
Affinity^{2.0} integrated fitting solution

Audiometry, REM, HIT, and
Visible Speech Mapping




Interacoustics

The complete solution

Affinity^{2.0} is a user friendly, all-in one system for audiometry, real-ear measurement and technical hearing instrument testing. It also offers various counseling tools and a variety of special tests for advanced audiometry.

Mix and match modules

- Audiometry (basic audiometry & a wide range of specialized tests)
- Real-ear measurements with optional Visible Speech Mapping
- Hearing Instrument testing

The Affinity^{2.0} combines easy to use hardware and software interfaces controlled from your laptop or desktop PC. Mixing and matching the modules as you need them provides additional flexibility - customized to your needs.

Built for the future

As new hearing aid technologies evolve - so will the Affinity^{2.0}. The modules will be upgraded as new features or other advanced techniques become available. All associated client records are stored through Noah or through the Interacoustics database called OtoAccess[™]. Both systems are networkable. The software concept allows you to include other Interacoustics modules within the same suite, e.g. VIOT video otoscopy.



A complete package

All the necessary accessories are included with each module. Every accessory has its own dedicated connection on the hardware, so there is no need to unplug devices between activities.

Personal settings and protocols

The Affinity^{2.0} permits personalized test configurations to match your clinical needs. The user defined protocols are saved under a unique name for easy recall via a drop down menu. This enables multiple users to make test selections that are suitable for their own applications. Larger clinics or dispensing facilities will find this useful as the protocols can be downloaded and transferred to sites over the internet.



**Integrated fitting solution.
Audiometry, REM,
HIT, and Visible
Speech Mapping.**



Sales and counseling

A Visible Speech Mapping module is available with the Affinity^{2.0} to assist you in educating clients and family members about the complexities of hearing aid amplification and the benefits they will receive. Likewise, the Hearing Loss Simulation (HLS440) and Master Hearing Aid (MHA440) modules engage clients and relatives in the fitting process which is especially important in establishing the trust and confidence of first-time users.



Set your own combination on one user-friendly platform

Customize your Affinity^{2.0} through dedicated software modules to create your personal combination for Audiometry, REM, HIT, and Visible Speech Mapping.





AC440 Audiometry software

The audiometry module (AC440) offers advanced diagnostic testing in a simple and user-friendly layout. On top of standard air, bone and speech audiometry, the AC440 module offers a wide variety of tests.



Dedicated audiometer keyboard



Full-test battery

AC440 has a basic set of tests for speech and tone audiometry, but can be supplemented by a variety of licensed special tests from basic assessment level up to neurological investigations. This enables you to tailor the test battery to your needs by buying only the licences that you require.

Historical sessions

Any historical audiogram can be retrieved for display while you are performing a test, or after you have completed the examination. The historical data retrieval will display overlapping audiograms for diagnostic and educational purposes and even transfers immediately into the REM440 fitting software

Data extraction and output

The Affinity^{2.0} is designed to streamline the process of data extraction, for condensing patient records and sharing information across clinics. Data may be extracted in PDF and XML formats for printouts and email attachments.

High Frequency (HF440) and Multi Frequency (MF440)

With the High Frequency option you can test up to 20kHz, which is useful when monitoring for ototoxicity or early stages of hearing loss. When used with the Multiple Frequency option, it becomes an even more powerful tool for precise analysis of tinnitus.

QuickSIN™

The QuickSIN™ is a popular test for evaluating a person's ability to perceive speech in a variety of signal-to-noise ratio environments. The AC440 software provides a convenient scoring and recommendation chart to support the process and counseling.

Masking Level Difference (MLD440)

The MLD test is often recommended as part of the CAPD test battery. It consists of binaural presentation of tones and noise with different signal phases, which can produce masked threshold shifts. Results can help identify persons with binaural integration difficulties.

Speech tests from the hard drive (SFH440)

This feature eliminates the need for an external CD player for the majority of your speech tests. Choices for scoring methods allow you to customize the word presentations and view the chosen word lists.

Dedicated keyboard

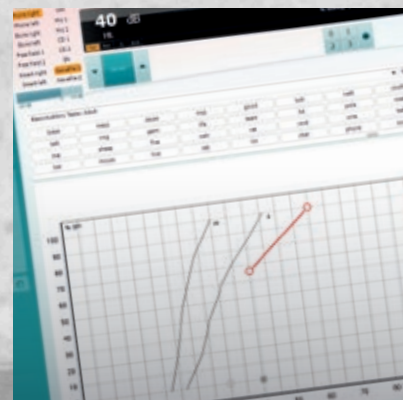
The AC440 has an optional dedicated audiometric keyboard to aid in the transition from stand alone audiometers to PC based. Function keys may be customized to speed up your test time.

Customizable Counseling Overlays

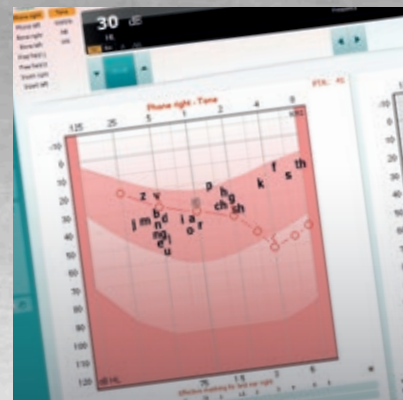
The counseling overlays will assist in explaining your clients their hearing loss and will make it easier for them to understand their need for rehabilitation. Overlays can be maximized on an external monitor.



QuickSIN™ test



Speech audiometry



Counseling overlay - phoneme examples

- On-top mode
- Open fit capability
- RECD and coupler verification
- DSLV5 and NAL-NL2 prescription targets
- Compatible with AutoFit, REMfit and EXPRESSfit

REM440 Real Ear Measurement

The Real-Ear Measurement module (REM440) is an essential verification tool that ensures precise hearing aid fittings.

Objective quantification

Real-Ear measurements are the only means to objectively quantify what you put in your clients ear - potentially having a huge impact on client satisfaction. The REM440 Real-ear Measurement module is a reliable fitting tool suitable for all types of hearing aids. It ensures precise hearing aid fittings and easy side-by-side management with the hearing aid manufacturer software.

Binaural REM

Binaural REM makes it faster to fit both ears simultaneously. It saves time while maintaining an insertion gain measurement. Used together with On-top mode it is a very efficient procedure.

On-Top mode

REM440 features On-Top mode allowing for smooth and fast hearing aid fittings and finetuning. The On-Top mode converts the REM440 software into an overlay window which is automatically placed on top of the hearing aid fitting software. While making adjustments to the hearing aid - observe immediate changes to your real-ear measures.

Testing of advanced hearing aid features

The REM440 software lets you analyze advanced hearing aid features, such as noise reduction and directionality, which are now standard features in modern hearing aids.

Real world simulation

Bring the real world to your clients with real world sounds and speech stimuli that are relevant to their everyday listening environment. Simply choose from a variety of digitized male, female or combined recordings and even import your own files or play sounds using the "external sound" option. A special 'in-the-ear' monitor system provides valuable trouble shooting information about how the hearing aid sounds in the client's ear.

RECD and Pediatric hearing aid fitting

Thanks to the benefits of universal neonatal hearing screening (UNHS) an increasing number of babies with hearing loss are identified within 6 months of age. As a result more infants and small children are referred for hearing aid fitting in which Real-Ear to Coupler Difference (RECD) is an essential measure. Specially designed components enable rapid testing of the RECD. In cases where measurement of the RECD is not practical, REM440 provides age related predicted data to approximate these values.



VSP440 Visible Speech Mapping

Visible Speech Mapping combines counseling with real-ear measurements and helps to visually explain the features, benefits and performance of hearing aids.

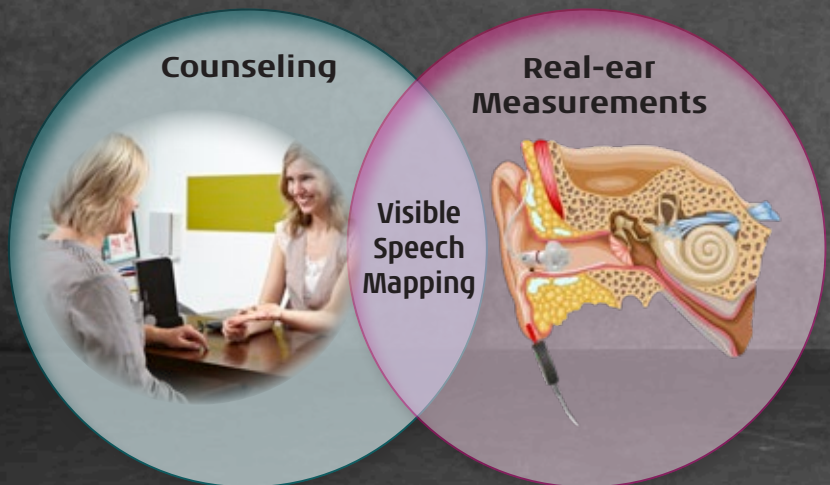
Counseling and verification combined

Counseling is an essential part of the client centered hearing aid fitting process. This is where Visible Speech Mapping plays a vital role, as it engages the client with dynamic, graphic examples next to the real-ear measurement information. This is why Visible Speech Mapping is becoming more and more popular with hearing healthcare professionals and their clients.

The concept of Visible Speech Mapping

Visible Speech Mapping merges real-ear measures and counseling into the one easy-to-understand visual display. You can match the amplification to target (e.g. NAL-NL2, DSLv5) on an aided display and at the same time show improvements by comparing to an unaided display - in real-time!

The comprehensive layout shows dynamic range, normal hearing and clients hearing loss in SPL, environmental sound examples, predicted speech intelligibility differences and audibility improvements. The display enables the dispenser to explain compression characteristics, binaural benefits and other advanced features in a visual and easy-to-understand format.



HIT440 Hearing Instrument Testing

The Hearing Instrument Testing module allows for technical verification of all types of hearing instruments.

With you through any challenge

The HIT440 offers the option to conduct technical evaluations of hearing instrument performance. This now also includes the possibility to evaluate bone anchored hearing instruments, using the SKS10 Skull Simulator coupler. Choose from pre-defined ANSI or IEC tests, or create your own.

The Affinity^{2.0} also includes a wide range of stimuli including ICRA's which are designed for testing nonlinear hearing aids.

Endless loop testing

For aids with suspected intermittent faults you can set up a sequence of tests, specifying tolerances for each, and run the sequence in an endless loop until a tolerance is overstepped. This could be done overnight with results available next morning.

Testing directional microphones

HIT440 uses the special dual speaker set in the built-in test box for checking directional microphone function.

Built-in test sequences

HIT440 contains a number of built-in test sequences based on IEC and ANSI standards. This means the system is ready to go when you receive it. Each test has an embedded report that can be printed.

Compatibility with TBS25

It is also possible to attach the TBS25, an external test chamber, to the Affinity^{2.0}.

Historical sessions

All test sessions can be saved and recalled at a later date for direct comparison with current performance. Results from both dates are displayed on the same chart, simplifying comparison. This objective measure of performance change is an invaluable reference tool.

Additional features:

- Tests all types of hearing aids
- NOAH compatible
- Variable smoothing of curves
- Telecoil testing
- Manual override
- Import/Export of protocols
- Wide range of test stimuli

Create your own tests or choose from the existing standard protocols



Perform technical measurements of bone anchored hearing solutions with the Skull Simulator from Interacoustics.

Popular combinations

Print Wizard

Design your own print templates adding elements from audiometry, REM or even other Interacoustics Suites (e.g. impedance and video otoscopy).

Easy integration

Through the intuitive and easy to use software suites the Affinity^{2.0} can easily be combined and integrated with other Interacoustics instruments.

The Interacoustics Suites integrate various measurement modules in a common yet intuitive and user friendly way to enable viewing, storing and printing of shared data.

EMR
(Electronic
medical records)

**Combined
Reporting**
Print Wizard

**OtoAccess™
Interacoustics
database,
NOAH or XML**



Titan Suite
Tympanometry, OAE & Automated ABR



VIOT™ Video Otoscope Suite



Diagnostic Suite
Supports all Interacoustics stand
alone audiometers and tympanometers



Affinity^{2.0} / Equinox^{2.0} / Callisto™ Suite
Audiometry, REM, HIT, and Visible Speech
Mapping



Interacoustics

Interacoustics is a world leading provider of diagnostic solutions in the field of hearing and balance assessment. Since 1967 we have designed and manufactured our innovative diagnostic solutions for the world of audiology with a constant focus on providing our customers with quality, dependable products.

With you at all times

We operate in over 100 countries worldwide through a carefully selected network of distributors and service centres. Purchasing an Interacoustics product guarantees not only a quality product, but also direct access to our highly professional training and support service.

Product specifications

All technical and hardware specifications concerning software modules and the Affinity^{2.0} platform can be downloaded from our website.

Read more at
interacoustics.com

Go online to
explore our
full product
range



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