



# The Eclipse Designed to meet your every need

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



**Interacoustics**

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# Design your own diagnostic solution for a perfect result

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**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.**

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## **Have it your way**

We all strive towards a common goal: To achieve reliable test results to screen or diagnose patients accurately and efficiently.

Whatever your challenge may be, the Eclipse hardware platform enables 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.

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## **Are you future-safe?**

Every Eclipse software module is developed based on proven technologies and feedback from users and audiology experts. Features are developed in sync with your changing needs and contain the latest technologies making the Eclipse a future-safe investment.



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## **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 in XML format.

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## **A preview of the benefits**

- Solid & noise immune hardware
- Modular and future-safe platform
- Unique pre-amplifier technology ensures optimum performance in electrically hostile environments
- Intuitive interfaces, well-designed layouts, freedom to customize settings
- Windows 8, 7, Vista and XP compatible



**Silence is the Key**

The Eclipse pre-amplifier provides unrivalled stealth with only 4nV of internal noise





# Software modules for any challenge

## Database

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**NOAH**

Data Storage  
& Sharing

**OtoAccess™**

Data Storage  
& Sharing

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

"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."



# ABR

EP25

ABR, MLR, LLR, P300,  
MMN, ECoChG, eABR

EP15

ABR

ABRIS

Automated ABR  
screening

ASSR

Threshold assessment

# OAE

DPOAE20

Screening and  
clinical DPOAE

TEOAE25

Screening and  
clinical TEOAE

# Balance

VEMP

cVemp  
oVemp





# Auditory Evoked Potentials

**CE-Chirp®**  
The Gold standard  
for threshold  
assessment



Traditional Click

CE-Chirp®  
Stimulus





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**New technologies.  
New standards.  
New ABR.**

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### **Residual Noise Calculation – knowing when to stop**

Reducing noise is the single most important factor for improving any evoked potential recording. The residual noise calculator provides you with the knowledge of when to stop averaging, often saving test time and ensuring confidence in response identification.

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### **CE-Chirp® – Double your response amplitudes**

The revolutionary CE-Chirp® stimulus 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. The CE-Chirp® is incorporated in the EP25 (\*optional for EP15) and ASSR software modules from Interacoustics.

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### **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.

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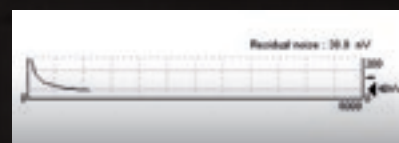
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### **Fmp – improving confidence**


Imagine having an objective waveform quality indicator to assist you in confirming the presence or absence of a response. The Fmp graph provides objective, mathematical and quantitative 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.



# EP15, EP25 and ABRIS

## From screening ABR to specialized AEP

### **ABRIS**

Fast and objective  
ABR screening

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**ABRIS is a fast screening software that can be used for all age groups. It returns a simple pass/refer result, requires minimal tester training and is automatic and objective.**

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#### **Just click "START"**

After attaching the electrodes and making a quick impedance check - simply click "Start" and you are set to go. EEG monitoring is provided with a continuous graphical display and no measurements are collected during periods of unacceptable noise. Results are clearly displayed in: Green for Pass and Red for Refer - it's that easy!

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#### **99.7% - don't settle for less**

ABRIS specificity (the ability to correctly exclude normal hearing babies) is as high as 99.7% in large scale clinical trials using two stage screening. ABRIS sensitivity (the ability to correctly identify babies with hearing problems) is 99.99% based on large-scale simulations.

#### **Vestibular EP**

We offer a special version for the vestibular clinic with protocols such as VEMP, ECoChG and rate study tests.





## EP15 Diagnostic ABR

Developed for clinics performing standard threshold and neurological ABR testing, the EP15 will allow you to do a common task surprisingly well.

### 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.

### For your daily routine

- Threshold & neurological ABR testing & eABR
- Bayesian weighting
- Residual noise calculator
- Fmp calculator
- SNR 3:1 ratio calculator
- CR, RA, INC waveform markers
- Normative latency data for click, CE-Chirp® & NB CE-Chirp®
- Single/split screen
- CE-Chirp® & NB CE-Chirps® for optimized threshold assessment (optional)
- CM & ECoChG testing (optional)

## EP25 Clinical AEP

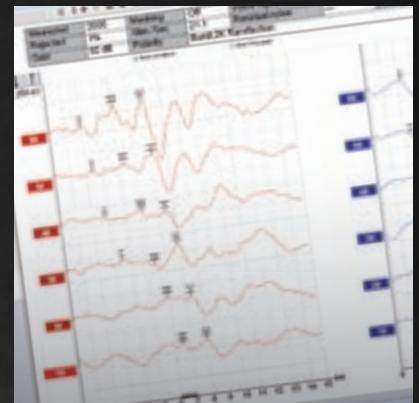
For those who need specialized procedures requiring the full spectrum of AEPs: Go for the advanced EP25 software.

### The benefits of specialized features

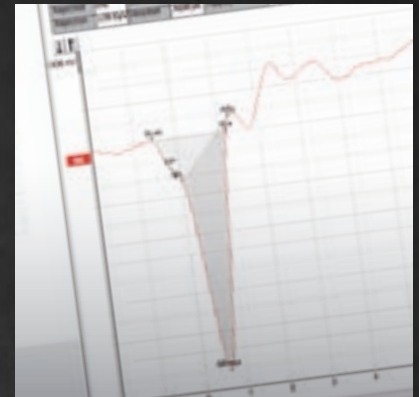
The EP25 contains all the useful features found in the EP15, but adds the extra functionality needed by more specialized clinics. The EP25 incorporates a full range of test protocols covering the early, middle and late latency tests.

### EP25 – all the features of EP15 and this:

- AMLR, ALLR & P300/MMN testing
- CM & ECoChG testing
- ECoChG Area Ratio Calculation by John Ferraro
- CE-Chirp® & NB CE-Chirps® for optimized threshold assessment



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



Unique ECoChG Area Ratio Calculation implementation.

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# ASSR Where speed meets accuracy

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

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### 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.

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### 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.

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### 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 12 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.

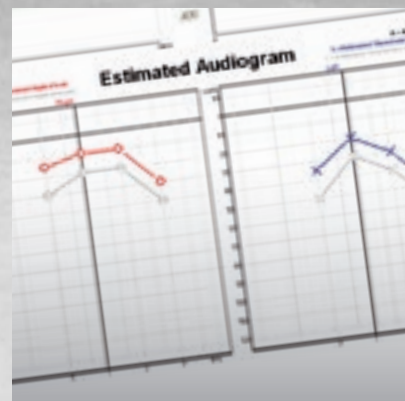
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### Transfer results straight to DSL

The estimated audiogram generated by the ASSR can be easily transferred directly to the DSLv5 hearing aid fitting algorithm used in both the Affinity and Callisto Hearing Aid Analyzers from Interacoustics. The transfer function was made in cooperation with Richard Seewald's DSL Group of the University of Western Ontario, ensuring a smooth and accurate transfer.



ASSR detection.



ASSR audiogram.





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# DPOAE20 TEOAE25 Otoacoustic emissions

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**The Eclipse hardware platform accommodates both DPOAE & TEOAE capabilities.**

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## **Shared features and benefits**

- Lightweight probe with low internal noise
- Easy to place in the ear
- Inexpensive to maintain
- Auto probe check determines correct placement
- Validity checkmarks for OAE detection confirmation
- User-controlled noise sensitivity and rejection for easier collection

## **DPOAE20**

### **Distortion product emissions**

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The DPOAE20 module produces detailed DP Grams with protocols designed by the user for their preferences or requirements. Build your own customized normative data sets or use the supplied norms from Interacoustics.

## **TEOAE25**

### **Transient evoked emissions**

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The TEOAE25 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. The TEOAE25 also has protocol settings for automatic display of a pass/refer result for hearing screening. Factory defaults are also available.





# Optimize VEMP through visual feedback

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## **Vestibular Investigation**

The Eclipse VEMP test measures and analyses the vestibular evoked myogenic potential generated by a loud stimulus.

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## **Instant visual feedback - increased quality**

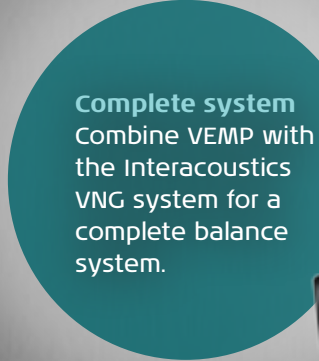
Valid VEMP results are dependent on correct and controlled EMG tonus. The VEMP software provides visual feedback of the muscle contraction to assist you in helping the patient to obtain correct muscle tonus throughout the entire test. This can be done from the software or on a separate patient monitor for cVEMP testing.

## **EMG-based scaling - a reliable result**

By applying EMG-based scaling of the obtained waveforms, you are ensured a crucially important balanced presentation of responses from Left and Right - ensuring a confident and reliable result.

## **High output stimuli**

The Eclipse VEMP can stimulate up to 100dB nHL with clicks, 500Hz and 1kHz tone bursts.

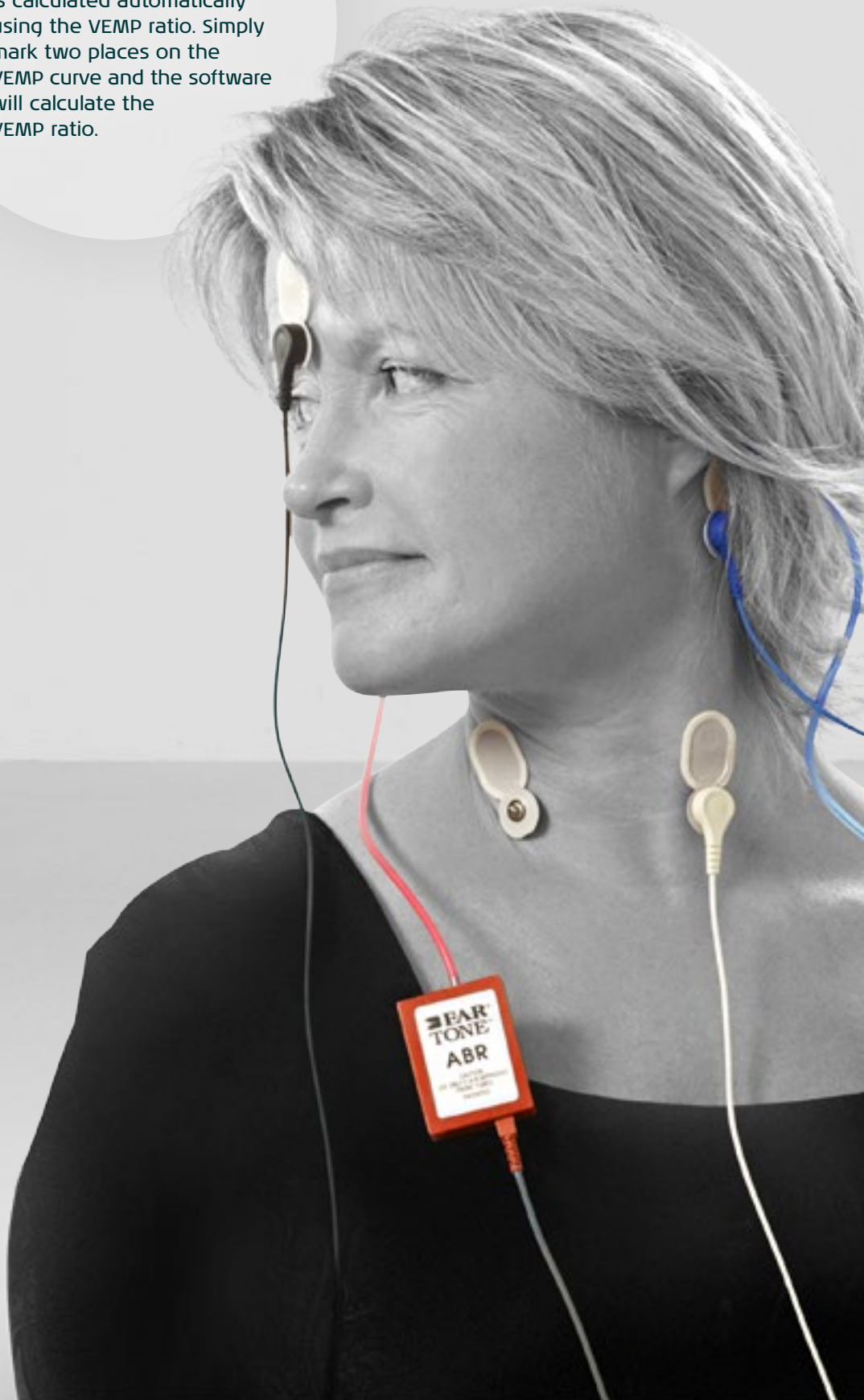


**Complete system**  
Combine VEMP with the Interacoustics VNG system for a complete balance system.



### Automated VEMP ratio calculation

The difference between ears is calculated automatically using the VEMP ratio. Simply mark two places on the VEMP curve and the software will calculate the VEMP ratio.





## Interacoustics a/s

Interacoustics is a world leading diagnostic solutions provider in the field of hearing and balance assessment. We help the professional audiological world reach new milestones through continuous developments and a constant focus on integration and direct customer value.

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## With you at all times

Whenever you purchase audiological equipment with the Interacoustics brand on it, you are not just guaranteed a quality product but also highly trained support personnel with specialized knowledge. We operate in over 100 countries worldwide through a carefully selected network of distributors and service centres to ensure that you receive total support and service.

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## Product specifications

All technical and hardware specifications concerning software modules and the Eclipse platform can be downloaded from our website.

Read more at  
[interacoustics.com](http://interacoustics.com)

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## Interacoustics a/s

Drejervaenget 8  
DK-5610 Assens

T +45 6371 3555  
F +45 6371 3522

info@interacoustics.com  
interacoustics.com



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explore our  
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