

# SmartScreener-Plus2

the baby and user-friendly

ABR and OAE

hearing screener

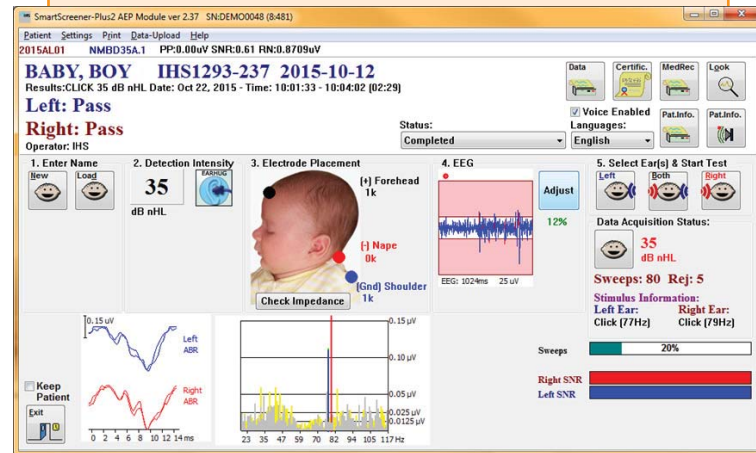


# easy to use

SmartScreener-Plus2 is the most cost-effective, complete, and easy to use infant hearing screener. It is simple to operate, with step-by-step visual operator instructions. Friendly voice prompts and alerts guide you through the screening process.

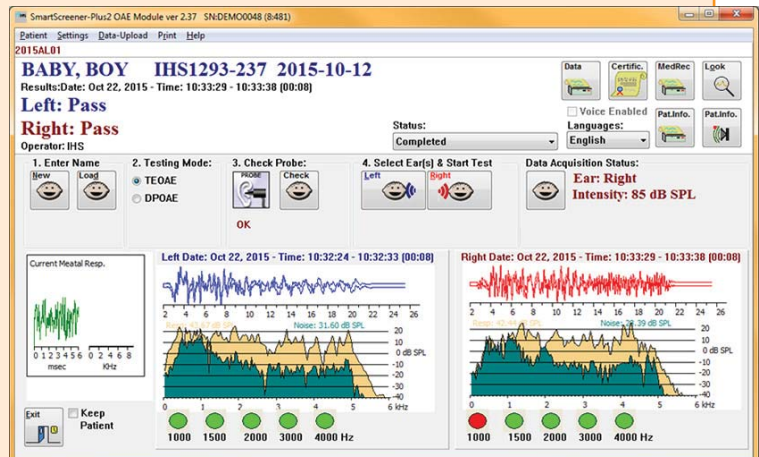
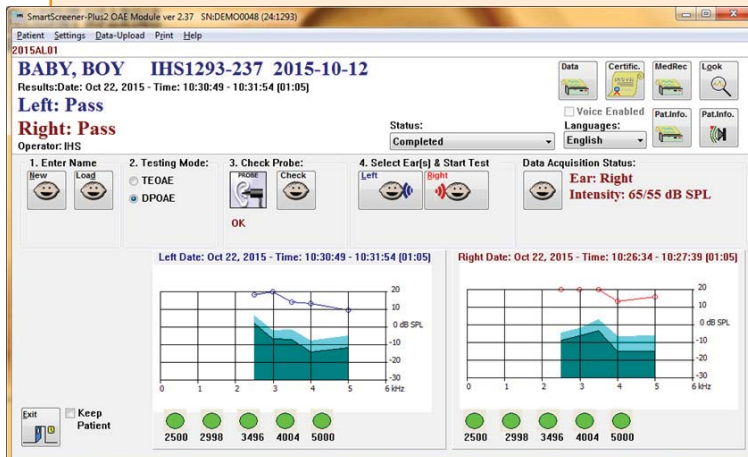
- Your choice of automated ABR, OAE, or both
- Automatic Pass or Refer results
- Fast, accurate, and reliable
- Screening results in as little as two minutes for ABR, and less than a minute for OAE
- Test patients of any age
- Setup different users with varying access levels
- Helpful graphics such as ABR waveform, DPGram, and frequency analysis results
- Integrated Data Back-Up utility allows for a seamless transfer of results to central databases for easy export to Hi\*track, OZ-esp, and other databases
- Easily customize and print certificates, parent information letters, and medical records
- Quickly categorize and track pending and completed screenings
- Built-in System Maintenance Utility for easy system checks and automated AEP data analysis
- Documents & Videos Module can be setup as desired using user-supplied materials

## ABR Screening



- Simultaneous testing of both ears
- Fast, mid-line ABR recording electrode setup
- ABR recording electrode placement and impedance values shown on the screen
- Password protected, user-selectable intensity level

## DPOAE & TEOAE Screening



- Automatic probe-fit check to verify proper probe placement
- Ear canal response graph shows quality of probe placement when screening with TEOAE
- DPOAE and TEOAE screenings show passing status for each frequency band
- Password protected, customizable passing criteria and frequency selection

# ergonomic ScreenerCart

Ideal for testing at the mother's bedside.

- Convenient height adjustment
- Ample work surface with raised edges and document cover
- Contoured front and rear handles for easy maneuverability
- Built-in bins to store all supplies and documentation
- Easy-to-disinfect keyboard with protective cover
- Integrated keyboard and mouse surface with a keyboard light; work without waking up the baby
- Smooth, non-porous surfaces for easy cleaning, infection control, and durability
- Battery operated: test even when you have no access to an outlet
- Notebook PC & system secured in key-locked compartment
- Coiled power cord for easy cable management
- Convenient wheel locking mechanism
- Built-in isolation transformer



## baby-friendly EarHug

Designed with the baby's comfort in mind.

- Cost-effective disposable ear coupler
- Special flexible material adheres to the skin firmly but is gentle enough for comfortable removal
- Large adhesive surface keeps the EarHug from detaching during screening
- Comfortable design allows the baby to easily fall asleep even when lying on the EarHug





# Specifications

## ABR Modality (USBLite & Solo)

High Pass: 30 Hz

Low Pass:

USBLite: 1500 Hz

Solo: 1800 Hz

Stimulus type: Click

## DPOAE Modality (USBLite only)

Stimulus: type:

4 or 5 user-defined frequency pairs

Default DP frequencies:

2000, 2800, 3500, 4200, 5000 Hz

Intensity levels L1/L2: 65/55 dB SPL

## TEOAE Modality (USBLite only)

Stimulus type: Click

Intensity: 85dB SPL

## EP Amplifier

One channel

A/D Converter: 16-bit

Artifact rejection:

adjustable level

Line Frequency Notch Filter

(-12 dB/Oct) 50 or 60 Hz

Common Mode Rejection:

USBLite:  $\geq 110$  dB @ 1 kHz

Solo:  $\geq 115$  dB @ 1 kHz

Noise Level (30-1500 Hz):

USBLite:  $\leq 0.13$   $\mu$ V RMS Input

Solo:  $\leq 200$  nV RMS Input

Impedance:  $> 10$  MOhms

## Standards Compliance

Safety: IEC 60601-1 Class II, Type BF

EMC: IEC 60601-1-2

EP: IEC 60601-2-40

Medical Device Directive: 93/42/EEC

## Transducers

ER-3 Insert Earphones:

Intensity: 0 - 130 dB SPL

Frequency Range: 125 Hz - 8 kHz

TDH Headphones:

Intensity: 0- 120 dB SPL

Frequency Range: 125 Hz - 8 kHz

ER-10D OAE Probe (USBLite only):

Intensity: 0 - 100 dB SPL

Frequency Range: 125 Hz - 8 kHz

## Operating Environment

Portable Equipment

Indoor use

Operating temperature: 15 °C - 35 °C

Relative humidity:

15% - 90% at 40 °C non-condensing

## Storage

Temperature: 0 °C - 50 °C

## Power Requirements

USB Powered:

USBLite: +5V DC, 1.0 A 5W

Solo: +5V DC, 0.65 A 3.25W

USB ports: 2 for USBLite, 1 for Solo

## Computer Requirements

Windows 7, 8, or 10 operating system

Minimum 4 GB RAM

Minimum 5 GB hard drive space

Minimum XGA display

(1024x768 screen resolution)

Mouse or other pointing device

USB Ports as per power req.

Grounded (3-prong) power supply

Removable media, network drive, or  
secure Internet storage site for data  
backup (recommended)

Printer (optional)



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