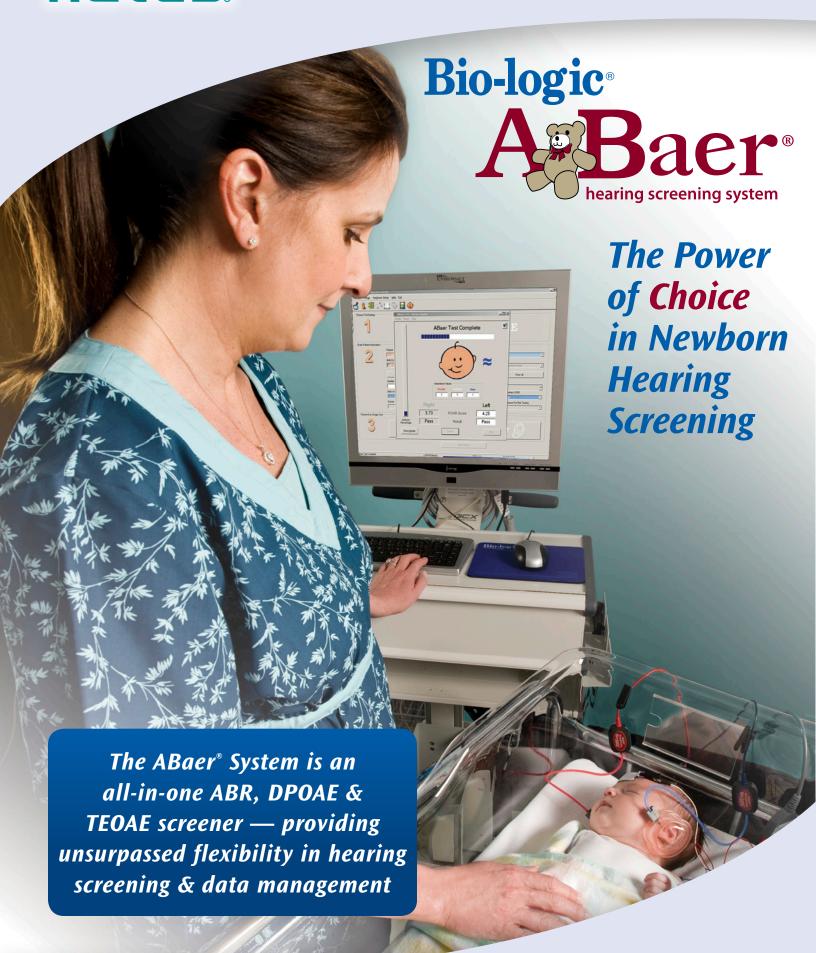
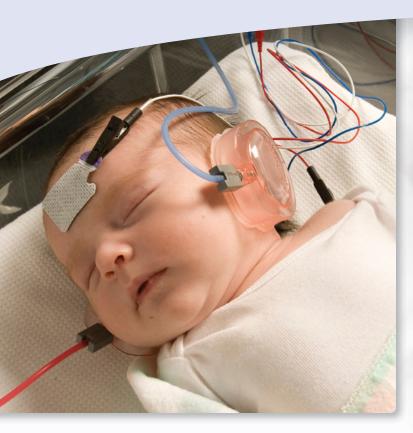
natus



THE ABAER HEARING SCREENER PROVIDES FLEXIBLE SOLUTIONS FOR MEETING PROGRAM REQUIREMENTS & ACHIEVING CONTINUOUS QUALITY IMPROVEMENT GOALS



ALL-IN-ONE ABR, DPOAE & TEOAE SCREENING SYSTEM

ABR technology

Utilizes proprietary Point Optimized Variance Ratio (POVR) Algorithm

- Developed by the House Ear Institute, a leader in auditory research since 1946
- Efficient screening
- Test automatically stops if the probability of achieving a PASS result is very low
- Statistically proven
- 99.96 % theoretical statistical bilateral sensitivity
- 95 % specificity



Distortion Product Otoacoustic Emissions (DPOAE)

- High sensitivity for cochlear hearing loss
- Frequency specific screening: 2, 3, 4, and 5 kHz
- Fast test times
- Approximately 10 seconds per ear
- In-the-ear stimulus calibration and ear probe stability check prior to testing

Transient Evoked Otoacoustic Emissions (TEOAE)

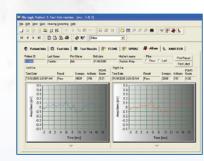
- High sensitivity for cochlear hearing loss
- Testing frequency range: 1.2 to 3.5 kHz
- Fast test times
- Approximately 10 seconds per ear
- Ongoing ear probe stability check throughout the test

Multiple Technology Configurations

- ABR, DPOAE & TEOAE technologies are available in different combinations
- Ideal for one-stage, two-stage or combined screening protocols

FAST & SIMPLE OPERATION

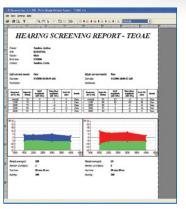
- Keyboard/mouse functions provide easy navigation
- Colored, graphical displays guide you easily through the screening process
- Patient ABR waveforms are available for viewing
- Automated pass/refer results
- Pre-set screening parameters
- no user adjustments necessary
- Tutorial videos provide helpful tips on how to conduct a screen



Waveforms available for viewing

FLEXIBLE DATA TRANSFER & DATA MANAGEMENT

- Stores an expanded set of patient demographic data
- User-definable data entry fields are available to meet program requirements
- Provides customizable reports for parents & physicians
- Access to screening database & statistical reports can be restricted to authorized individuals via password
- Includes built-in data management software
- Compatible with 3rd party data management systems such as OZ SIMS & Hi*Track



Customizable Patient Report

- Export results to personal computer via CD or USB
- Barcode reader available for input of medical record numbers



Automated PASS Result

BUILT-IN CONTINUOUS QUALITY IMPROVEMENT

- Generates statistical reports on program outcome measures
- Hospitals can monitor the effectiveness of their screening program on an ongoing basis

CONVENIENT SCREENING WORKSTATION

- Cart allows easy transport of ABaer System to different locations
- Spacious drawer & basket are available for storing screening supplies



The ABaer Hearing Screening System includes:

- ABaer screener with panel PC
 Insert earphones or laptop computer
- Screening cart
- Data management software (built-in)
- Electrode (patient) cable
- OAE probe (optional for ABR, included with OAE)

- with adapters
- Deskjet printer (optional)
- Seiko label printer (optional)
- · Supply starter kit
- Instructional materials

Ordering Information:

ITEM	PART NUMBER
ABaer, ABR, Label Printer	AB1001
ABaer, ABR, Regular "PC" Printer	AB1002
ABaer, ABR, Label Printer, OAE Probe	AB1003
ABaer, ABR, Regular "PC" Printer, OAE Probe	AB1004
ABaer, ABR, DPOAE, Label Printer	AB1005
ABaer, ABR, DPOAE, Regular "PC" Printer	AB1006
ABaer, ABR, TEOAE, Label Printer	AB1007
ABaer, ABR, TEOAE, Regular "PC" Printer	AB1008
ABaer, ABR, DP & TEOAE, Label Printer	AB1009
ABaer, ABR, DP & TEOAE, Regular "PC" Printer	AB1010

Technical Specifications:

ABaer interface device:

Dimensions:

7.6 x 4.0 x 1.7 inches 19.4 x 10.1 x 4.4 cm (H x W X D)

Weight:

14 oz (400 grams)

POWER SUPPLY

6 V DC

ABR DATA ACQUISITION

Analysis Time (window length) 21.33 msec

A/D Resolution 16 Bit **Artifact Rejection** >13 uV **Points Per Trace** 256

Electrode Montage Forehead to Test Ear or

Forehead to Nape of Neck (dependent on transducer choice)

ABR AMPLIFIERS

Channels 1 Optically Isolated

x30,000 Gain 100 Hz High Pass Filter 1500 Hz Low Pass Filter

CMR Ratio >110 dB, at 50/60 Hz Impedance Test Internal, 1000 Hz sine wave

ABR STIMULUS

100 µs click Type Polarity alternating 37.1/sec Rate

Intensity 35 dB nHL default (option for 30 or 40

dB nHL as an alternative)

ABR TRANSDUCER CHOICES

ABaer Probe (OAE-type)

Insert Earphones with in-the-ear tips Insert Earphones with Halo Ear Muffin®

TDH-39 headphones

System requires PC with dedicated USB and Windows® XP Professional operating

Bio-logic-supplied PC specifications are available upon request.

Five-caster cart accommodates ABaer module, laptop or panel PC, deskjet printer, isolation transformer and supplies.

Designed to meet the following standards:

IEC 60601-1 Class II

UL 2601-1

CSA-C22.2 No. 601.1

AAMI-ES1

CE Certified

Contact your local customer service representative

for more information.

Note: Specifications are subject to

change without notice.

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Trusted Reliability. Flexible Innovation. Proven Excellence.

