

MEPA3: Middle-Ear Power Analysis

Detect middle-ear pathologies, such as
 OME (otitis media with effusion)
 Otosclerosis
 Ossicular disarticulations

Safe and effective for newborns
 to adults

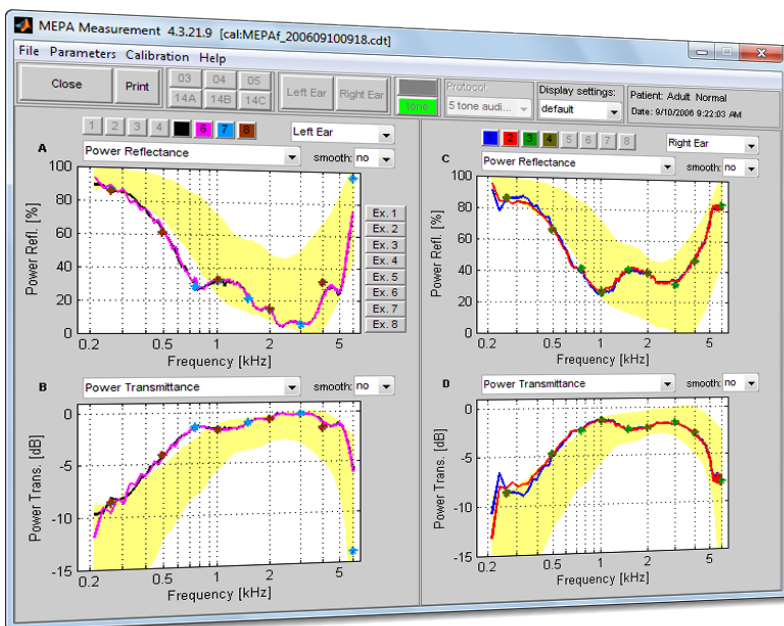
Takes just seconds

Portable, lightweight, easy-to-use

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



MEPA Reflectance Measurement



Each colored line is a MEPA
 measurement, made in seconds with
 a chirp stimulus

Asterisks are MEPA measurements
 made with a tone stimulus

Yellow patch - reflectance norms
 for adults

Add DPOAE and/or TEOAE for a complete middle- and inner-ear diagnostic system

HearID 5.0 MEPA3 Module – Technical Specifications

Wideband Reflectance System for Middle-Ear Power Analysis

HearID + MEPA3 Specifications

To run HearID + MEPA3, you need a HearID software and hardware system with the MEPA3 Module and the Mimosa Acoustics probe calibrator.

Measurements include: Power Reflectance, Power Absorption, Power Transmittance, Acoustic Impedance, Acoustic Resistance, Acoustic Reactance, Acoustic Admittance, Acoustic Conductance, Acoustic Susceptance and Equivalent Volume.

- Frequency range: 200 to 6000 Hz.
- Intensity Range: 0 to 80dB SPL.
- Sample Time: 0.1 to 10 seconds per point.
- Stimuli: Chirp & Pure Tone.
- Artifact Rejection.
- Real time display of signal and noise.
- Normative data.
- Improved Calibration.

Special Features:

- Customizable measurement protocols.
- Customizable display parameters.
- Retest a single test point.
- Overlay up to 8 measurements at once.
- Otitis media with effusion examples
- Reflectance Area Index for enhanced diagnosis
- Re-measure any single frequency point

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 MEPA3 is a legally marketed device (FDA 510(k)) and is CE marked.

HearID + MEPA3 Hardware

- Mimosa Acoustics probe calibration cavity set.
- 24-bit proprietary USB Audio Processing Unit.
- ER10C sound probe from Etymotic Research.
- Disposable foam and rubber eartips for comfortable, stable, probe insertion. 7 sizes available, suitable for infants to adults.
- Cutoff 2cc syringe, for use as a test cavity.
- Probe cable length: 6 feet.
- Multi cavity calibrator.
- Laptop computer not included but needs to meet the minimum requirements below.

Computer System Minimum Requirements

- IBM™ compatible laptop with a Pentium™ class processor at least 1.80 GHz.
- Windows XP™ (SP3, 32 bit), Windows Vista™ (32 & 64 bit), or Windows 7™ (32 & 64 bit) operating system.
- For XP systems: at least 512 MB RAM and at least 20 GB hard drive.
- For Vista systems: at least 1 GB RAM and at least 50 GB hard drive.
- For Windows 7 systems: at least 2 GB RAM and at least 80 GB hard drive.
- CD-ROM 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+MEPA3

Contact Mimosa Acoustics

Mimosa Acoustics, Inc.
335 N. Fremont St.,
Champaign, IL 61820, USA
Phone +1-217-359-9740
Fax: +1-217-359-9741
Email: sales@mimosaacoustics.com
Web: www.mimosaacoustics.com

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HearID+MEPA Brochure Version: 2.2
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Subject to change without notice



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