Affinity REM440 Module

- Efficient Real Ear Measurements

Real ear measurement

The Affinity REM440 Real Ear Measurement module offers valuable options for fitting and fine-tuning a new pair of hearing aids or trouble-shooting a specific listening situation.

With the REM440 module, you can professionally test the fitting accuracy of the hearing aid in the test box as well as the real-life accuracy while the hearing aid is in use on the client. Standard protocols such as tone, noise and speech stimuli are pre-loaded, but you can also customize your test protocols – choose which tests to run, in what order and incorporate test signals or speech files.

The REM440 also interacts with hearing instrument manufacturers' fitting software, and you can view the REM440 curves simultaneously with the fitting software. When working with digital hearing aids, the REM440 can use live speech and environmental sounds such as ICRA for the best fitting.

Target curve calculations based on the client's audiogram ensures a perfect fit using fitting

prescriptions such as NAL-NL1, NAL-R, POGO as well as DSL m[i/o]. The possibility of simply loading new updates to your PC allows for future upgradability. Measurements can be performed binaurally with the dedicated Interacoustics in-situ headset which includes an easy to use probe microphone and a reference microphone with automatic calibration capability.

Other benefits of the REM440 module:

- Individualized printouts
- Optional Visible Speech Module VSP440
- Report page for session notes

Visible speech

The optional VSP440 Visible Speech module is a complementary demonstration tool that does not require additional hardware. The Visible Speech module shows your clients what the hearing aid offers in terms of audibility compared to the non-amplified ear. Use it to show a binaural view on your screen or to illustrate the effect of two different hearing aids. Give your customers the ability to see the difference between a normal ear and their own ears and help them make an informed choice.



leading diagnostic solutions



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General Technical Specifications

Standards:

Safety: EN 60601-1, Class I, Type B, UL 2601-1, CAN/CSA-C22.2 No. 601.1-M90, EN 60601-1-1. **EMC:** EN 60601-1-2.

Medical CE-mark:

The CE-mark indicates that Interacoustics A/S meets the requirements of the Annex II of the Medical Device Directive 93/42/ EEC. Approval of the quality system is made by TÜV – identification no. 0123.

Computer Communication:

Built-in USB1.1 computer interface. Optical isolation available.

PC Minimum Requirements:

Processor/clock speed: 800 MHz Pentium 3 or better. System RAM: Minimum 128 MB Screen Resolution: Minimum 800 x 600 Harddisk space: Minimum 500 MB free disk space. Operating System: Windows 98 SE/2000/ XP/ME.

Construction: Painted metal cabinet bottom and moulded plastic top.

Weight: 5.5 kg / 12.1 lbs.

Dimensions: LxWxH: 42x38x15 cm/16.5x15x5.5 inches.



Technical Specifications - Affinity REM440 Module

Real Ear Measurement:: EN 61669, ISO 12124, ANSI S3.46.

Frequency Range: 100-10000Hz.

Frequency distortion: 2%

Frequency Accuracy: ± 1%.

Intensity range: 40 - 90 dB

Intensity accuracy: ± 1.5 % dB

Frequency Resolution:

1/3, 1/6, 1/12 and 1/24 octave or 1024 point FFT.

Sweep Speed: 1.5 - 12 sec.

Stimulus Signal: Warble Tone, Pure Tone, Random noise, Pseudo random noise, Band limited white noise, Chirp, ICRA, Real Speech, any other sound file (automatic calibration available).

Measurement Intensity Range: Probe microphone 40-145 dB SPL ± 2 dB.

Reference microphone:

Intensity: 40 - 100 dB

PreProgrammed Protocols:

REM440 module comes with a set of Test Protocols loaded. Additional Test Protocols can be designed by user, or easily imported into the system.

Available tests:

REUR REIG RECD REAR REAG REOR REOG REUG

Input - Output

Noah: 3.0.



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Included Parts:

Affinity REM440 CD
IHM60 In-situ headset with probe microphone and reference microphone (double)
IGT50 Insertion gain tubes 36 pcs.
Standard USB cable
Power cable 120 or 230V
Operation and multilingual CE manual

Optional Parts:

SPL60 Transducer Kit for RECD measurement incl. probes and eartips
BET60 Box with Eartips for for RECD
measurement.

Calibration adaptor for insitu reference VSP440 Visible Speech Module



Interacoustics A/S

Phone: +45 6371 3555
Fax: +45 6371 3522
E-mail: info@interacoustics.com
Web: www.interacoustics.com
Mail: Interacoustics A/S
DK-5610 Assens, Denmark

Sales and Service in your area:

