



GSI AUDERA™ 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 PDF
- DPOAE Stimulus Tones:
- Frequency: 500 – 12, 000 Hz
- Level: 20 – 80 dB SPL, in 5 dB steps
- Accuracy: ± 3 dB
- Harmonic Distortion: $\leq 1.8\%$ 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: 1.69"(W) x 1.18"(D) x 4.17"(H)
- Weight: .44lb
- 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.
- b) Main unit provides isolated power to Amplifier/Digitizer or ProbeUnit.
- Dimensions: 12.99"(W) x 10.62"(D) x 1.67"(H)
- Weight: 7.05lb

Environmental Limits:

- Operating Temp: 50° F to 104° F
Relative Humidity: 30 to 75%, non-condensing
- Storage Temp: -40° F to 158° F
Relative Humidity: 10 to 100%, non-condensing

CPU Recommendation

- Operating System: Windows 7 Professional (32 bit & 64 bit), Windows XP Pro (SP3), Vista Business (SP2)
- Processor: 1.6 GHz
- Minimum RAM: 2 GB
- Storage: 11 GB Hard Drive
- Additional Storage: CD R/W drive
- USB Ports: 2
- Graphics: 1024 x 768 pixels (1280 x 1024 for China, Japan, Korea)

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

- GSI Audera AEP/ASSR System. 2001-9700
- GSI Audera AEP/DPOAE System. 2001-9705
- GSI Audera ASSR/DPOAE System 2001-9710
- GSI Audera AEP/ASSR/DPOAE System 2001-9715
- GSI Audera AEP only System 2001-9720
- GSI Audera ASSR only System. 2001-9725
- GSI Audera DPOAE only System. 2001-9730
- GSI Audera ASSR Upgrade with Amplifier 2001-9661
- GSI Audera ASSR Upgrade without Amplifier 2001-9662
- GSI Audera AEP Upgrade with Amplifier 2001-9663
- GSI Audera AEP Upgrade without Amplifier 2001-9664
- GSI Audera DPOAE Upgrade. 2001-9665

Quality System

- Manufactured, designed, developed and marketed under ISO 13485 certified quality system.

Compliance/Regulatory Standards

- Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards:
- UL 60601-1 American Standards for Medical Electrical Equipment
 - IEC 60601-1, EN 60601-1 International Standards for Medical Electrical Equipment
 - CSA C22.2 # 601-1-M90
 - Medical Device Directive (MDD) to comply with "EC Directive" 93/42/EEC

Setting The Clinical Standard

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