

# GSI AUDERA<sup>TM</sup> DPOAE

## Distortion Product Otoacoustic Emissions

### PRODUCT SPECIFICATIONS

#### GENERAL SPECIFICATIONS

Test Types: Distortion Product Otoacoustic Emissions, Spontaneous OAE, Input/Output DPOAE  
 Protocols: Default Diagnostic and Screening, Customer Configurable  
 Display: DPgram, FFT plot, I/Ogram, Signal/Noise Ratio of selected point, Compare Test (sequential test comparisons, multiple test, multiple days)  
 Reports: Color, Black/White or save as PDF

#### DPOAE Stimulus Tones:

Frequency: 500 – 12,000 Hz  
 Level: 20 – 80 dB SPL, in 5 dB steps  
 Accuracy: ± 3 dB  
 Harmonic Distortion: ≤ 1.8% at 80 dB SPL, IEC 711 coupler, 500 – 12,000 Hz  
 Dynamic Range: 85 dB SPL, IEC 711 coupler, 500-12,000 Hz, F1 & F2 = 65 dB SPL  
 Octave Ranges: 500-1000, 1000-2000, 2000-4000, 4000-8000, 8000-12000 Hz  
 Points per Octave: 1 – 12 points  
 F2/F1 Ratio: 1.1 – 1.8  
 Test Time: Varies, depending on test parameters, environment, and scoring options

#### Status Indicators:

Probe LED: Green solid – test in progress  
 Yellow solid – seal check in progress  
 Yellow flashing – test stopped, probe problem/seal check failed

#### OAE Pod/Probe:

Dimensions: 106mm (L) x 43mm (W) x 30mm (D)  
 Weight: 0.20 kg  
 Interface to GSI Audera Base: 25 pin D-SUB connector

#### GSI AUDERA MAIN UNIT

Computer Interface: USB - Type I  
 Trigger Controls Input/Output: Standard TTL logic level  
 Mains Power Supply: 115V, 110V, or 230V; 50-60 Hz  
 Power Consumption: 115W, excluding printer

#### Isolated Power:

- a) Main unit includes isolation transformer/power supply which provides isolated mains power only for supported notebook computer and inkjet printer models. This power typically not used in desktop models of GSI Audera.
- b) Main unit provides isolated power to Amplifier/Digitizer or Probe Unit.

Dimensions: 490mm (H) x 330mm (W) x 270mm (D)  
 Weight: 3.2 kg

#### Environmental Limits:

Operating Temp: 10 to 40° C, Relative Humidity: 30 to 75%, non-condensing  
 Storage Temp: -40 to 70° C, Relative Humidity: 10 to 100%, non-condensing

#### CPU RECOMMENDATION

Operating System: Windows XP Pro  
 Processor: 1.4GHz Celeron or above  
 Storage: 20 Gb harddrive  
 Additional Storage: CD R/W drive  
 Interface: USB (Qty 2)  
 Graphics: 1024 x 768 SVGA

#### SUPPLIED ACCESSORIES

GSI Audera Main Unit  
 GSI Audera Reference Manual  
 GSI Audera OAE Probe/Pod with Test Cavity  
 GSI Audera OAE Calibration CD  
 GSI Audera DPOAE Software Application or Licensing key to activate  
 GSI Audera DPOAE User's Manual  
 GSI Audera Shoulder Mount Kit  
 Eartip Kit, Infant  
 Eartip Kit, Child/Adult  
 Eartip Kit, Adult  
 Probe Cleaning Floss & Instructions

#### OPTIONAL ACCESSORIES

GSI Audera Service Manual  
 GSI Audera Laptop Computer  
 GSI Audera Desktop Computer  
 GSI Audera Laptop Power Kit (cables to power through base unit)  
 GSI Audera Isolation Transformer (for customer desktop systems)

#### RELATED PART NUMBERS

2001-9700 GSI Audera AEP/ASSR System  
 2001-9705 GSI Audera AEP/DPOAE System  
 2001-9710 GSI Audera ASSR/DPOAE System  
 2001-9715 GSI Audera AEP/ASSR/DPOAE System  
 2001-9720 GSI Audera AEP only System  
 2001-9725 GSI Audera ASSR only System  
 2001-9730 GSI Audera DPOAE only System  
 2001-9661 GSI Audera ASSR Upgrade with Amplifier  
 2001-9662 GSI Audera ASSR Upgrade w/o Amplifier  
 2001-9663 GSI Audera AEP Upgrade with Amplifier  
 2001-9664 GSI Audera AEP Upgrade w/o Amplifier  
 2001-9665 GSI Audera DPOAE Upgrade

#### QUALITY SYSTEM

Manufactured, designed, developed and marketed by VIASYS Healthcare Inc. NeuroCare Group under ISO 13485, ISO 9001 certified quality system.

#### COMPLIANCE / REGULATORY STANDARDS

Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards:

**UL 2601-1** American Standards for Medical Electrical Equipment.  
**IEC 601-1, EN 60601-1** International Standards for Medical Electrical Equipment.  
 CSA C22.2 # 601-1-M90.  
 Medical Device Directive (MDD) (ID No.: 0344) to comply with "EC Directive" 93/42/EEC

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