

DP: Distortion-Product Otoacoustic Emissions

Non-invasively and objectively measure inner-ear function

Safe and effective for newborns to adults

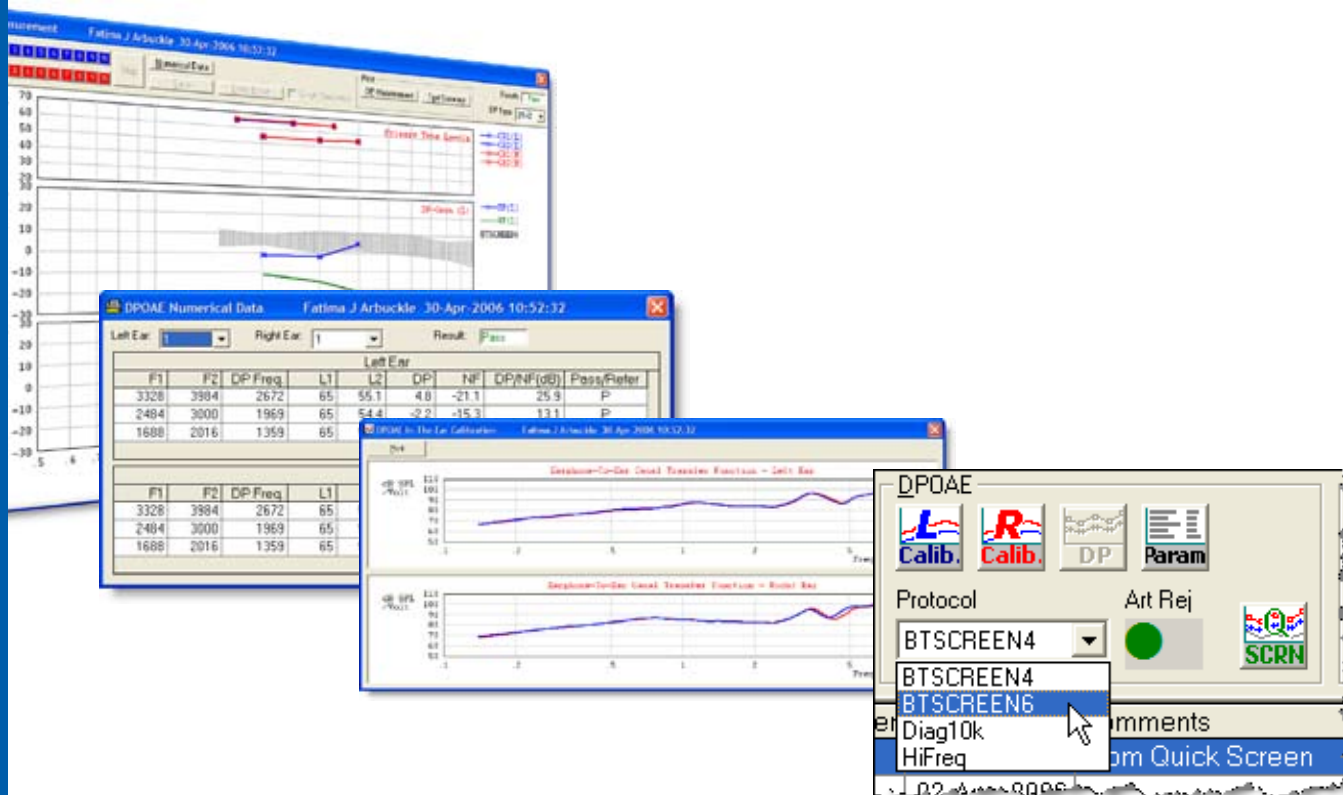
Takes just seconds

Get started quickly with the factory preset protocols or design your own.

For use in hospitals, clinics, private practice, and research institutions

Instrumentation employs

- tone pairs adjusted in the ear canal
- advanced signal processing for noise reduction and artifact rejection
- reliable retesting at single test points



Add MEPA3 reflectance for a complete middle- and inner-ear diagnostic system

HearID R3.3 Technical Specifications – DP Module

Distortion-Product Otoacoustic Emissions System

HearID + DP Specifications

To run HearID + DP, you need a HearID software and hardware system with the DP Module.

Adjustable Parameters:

- Frequency range 500-16,000 Hz.
- Number of test points per octave: 1-50.
- Intensity: f1 and f2 levels from 0 to 70 dB SPL.
- Minimum number of valid test points to pass.
- Minimum DPOAE level to pass.
- Ratio: f2/f1 from 1.1 to 1.8.
- Minimum DPOAE to noise level to pass.
- Averaging time: 0.25 to 20 seconds.
- DP Definition Points: f2-f1; 2f2-f1; 2f1-f2; 3f1-2f2; 3f2-2f1; 4f1-3f2; 4f2-3f1.

Artifact Rejection Criteria:

- Noise level for rejection; noise level above calibrated noise floor for rejection.

Stopping Rules Criteria:

- Noise level for accepting DPOAE measurement.
- Acceptable DPOAE to noise ratio.
- Maximum signal duration for a frequency point.

Special Features:

- Customizable measurement protocols.
- Retest a single test point.
- Overlay up to 10 measurements at once.
- Normative data.
- Boystown reporting format option.
- Export to Hi*Track and OZ.

Environmental Requirements

For valid measurements:

- The air temperature must be within +59°F to +95°F (+15°C to +35°C).
- Relative air humidity between 30-90%.
- Ambient noise should be minimal; however, a sound-treated booth or room is not necessary.

Regulatory

HearID DP has cleared the FDA 510 k Pre-market Notification process and is CE marked.

For Software Version: 3.3
HearID+DP Brochure Version: 1.2
Date: February 24, 2008

Subject to change without notice

HearID + DP Hardware

- 24-bit proprietary PC-Card; used for digital-signal processing.
- ER10C sound probe from Etymotic Research.
- Probe-adapter cable to connect the probe to the PC-Card.
- Disposable foam and rubber eartips for comfortable, stable, probe insertion. 8 sizes available, suitable for infants to adults.
- Cutoff 2cc syringe, for use as a test cavity.
- Weight: System weighs less than 5 ounces.
- Dimensions: all components fit into a rugged carry case measuring 9.25 x 8 x 4.5 inches.
- Probe cable length: 6 feet.
- Laptop computer not included but needs to meet the minimum requirements below.

Computer System Minimum Requirements

- IBM™ compatible laptop with an available PC-Card cardbus (Type II) slot.
- At least 512 MB of RAM.
- Pentium™ class processor at least 1.3 GHz.
- CD-ROM drive.
- Color laptop screen.
- At least a 10 GB hard drive.
- Microsoft Windows 2000, XP, or Vista Operating System.
- Recent version of Adobe Reader (for displaying the electronic manuals).

Order Information

Product Identifier: HearID+DP

Contact Mimosa Acoustics

Mimosa Acoustics, Inc.
60 Hazelwood Drive, Suite 209
Champaign, IL 61820-7460, USA
Phone +1-217-367-9740
Fax: +1-217-367-9741
Email: sales@mimosaacoustics.com
Web: www.mimosaacoustics.com



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