AUDITORY DIAGNOSTIC TESTING

vivosonic

The Integrity™ V500 ABR System is well suited for infant and special needs patients, and also works well for adult diagnostics in less than perfect test conditions. Our unique technology provides excellent performance in electrically noisy environments, even with awake but calm and quiet patients. The wireless patient module sends test data to the clinician's PC up to 30 ft. away and provides safe physical distancing or patient mobility when necessary. The Integrity™ is portable and well suited for teleaudiology applications.

ONE CUSTOMIZABLE SYSTEM

Screening and Diagnostic ABR

ECochG ◆ Cortical AEP ◆ ASSR ◆ DPOAE ◆ TEOAE ◆ VEMP

With advanced **noise-reduction technology** and **wireless convenience,**

integrity™ V500

Auditory Diagnostic System

- **Provides clear, reliable assessments** (even in the NICU / O.R.)
- **Reduces the need for sedation**

Innovation for Better Outcomes

www.vivosonic.com

IMPROVED CLINICAL EFFICIENCY

Which issues impact your clinic the most?

- ❑ Electromagnetic interference and myogenic artifacts
- ❑ Restricted patient movement and positioning
- ❑ Costs, inconvenience and risks of sedation
- ❑ Multiple appointments - Delayed diagnoses
- ❑ Calibration errors
- ❑ Lengthy test times and artifact rejected sweeps
- ❑ Difficulty with Bone Conduction testing
- ❑ Inability to test in ICU and O.R.
- ❑ Poor waveform morphology
- ❑ Lack of portability

UNIQUE ADVANTAGES OF INTEGRITY™ V500

- Based on patented Amplitrode® technology, the **VivoAmp™** provides the latest advances in amplification and prefiltering, which reduce negative contributions from EOG, ECG, EEG and RF in order to provide maximum noise reduction.
- **SOAP™** Adaptive Processing, a patented noise-reducing algorithm, based on Kalman Weighted Averaging, cleans electrophysiological signals and ensures exceptional response detection, without the need for traditional artifact rejection.
- Unique, **VivoLink™ wireless** recording technology provides freedom of movement and enables caregivers to comfort, hold and stroll with infants during testing.
- Time-saving technology:
  - Simultaneous display/tools of two statistically independent waveforms quickly evaluate **waveform repeatability** and residual noise.
  - **Calibration files stored in transducers** provides easy interchangeability.

REDUCES THE NEED FOR SEDATION BY 66-92% [1,2]

REDUCES HEALTHCARE COSTS BY UP TO $5,000 USD PER PATIENT [3,4]

AVERAGE TIME FOR ABR ASSESSMENT REDUCED TO 1 HR. 20 MIN. INSTEAD OF 3 HR. [5]

Video: *Introduction to Vivosonic Integrity™ ABR*
Scan code to view our video or contact us for a demonstration:

1. Hall JW III, Sauter T (2010). Clinical Experience with New Technology For Recording Un-Sedated ABRs.
2. Sebzda JM (2010). Pediatric ABR testing without sedation? Is it possible?
3. Cone B, Norrix LW. University of Arizona. "Measuring the Advantage of Kalman-Weighted Averaging for Auditory Brainstem Response Hearing Evaluation in Infants". American Journal of Audiology, May 22, 2015. doi:10.1044/2015_AJA-14-0021, 2015.
4. Cone B, Dean J, Norrix L, Velenovsky D (2013). Innovations in the Electrophysiologic Assessment of Infant Hearing: Cost Model.
5. Walker B (2012).Clinical Significance of Advanced ABR Technology for Newborn Hearing Screening Programs.

RECENTLY ADDED FEATURES

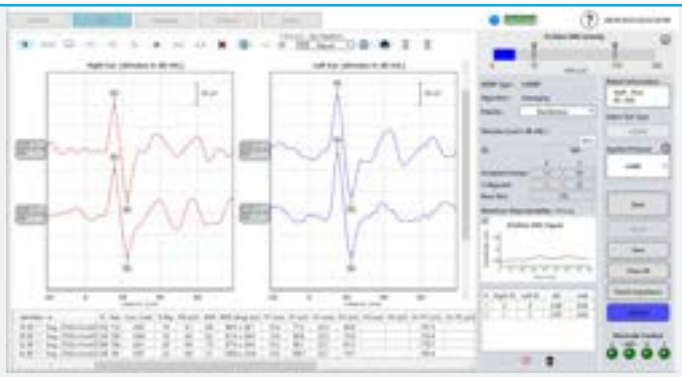
integrity™ V500
Auditory Diagnostic System

NEW TESTING MODALITY!

VEMP with EMG MONITORING

- **Convenient cVEMP and oVEMP Testing**
- **Clear, Uncluttered Displays**
- **Easy-to-Read Test Results**

External monitor display for personalized biofeedback

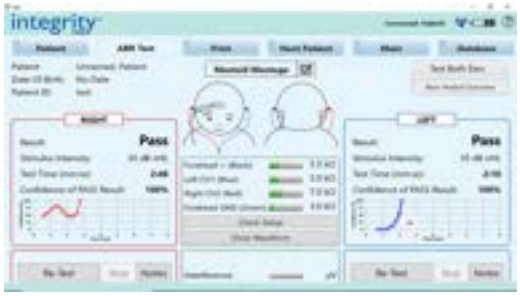


UPDATED ASSR

- **New, More Convenient User Interface**
- **Time-Saving Confidence Options**
- **Manual Detect**
- **Ability to have Frequency Test as Single/Bundled/Off**
- **Up to 4 Tests in a Test Session Record**

ABR SCREENER

- **Moving Average Confidence Display**
- **Montage Confirmation of Electrode Setup**
- **Display Waveform**
  - Show waveform with norms, as if collected with Diagnostic ABR



DPOAE Improvements:

- Minimum stimulus level of 30 dB and improved handling of probe errors
- New OAE Probe with foam disposables and replaceable nose

NEW FEATURES FROM EARLIER RELEASES:

- **Fsp and SNR** (In addition to Correlation Coefficient)
- **Waveform Smoothing** (Choice of 4 levels)
- **Up to 50 traces and Complete Assessment on a Single Record**
- **Table of Interaural Differences** (For ABR, MLR and LLR)
- **Cortical Mid-Latency and Late-Latency Response with CV-Amp**
- **Two-Channel System, with One-Channel Mode to Deal with Extra Noise**
- **Frequency Specific VF Chirp** (Conforming to IEC 60645-3: 2020 Standard)
- **6 and 8 kHz ABR Testing** (Using ER-2 Insert Earphones and TDH-39 (H-801) Headphones)

Check out the latest features!

https://bit.ly/integrity-latest-features

vivosonic
The Benefits of Sound Technology

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CUSTOMIZABLE SYSTEM

Screening and Diagnostic ABR, ECochG, Cortical AEP, ASSR, DPOAE, TEOAE, VEMP

STANDARD COMPONENTS

All Integrity™ V500 Systems include:

VivoLink™ Wireless Interface Module, Laptop Computer (preloaded with selected Integrity™ software, User Manual and Learning Library), Battery Charger, 2 Sets of Custom Battery Packs, Pediatric Shoulder Strap and Carrying Case.

+ PLUS one or more of the following packages, depending on the purchased test modalities:

Also included in all Integrity™ Systems with

ABR / ECochG, ASSR

- ABR and ECochG Software and Licenses. Optional ASSR.
- Base Integrity™ V500 2-Channel ABR System which includes:
- VivoAmp™ with Snap-Clip Electrodes for G2 System
- ER3-C or IP30 Insert Earphones
- B81 Bone Conductor
- ECochG Lead Cable for VivoAmp™
- Starter set of disposables including Ear Tips and Electrodes

Base Integrity™ V500 2-Channel ABR System

Also included in all Integrity™ Systems with

OAE

- OAE Software and License
- Vivosonic OAE Probe (GT with Silicone Ear Tips or GX-A with Foam Ear Tips)
- Probe Holder
- Probe Cleaning Tool Set
- Ear Tip Set

Also included in all Integrity™ Systems with

Automated ABR (Screening)

- Automated ABR Screening Software and License
- Alligator Clip Lead Set and Snap-Clip Lead Set for VivoAmp™
- VivoTab™ Electrodes

BALANCE TESTING OPTIONS

VEMP System

Includes: Integrity™ System, VEMP Software and License, CV-Amp™, ER3-C or IP30 Insert Earphones, B81 Bone Conductor, Starter set of disposables including Ear Tips and Electrodes

Neurodiagnostic ABR System

Includes:

- ABR Software and License
- Base Integrity™ V500 2-Channel Click ABR System, which includes:
- VivoAmp™ with Snap-Clip Electrodes for G2 System
- ER3-C or IP30 Insert Earphones
- B81 Bone Conductor
- ECochG Lead Cable for VivoAmp™
- Starter set of disposables including Ear Tips and Electrodes

VEMP Module Add-On

(May only be purchased as add-on software to a 2-channel Integrity™ System, with VivoLink™ serial number beginning with 'VR')

Includes:

- VEMP with EMG Monitoring Software and License (cVEMP and oVEMP)
- CV-Amp™

Balance Testing Package

Includes:

- **Neurodiagnostic ABR System and VEMP Module above**

OPTIONAL ACCESSORIES

TDH-39 headphones are an alternative to the ER-3C earphone inserts, plus provide high-sensitivity, low distortion and a wide, smooth frequency response up to 8,000 Hz.

ER-2 Insert Earphones for high-frequency ABR testing at 6 and 8 kHz to identify 1) hearing loss from ototoxicity in infants and young children, and 2) high-frequency hearing loss in older children and adults.

The CV-Amp is for Cortical MLR/ LLR and VEMP testing, and is supplied with a set of leads with reusable gold and snap electrodes.

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