DPOAE
Distortion-Product Otoacoustic Emission Module

Combine with MEPA3 wideband immittance software for a complete middle- and inner-ear diagnostic system.

DP: Distortion-Product Otoacoustic Emission
• Exceeds new CPT 92588 DPOAE billing requirements
• Measurements in seconds
• Screening and diagnostic modes
• State-of-the-art artifact rejection for use in clinics and hospitals
• Single frequency retesting
• Allows you to create custom protocols
• Extended frequency range
HearID 5 + DP Module - Technical Specifications
Distortion-Product Otoacoustic Emission 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 to 16,000 Hz.
• Number of test points per octave: 1 to 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
Adjust noise level for rejection or noise level above calibrated noise floor.

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

Special Features
• Screening and diagnostic modes.
• Customizable measurement protocols.
• Capability to retest at a single test point.
• Allows overlay of up to 10 measurements at once.
• Normative data.
• Boystown reporting format option.
• Results may be exported to Excel, Hi*Track, or OZ.
• In-the-ear calibration.

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

Regulatory
HearID DP is a legally marketed device (FDA 510(k)) and is CE marked.

HearID + DP Hardware
• 24-bit proprietary USB Audio Processing Unit.
• ER10C sound probe from Etymotic Research.
• Disposable foam and rubber eartips for comfortable, stable probe insertion. Seven sizes available, suitable for infants to adults.
• Cutoff 2-cc syringe, for use as a test cavity.
• Laptop computer not included but must meet the minimum requirements below.

Computer System Minimum Requirements
• IBM™ compatible laptop with a Pentium™ class processor at least 1.80GHz.
• Windows XP™ (SP3, 32-bit), Windows Vista™ (32- or 64-bit), or Windows 7™ (32- or 64-bit) operating system.
• For XP systems: at least 512MB RAM and at least 20GB hard drive.
• For Vista systems: at least 1GB RAM and at least 50GB hard drive.
• For Windows 7 systems: at least 2GB RAM and at least 80GB hard drive.
• One available USB 2.0 port.
• Recent version of Adobe Reader (for displaying the electronic manuals).
• EN60950 (IEC950)-compliant power supply.

Order Information
Product Identifier: HearID+DP

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