

Overview modules

Decos Audiology

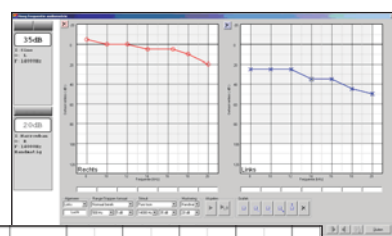


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Decos Audiology offers the standard modules Tone Audiometry, Speech Audiometry and the Weber test. The software can be expanded with a variety of modules. Working with user groups and researchers, Decos constantly develops new modules that are always compatible with existing hardware platforms and that can easily be added to your software package. Below you find an overview of all modules currently available in Decos Audiology.

VRA (Visual Reinforcement Audiometry)

This module offers an advanced reward system for sound field children's audiometry. The VRA is equipped with a sound field setup with two speakers and two monitors. Pictures and films can be displayed as rewards directly from the software.



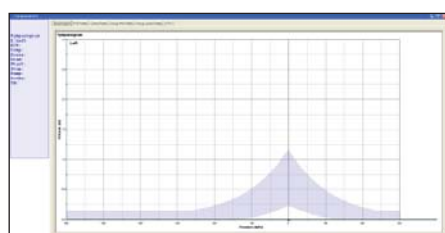
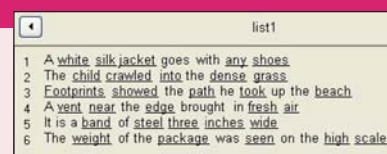
Right

High-Frequency Tone Audiometry

This module allows you to measure a range from 8 kHz up to 20 kHz. Thanks to the advanced analysis options, previous audiograms can be placed over each other in one window. This will give you a complete and quick overview of the degeneration process.

Speech and noise test

This module allows you to determine the ability of the patient to understand speech in a noisy environment. During the test, lists with sentences are played, that are to be repeated by the patient. You can choose between fluctuating noises and constant noises.

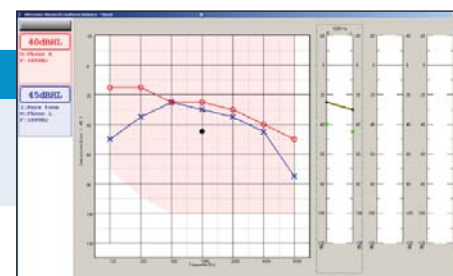


Import Tympanometry

This module allows you to add tympanograms and reflex measurements to your patients' records. For several types of tympanometers you can import the measurements directly, or you can manually enter the measured tympanograms.

ABLB test

During the Alternate Binaural Loudness Balancing Test a tone is alternately played to the left and the right ear. The patient must indicate when the left and right tones sound similarly loud.



Right		Left	
Tinnitus value	3667Hz, 50dB, Wabble	Tinnitus value	5000Hz, 96dB, Pure tone
Masked Tinnitus	5000Hz, 50dB, Pulse	Masked Tinnitus	96dB, White noise

Tinnitus test

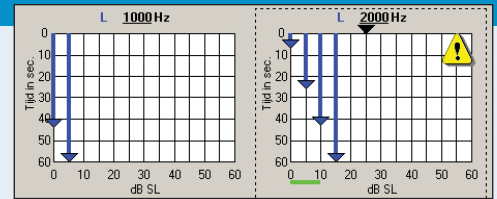
This module can be used to acquire a clearer picture of Tinnitus in a patient. The patient indicates when the stimulus is similar to the Tinnitus and when the Tinnitus is masked by the stimulus. The values are recorded in a Tinnitus table.

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Tone Decay Test

With this test it is possible to determine to what degree a tone remains audible for the patient if offered over a longer length of time. The patient should be able to hear the stimuli for one minute. The system evaluates the measured values and shows an alert in the case of a possible retro-cochleare pathology.



Directional Hearing Test

With this module, you are able to determine a patient's capacity to hear directions. You play a stimulus and masking at the same time, on randomly chosen speakers. The Decos Sound Arch consists of 13 active speakers, which each can be controlled separately.

Document module

With this module you can fill in a predefined questionnaire. After you have filled in the form, it is stored in Decos Audiology together with the measurement data of the patient.

A screenshot of a questionnaire form. The form has a 'Decreased:' section with a 'Date:' field containing '200'. Below this are two questions with radio button options. The first question is 'How many hours per day you use your hearing aid?' with options: 'No Use', 'Less than 1 hour per day', '1 to 4 hours per day', '4 to 8 hours per day', and 'More than 8 hours per day'. The second question is 'How much has the hearing aid helped you in past two weeks?' with options: 'Not helped', 'A bit helped', 'Rather what helped', 'Much Helped', and 'As lot of helped'.

A screenshot of the Audioplayer control interface. It shows two signal channels, 'Signal 1' and 'Signal 2'. Each channel has an 'Input' section with dropdown menus for 'Wave collection', 'DMAS5 V3 Rainbow passage (trac)', '22: Rainbow passage', and 'Left'. Below the input section is an 'Output' section with dropdown menus for 'Air', 'Left', and '60 dB SPL'. At the bottom of each channel, it says 'Sound index: 0 / 1'.

Audioplayer

This module is not a direct measurement module. Actually this module is meant for playing certain tones. You are able to play two signals. In this module, no measurement data is registered.

Besides the modules mentioned above, Decos has developed several tests in close cooperation with PACT, the Dutch Platform for Audiology and Clinical Testing.



Acalos test

Acalos is an acronym for 'Adaptive procedure for CAtegorical LOudness Scaling'. In this test, the patient is presented stimuli of different sound levels and different frequencies in random order. The measurement is, among other things, meant for measuring different gradations of hyperacusis.

Automated Directional Hearing

This module offers an advanced test to automatically determine the capacity of the patient to hear directions, following a fixed protocol. The presented stimuli and background sounds are played at random through the set up speakers following a pre-defined process.

Phoneme Test

This module was designed for testing the observance of vowels and consonants under different conditions. Non-existing words are used here.