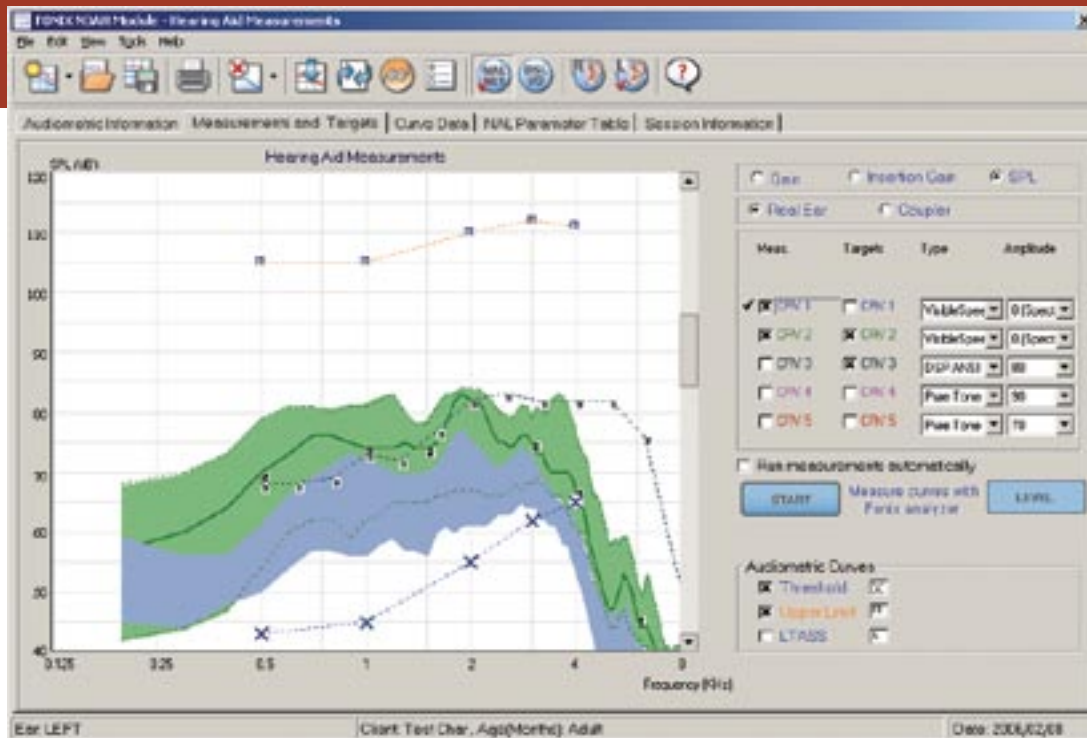


# FONIX NOAH Module

Verify your hearing aid fitting and perform audiometric measurements inside NOAH 3.



The FONIX NOAH Module works completely inside NOAH 3; all real-ear, coupler, and audiometric measurements are performed from within NOAH and all test results are saved directly into the NOAH database. The FONIX NOAH Module consists of two separate sub-modules: The Audiometry module and the Hearing Aid Test module. The modules can be purchased together or separately, depending on your needs.

## HEARING AID TEST MODULE

The Hearing Aid Test module consists of several different windows that allow you to view and import NOAH audiometric data, perform real-ear and coupler measurements, and compare these measurements to NAL-NL1 and DSL i/o targets.

### Visible Speech

The new Visible Speech feature in the Hearing Aid Test module allows you see the hearing aid's response to live speech or a pre-recorded external signal. It works by putting the analyzer into spectrum analysis mode and showing the real-time response of the aid to the live speech signal. As the display updates, Visible Speech keeps track of the minimum and maximum response of the aid across the frequency band and colors in the entire region of the response. This gives you a wonderful visual tool that you can use to demonstrate the potential of the hearing aid to your patient and show how the response of the aid compares to the patient's thresholds and uncomfortable levels.

### Import NOAH Audiometric Data

As soon as you open the Hearing Aid Test module, the latest NOAH audiogram saved for that patient is auto-

matically imported and displayed in the **Audiometric Info window**. If desired, you can use the *Import Audiogram* button to use a different NOAH audiogram for your hearing aid fitting. You can also perform RECD and REDD measurements in this window to customize your coupler targets to the ear canal resonance of your patient.

### Remotely Control Your Analyzer

You can take up to six different measurement curves in the **Measurements & Targets** window. The source type and source amplitude of each curve is selectable using pull-down menus, and you can start and stop the measurements using the *Start* button. This eliminates the need for most of the key presses on your FONIX analyzer and makes it easier to perform hearing aid tests. You can even automate the measurements by using the Auto Test feature. When enabled, this feature runs through all the measurement curves without pausing for user intervention and the auto test feature can be restricted to apply to only selected curves instead of all available curves. This allows the clinician to more effectively use the auto test feature and perform only necessary measurements and can focus their attention on the test results instead of the operation of the equipment.

## Use NAL-NL1 and DSL i/o Targets

Any audiogram saved in NOAH 3 can be used to create non-linear DSL i/o and NAL-NL1 targets used with real-ear and coupler measurements. These targets, along with NAL-RP, POGO, Berger, 1/3 Gain, 1/2 Gain, and 2/3 Gain real-ear targets are viewable in insertion gain, gain, and SPL. A target can be displayed for each measurement curve. As you make adjustments to the input signal, the target automatically adjusts to the new source type or amplitude so that it remains appropriate for the measurement. RECD measurements can also be taken to increase the accuracy of coupler targets.

## Import and Export Data with XML

All data measured with the FONIX NOAH Module can be saved to your computer's clipboard for use with another software program such as Microsoft Excel or Word. The Hearing Aid Test module also supports XML data exchange, allowing you to import and export your test results and share your data with others using the FONIX Hearing Aid Test module or FONIX Press & Go.

## One-click send audiogram

It is now possible to send all audiometric information (HTL, Bone, and UCL) data for both ears to the connected 7000 or FP35 hearing aid analyzer with one click.

The On Top mode opens a small test window that always appears on top of all other open windows. This allows the user adjust the hearing aid using a fitting module and perform adjustments to the hearing aid while simultaneously performing hearing aid measurements. This increases efficiency and accuracy in the hearing aid fitting process.

And the On Top mode contains the Frye Auto Test feature, allowing the clinician to automatically perform multiple frequency responses at pre-set levels, eliminating multiple steps in the testing process.



## AUDIOMETRY MODULE

The Audiometry module is an elegant, computer-based interface for your FONIX audiometer. It has straightforward controls that are intuitive and easy to use while also being flexible enough to accommodate the needs of different types of users.

### Remote Control of your Audiometer

For those hearing health professionals who prefer using their mouse to perform audiometric measurements, the Audiometer module provides controls to remotely operate most of the functions of the FONIX audiometer. The virtual control panel layout is similar to the front panel of the audiometer, making it very intuitive and easy to use by combining settings used by the Audiometer module into one easy-to-use window. If desired, you can enable the *mouse-over* setting to simply hold the mouse pointer over the stimulus button to present a tone, eliminating the sound of the mouse click from your testing.

### Automatically Collect Test Results

For those professionals who prefer using the traditional front panel dials, knobs, and buttons of their audiometer, the Audiometry module provides a way to collect measurement results from the FONIX audiometer in real-time.

When the user chooses the *Listen* mode, the Audiometry module establishes a connection to the audiometer and monitors all adjustments and button pushes made on its front panel. Whenever the stimulus button on the audiometer is pushed, the Audiometry module graph updates the ongoing test results with the current selected frequency and amplitude.

### Speech audiogram tab

This allows the clinician to plot speech testing as a function of amplitude. Four such audiograms can be plotted: unaided, left aided, right aided, and binaural aided. This type of testing can help document the improvement given by hearing aids to the patient.

### 1-page audiogram printout

This printout includes most of the important audiometric data on one vertical page. The audiograms for both ears have been combined into one graph.



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