

TE: Transient-Evoked Otoacoustic Emissions

Non-invasively and objectively measure inner-ear function

Safe and effective for newborns to adults

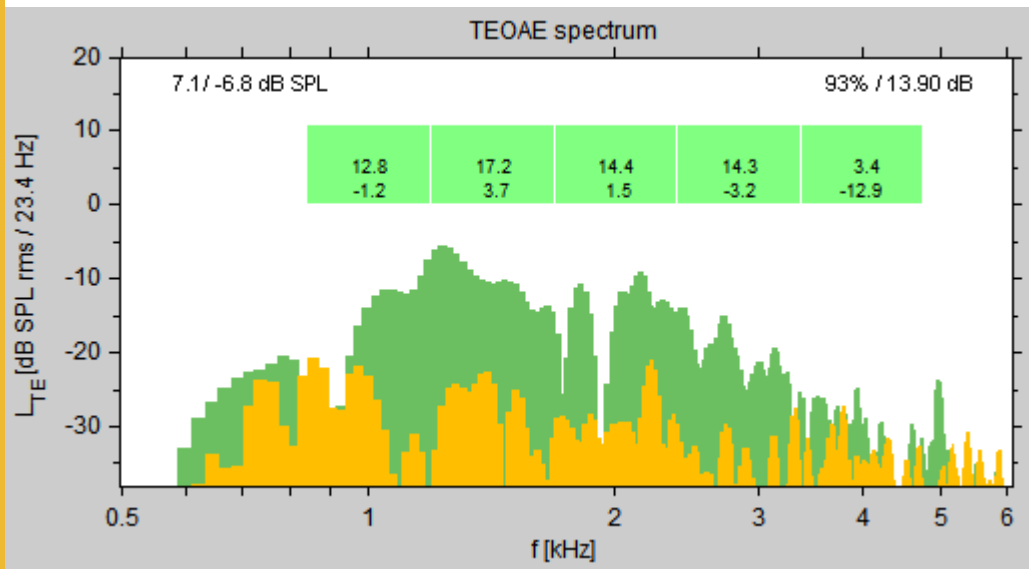
Takes just seconds

Utilize factory preset protocols or design your own

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

Instrumentation employs

- a series of stimuli (clicks or chirps)
- in-the-ear probe calibration
- greater control of test parameters in research mode



Normal-hearing adult showing a Pass result in 5 bands.

Green patch
 - TEOAE spectrum

Orange patch
 - noise floor

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

HearID 5.0 Technical Specifications – TE Module

Transient-Evoked Otoacoustic Emissions System

HearID + TE Specifications

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

- Clinical and Research modes.
- Preset measurement protocols included.
- Synchronized spontaneous otoacoustic emissions mode.
- Stimulus Types: rectangular click, biphasic rectangular click, Gaussian click, differentiated Gaussian click, flat group-delay chirp, linear group-delay chirp, Dau group-delay chirp, Shera group-delay chirp.
- Customizable stimulus bandwidth, duration, level, white or pink spectrum, polarity.
- Adjustable inter-stimulus interval.
- Linear and non-linear stimulus presentation.
- Adjustable number of passes and maximum rejected passes.
- Adjustable TEOAE response filters.
- Adjustable response window.
- Adjustable graphical noise rejection level, now with option to automate.
- Observe stimuli acoustically and electrically in real time.
- In-the-ear probe calibration, including option for spectrum compensation.
- Pass / Refer clearly indicated.
- Protocols can be customized and saved.
- Improved stopping rules and pass/refer criteria settings.

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

HearID + TE Hardware

- 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.
- 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+TE

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