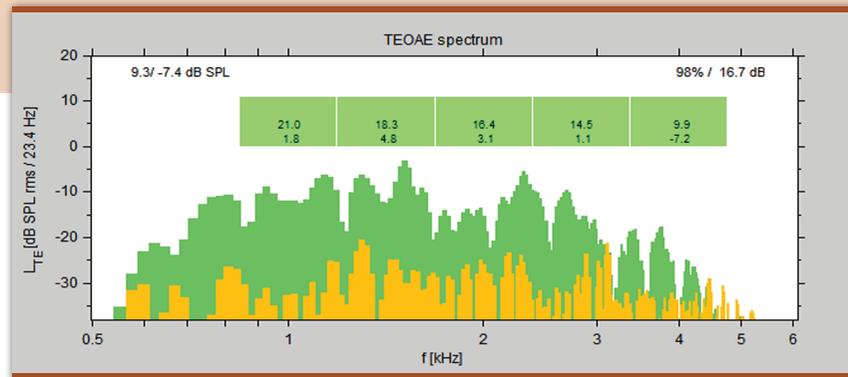# TEOAE

Transient-Evoked Otoacoustic Emission Module

Normal-hearing adult showing a Pass result in 5 bands. Green patch shows the TEOAE spectrum. Orange patch indicates the noise floor.

TE: Transient-Evoked Otoacoustic Emission

Non-invasively and objectively measure inner-ear function.

- Safe and effective for newborns to adults
- Takes just seconds
- Allows you to 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

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

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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 nonlinear 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 results 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 must be between 30% and 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)).

HearID + TE Hardware

- 24-bit proprietary USB Audio Processing Unit.
- ER10C sound probe from Etymōtic 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.
- Windows 7™ or Windows 10™.
- At least 1GB free hard drive space.
- One available USB 2.0 port or better.
- 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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