightweight and discreet







# RC-N • New! Remote Control • Increase/decrease volume • Program change • Larger, more visible buttons • Smaller and lightweight • Basic functionality for patients not interested in Bluetooth® connectivity

## FittingLINK • Minimize HCP effort and increase patient comfort during fitting sessions • Real Ear Fit • EXPRESSfit incorporates real ear verification into the fitting system • Achieve accurate fittings and improve patient satisfaction from the start



Cheer Can Really Attract a Crowd	
• miniRITE	
Style • Nano BTE	
that stands out • Power BTE	
Compact Power Plus	
BTE	
Full Custom offering	
**SONIC	
II) Secretaria	
	]
Style That Stands Out: BTEs	
4 behind-the-ear models	
Contemporary designs     Slim miniRITE and Nano	
BTE offer discreet options	
New! Power BTE & Modelity* Name BTE Compact Power Plus for	
more severe needs	
**Cheer® and Cheer® only	
(* SONIC	
New! miniFIT System	
Fitting BTEs has never been easier with miniFIT	
Complete system with updated thin tubes,	
speakers, and domes offering peak performance	
<ul><li>and convenience</li><li>Compact kit to keep all Cheer acoustic</li></ul>	
accessories together	



