Setting The Clinical Standard

GSI Audera OAe Probe
- Superior probe design for neonatal to adult testing
- LED indicates test status
- Backward compatible with all GSI Audera systems

GSI Audera is Compatible With Most Personal Computers
- 32-bit application software operates in several versions of Windows
- Operates with display resolution of 1680 x 720 or higher
- Uses standard Windows drivers for printing on the device of your choice
- Patient databases can be backed up on most Windows-compatible archiving devices

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**Features**

**GSI Audera Main Unit**
- Separate output jacks for left, right and bone transducers, and a free-field speaker output eliminates time wasted switching between transducers
- Built-in mains isolation transformer for safety provides isolated power for a notebook computer and an inkjet printer
- Standard USB interface connects to virtually all of the latest computers
- Standard USB interface connects to the GSI Audera digital amplifier subsystem

**GSI Audera Digital Amplifier Subsystem**
- Small size and weight facilitate convenient placement near the patient
- Full two-channel capability for ipsilateral/contralateral ABR recordings
- Isolation for patient safety
- Digital connection to main unit minimizes interference from external noise sources
- Built-in impedance measurement with LED readout at the amplifier minimizes preparation time

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**It is now recognized that early intervention is critical to speech and language development in hearing impaired infants and children. Available interventions include fitting a hearing aid before six months or performing a cochlear implant as early as one year of age. Selection of the proper plan requires accurate, detailed information about the hearing loss at all frequencies important for speech and language development. This makes it critical that hearing clinicians have an objective, reliable method for measuring frequency-specific hearing thresholds in infants and children as early as possible.**

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**The Demand**

Universal newborn hearing screening using OAE and ABR technology is expanding globally. This result in that more infants require diagnostic follow-up testing. Consequently, there is a greater demand for accurate and frequency-specific hearing assessment of these infants. In addition, there are applications in older children and adults for frequency-specific objective testing.

**The Solution**

Auditory Steady State Response (ASSR) is the solution for frequency-specific hearing assessment for people of all ages. Also called the steady-state auditory evoked potential (SEEP), ASSR meets all the criteria for follow-up diagnostic testing.

**Auditory Steady-State Response**

- **Can be reliably recorded in sleeping neonates, children and adults.**
- **Are evoked by frequency-specific tonal stimuli.**
- **Can be detected objectively using statistical algorithms.**
- **Have thresholds that are highly correlated with behavioral audiomgram thresholds.**

And now the ASSR solution is available in a clinical instrument — the GSI Audera.

**Delivering AEP, ASSR and OAE**

**ASSR Software Features:**
- Clinically-validated protocols - University of Melbourne
- All ASSR information is shown in a single display
- Continuous live display allows easy monitoring of ongoing EEG signals
- Electrode attachment integrity can be assessed with a one-button, on-screen impedance measurement
- For the 250-5000 Hz frequency range
- Objective ASSR detection using patented algorithms eliminates tester subjectivity and provides quality control
- ASSR thresholds can be measured to 0.5 dB accuracy
- The behavioral audiomgram is estimated using patented algorithms, and a confidence interval is calculated for each threshold
- With one click of a button, quickly change between displaying individual trial results, ASSR threshold plots, and estimated audiograms
- Provide reports on screen and print them in full-size, single-page format in black and white or color

**AEP Software Features:**
- Click, tone pip and tone burst stimuli with contralateral masking available
- No predefined limits on number of waveforms displayed
- Multiple panels of waveforms displayed simultaneously
- Continuous live display of ongoing input signals
- Display results for different tests, recorded with different time bases, in a single chart
- Unlimited number of user-defined test protocols
- Built-in, one-button electrode impedance measurement
- Data collected with different protocols can be displayed in the same chart or different charts
- User-definable marker/measurement tables
- Continuous live display of ongoing input signals

**OAE Software Features:**
- All OAE information is shown in a single display, including the FFT
- Giligan's provide input-output function analysis
- Automatic scoring available for DPOAE
- Continuous live display of ongoing input signals
- Masking available

**As hearing healthcare technologies have developed, the user number of potential features can become quite overwhelming. This is why GSI has always worked closely with our Partners to identify and prioritize what product functionality is most important to them, how it should be conveyed, and what will provide maximum user and patient benefit.**

**Setting The Clinical Standard**

For over 60 years Grason-Stadler (GSI) has been “Setting The Clinical Standard” in Audiology, Tympanometry and hearing healthcare diagnostics. Far more than a slogan, it is embodied in our corporate DNA and is the driving force behind everything we do.

Market feedback confirmed that GSI is seen as the Clinical Standard. It also established the three attributes most identified with the GSI brand: Quality, Reliability, User-Friendly.

**Quality**

Quality was by far the most frequently used word by our partners to describe the company and the brand. Product quality has been a hallmark of the GSI brand over the years, and remains the cornerstone of our association with the company.

**Reliability**

Reliability, durability, toughness, trustworthiness, GSI products passed industry expectations regarding reliability. It has become another way of defining the organization and a proven benefit of a partnership with GSI.

**User-Friendly**

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