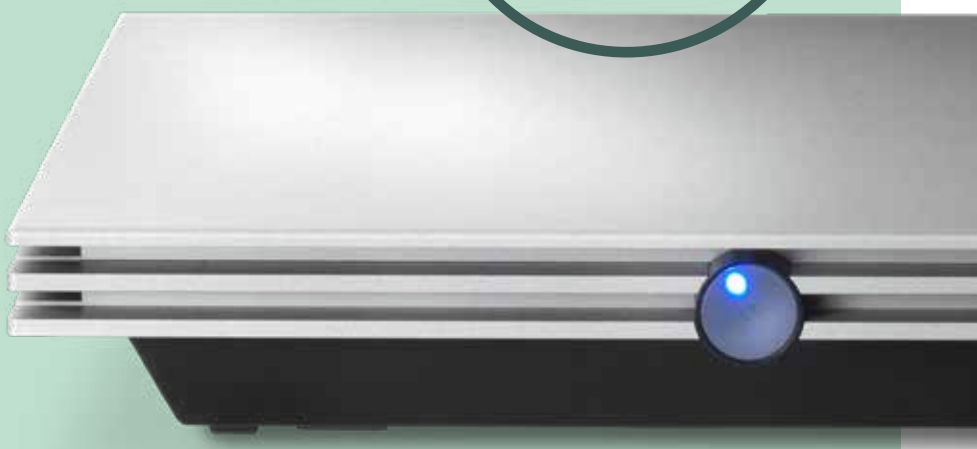
Science **made** smarter

The Eclipse

Designed to meet your every need

AEP, ASSR, VEMP & OAE testing on one dedicated platform



Versions:

EP25 ASSR
- Built for accuracy and speed

EP25 ASSR & VEMP
- Combine the power

EP with VEMP
Balance Solution
- Rate Study and ECochG

EP25 with OAE

Interacoustics

Audiometry | Tympanometry | **ABR** | **OAE** | Hearing Aid Fitting | Balance


Estimated Audiogram

Design your own diagnostic solution for a perfect result

The Eclipse is a modern and versatile platform. It is designed to fit seamlessly into your everyday workflow and to offer complete reliability and perfect results.

Have it your way
The goal: To achieve reliable test data to screen or diagnose patients accurately and efficiently.

Whatever your challenge may be, the Eclipse hardware platform does just that, enabling you to focus on the job at hand with the assistance of dedicated software modules for all facets of auditory evoked potentials and otoacoustic emissions.

Are you future-safe?
Feedback from audiology experts assist in our development process, ensuring more effective integration of our software for today and tomorrow. Upgrades are available for years to come.

Making complicated things easy
A range of pre-loaded test protocols are available in each software module ensuring that you will quickly feel confident. After getting acquainted with the software you can add or modify test protocols and tailor them to your specific needs. The clear layouts allow you to easily interpret the results and focus on the essential outcomes of the test, which can be saved into the OtoAccess® database for easy retrieval, review and export to your EMR.

A preview of the benefits
- Improved preamplifier - reduces noise levels up to 25% in ABR/ASSR recordings
- Revolutionary CE-Chirp® stimuli for faster data acquisition
- Quick and easy waveform editing and marking tools
- Multiple customizable normative data options
- Convenient pre-loaded test protocols
- Simple, direct print to PDF (EMR/EHR ready) or export to XML

Optional Eclipse Cart offers great mobility and organized storing

"
Silence is the Key.
- The Eclipse pre-amplifier provides unrivalled stealth with very low internal noise

Software modules for any challenge

"
The Eclipse has the largest number of clinically-relevant features of any AEP device today. The platform is an excellent blend of parameter flexibility and user-friendliness.

Todd B. Sauter M.A. Audiology Associates of Worcester Massachusetts

* Stock photo

ABR

EP25
ABR, eABR, MLR, LLR, P300, MMN, ECochG

ASSR
Threshold assessment

Database options

NOAH

or

OtoAccess®

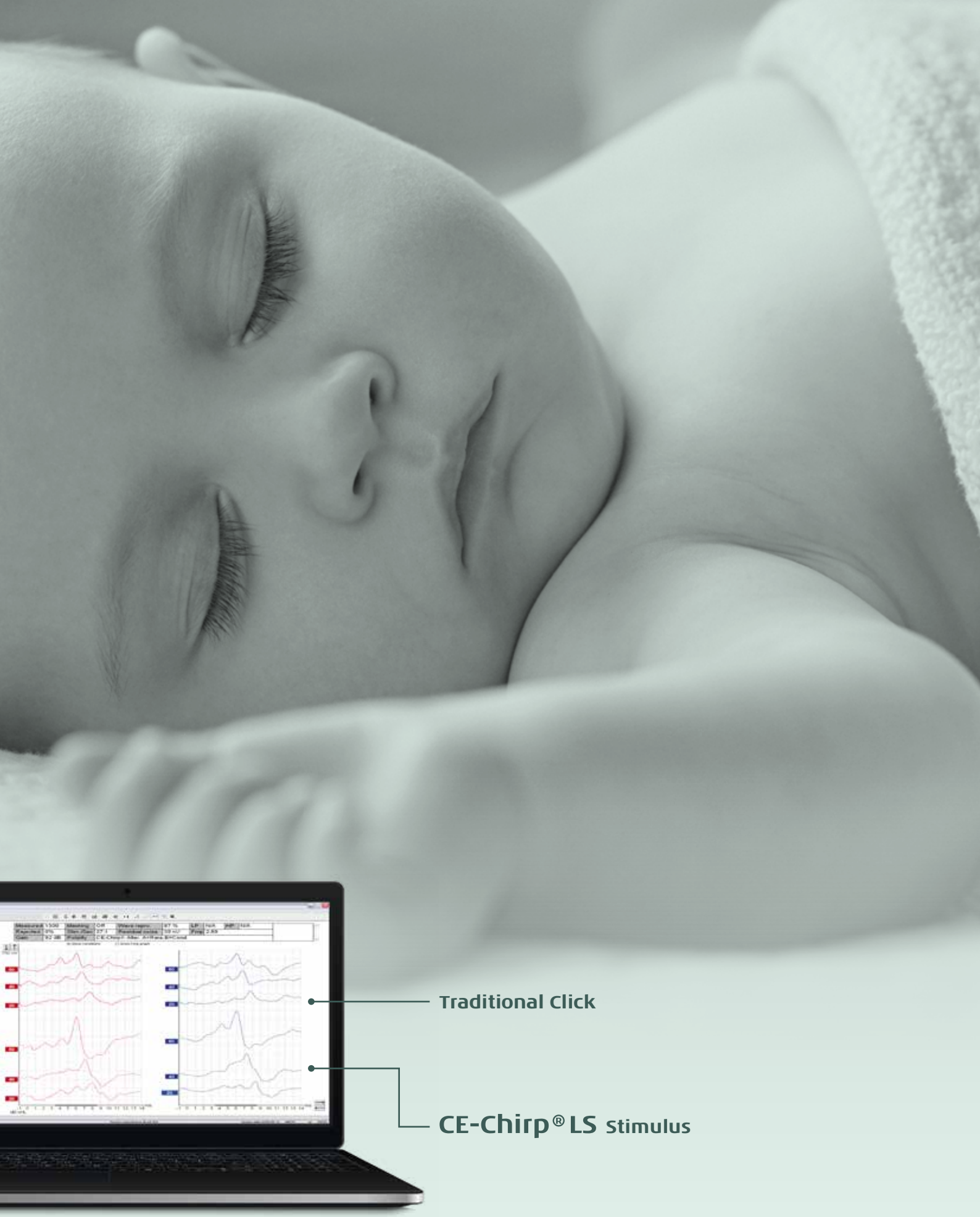
OAE

DPOAE
Screening and clinical DPOAE

TEOAE
Screening and clinical TEOAE

Balance

VEMP
cVEMP
oVEMP


Traditional Click
CE-Chirp® LS Stimulus

CE-Chirp® Stimulus Family
The Gold standard for threshold assessment

Auditory Evoked Potentials

New technologies.
New standards.
New ABR.

Silence – eliminating the noise
Reducing noise is the single most important factor for improving any evoked potential recording. The newly re-engineered Eclipse preamplifier reduces that noise by an astonishing 25%.

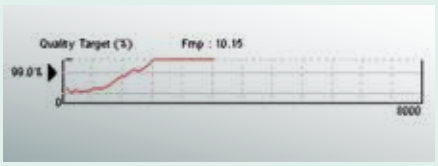
CE-Chirp® Stimulus Family – Double your response amplitudes
The revolutionary Level Specific CE-Chirp® stimulus family for threshold assessment (developed by Claus Elberling) compensates for frequency specific cochlear travel times and generates waveform responses up to twice the size of traditional click or tone burst stimuli.

For an easier visual evaluation of the NB CE-Chirp® responses, each of the NB CE-Chirp® stimuli have been time shifted to provide latencies similar to Click and the CE-Chirp® LS stimulus. The time-shifted NB CE-Chirps® are named NB CE-Chirp® LS, as the placements are level specific.

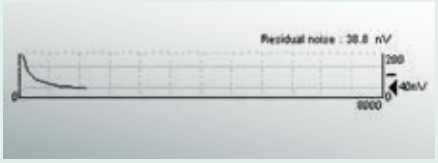
The CE-Chirp® stimulus family is incorporated in the ABR and ASSR software modules from Interacoustics.

Bayesian Weighting saves you valuable time
Using Bayesian Weighting during your ABR recording ensures that waveforms remain stable even during periods of patient activity. The influence of patient noise is minimized during the recording, resulting in continuously lower noise in the running average, saving valuable test time.

Fmp – knowing when to stop
Imagine having an objective waveform confidence indicator to assist you in confirming the presence or absence of a response. The Fmp graph provides objective and mathematical information based on multiple points within the recording to assist with your waveform analysis. Use of the Fmp provides a reduction in test time and confidence in your diagnosis.



The online display of the Fmp serves as a calculated response confidence. In this example, 99% response confidence was exceeded after only 1500 sweeps.



Rather than testing for a certain number of sweeps, the residual noise should be used as a stop criteria.

EP25
From diagnostic ABR to specialized AEP

EP25 Comprehensive Clinical AEP

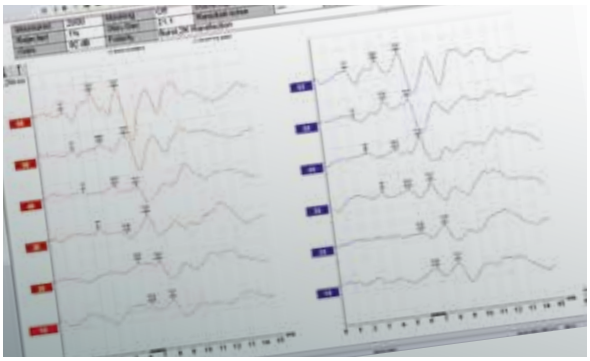
For specialized procedures requiring the full spectrum of AEPs: Go for the Advanced EP25 software.

A new standard
The contemporary interface delivers unrivalled ease-of-use and superior clarity, which will help you achieve clear and reproducible results in a confident and timely manner. Pre-loaded protocols peer-reviewed by key-experts, easy tailoring of manual and automatic test protocols and a multitude of useful tools make the Eclipse the preferred choice for threshold and neurological ABR.

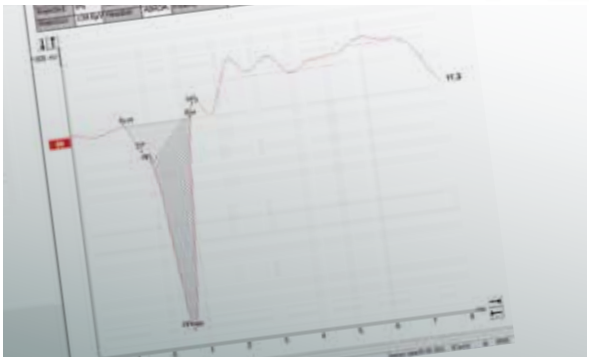
The benefits of specialized features
The EP25 incorporates functionality for early, middle, and late responses, including P300 and MMN tests.

For your daily routine
- Threshold & neurological ABR testing & eABR
- Bayesian weighting
- Residual noise calculator
- Fmp calculator
- SNR 3:1 ratio calculator
- Normative latency data for click, CE-Chirp®, NB CE-Chirp®, CE-Chirp® LS & NB CE-Chirp® LS
- Single/split screen
- CE-Chirp®, NB CE-Chirp®, CE-Chirp® LS & NB CE-Chirp® LS for optimized threshold assessment
- CM & ECochG testing
- AMLR, ALLR & P300/MMN testing
- ECochG Area Ratio Calculation by John Ferraro

Vestibular EP – We offer a special version for the vestibular clinic with protocols such as VEMP, ECochG and rate study tests



Displaying Right and Left ear in a split screen format is beneficial when performing threshold work.



Unique ECochG Area Ratio Calculation implementation.

VEMP

cVEMP
The Cervical Vestibular Evoked Myogenic Response (cVEMP) is an evoked potential measured from the sternocleidomastoid (SCM) muscle and is used to test the saccule and its afferent pathways through the inferior vestibular nerve.
It is useful in the differential diagnosis of vestibular system pathology.

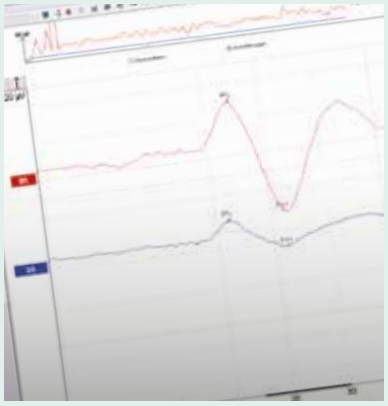
oVEMP
The Ocular Vestibular Evoked Myogenic Potential (oVEMP) is an evoked potential measured from the inferior oblique muscle and is used to test the integrity of the utricle and its afferent pathways through the superior vestibular nerve. The oVEMP response provides information to assist in the diagnosis of disorders such as Superior vestibular Neuritis and Superior Semicircular Canal Dehiscence (SSCD).

Patient Monitor
A correct contraction of the SCM muscle is essential for a reliable cVEMP recording.
The patient monitor provides information about the test time and contraction of the SCM muscle.

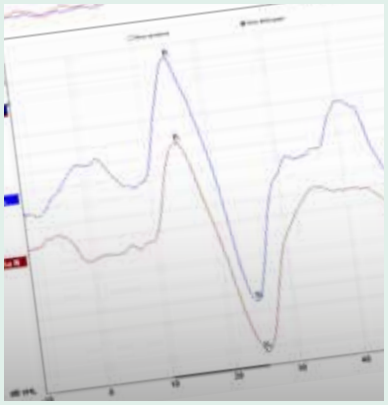
EMG Scaling – a reliable result
EMG scaling (amplitude normalization) corrects for differences in EMG activity throughout the test allowing for a more reliable final result.

VEMP ratio - easy calculation
Following VEMP waveform collection, the right and left waveforms can easily be set as VEMP partners for an automated amplitude asymmetry ratio calculation.

Automated VEMP ratio calculation – The amplitude difference between right and left side is calculated automatically using the VEMP ratio. Simply mark two places on the VEMP curve and the software will calculate the VEMP ratio.



VEMP recording with unequal muscle contraction



VEMP recording with responses scaled according to muscle tonus during recording

Complete system – Combine VEMP with the Interacoustics VNG system for a complete balance system.

ASSR Where speed meets accuracy

The Interacoustics ASSR system reduces test times by 50% thanks to Narrow Band CE-Chirp® stimuli and new powerful automated dual response detection methods.

A new (and faster) generation
Interacoustics ASSR represents a true breakthrough and a new generation in ASSR threshold estimation. The ASSR software enables 8 frequencies to be tested simultaneously to threshold in less than 20-30 minutes through the use of Narrow Band CE-Chirp® stimuli and a patented detection engine.

Full control – full speed
You will dramatically shorten test time as you are in full control of selecting the appropriate stimulus levels independently for each frequency based on current and previous results. Also, you are able to change the stimulation rate during testing depending on the state of your patient. All in all: Full control allows full agility and speed.

Cut test times in half
The Interacoustics ASSR software uses the Narrow Band CE-Chirp® stimuli to generate a maximal response, which makes the detection fast and efficient. The dual detection engine evaluates both the phase and the response magnitude from twelve of the higher harmonics of the fundamental modulation rate. This patented technology can reduce test time by 50% compared to traditional ASSR systems and offers unsurpassed accuracy.

Save data directly to NOAH
The estimated audiogram generated by the Interacoustics ASSR can be saved to NOAH. The estimated audiogram can easily be transferred to Genie or other similar hearing aid fitting software, ensuring a smooth and accurate hearing aid fitting.


Probe check
Response
Test summary
Point summary
DP-Gram
Stimulus
Probe check
Response waveform
TE response
PAUSE
START
PAUSE
STOP

DPOAE20 TEOAE25 Otoacoustic emissions

The Eclipse hardware platform accommodates both DPOAE and TEOAE capabilities.

Shared features and benefits

- Lightweight probe with low internal noise
- Probe check indicator for correct placement
- Historic overlay for test comparison
- Test summary providing a quick overview of test results
- Protocol settings for automatic display of pass/refer results for hearing screening
- Weighted averaging improving data quality and limiting the test time

DPOAE

Distortion product emissions

The DPOAE module produces detailed DP Grams with protocols designed by the user for their preferences or requirements. Confidence in the OAE measurements is ensured via DPOAE reliability criteria. Available frequency range is 500-10000 Hz.

TEOAE

Transient evoked emissions

The TEOAE uses linear or non-linear broad band clicks to evoke otoacoustic emissions. The extensive range of clinical options provide a full clinical evaluation of TEOAEs. Available frequency range is 500-5500 Hz.

Science **made** smarter

Interacoustics is more than state-of-the-art solutions

Our mission is clear. We want to lead the way in audiology and balance by translating complexity into clarity:
- Challenges made into clear solutions
- Knowledge made practical
- Invisible medical conditions made tangible and treatable

Our advanced technology and sophisticated solutions ease the lives of healthcare professionals.

We will continue to set the standard for an entire industry. Not for the sake of science. But for the sake of enabling professionals to provide excellent treatment for their millions of patients across the globe.

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Go online to explore our full product range

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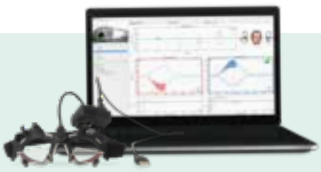

EyeSeeCam
Video Head Impulse Test (vHIT)

Titan
Tympanometry, OAE, ABRIS and WBT

OtoRead
Handheld DPOAE & TEOAE

Product specifications
All technical and hardware specifications concerning all products can be downloaded from our website.

Interacoustics

Audiometry | Tympanometry | **ABR** | **OAE** | Hearing Aid Fitting | Balance