

Inspire®  
2009



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## Axio™ and Vector™ with Impulse™ Technology

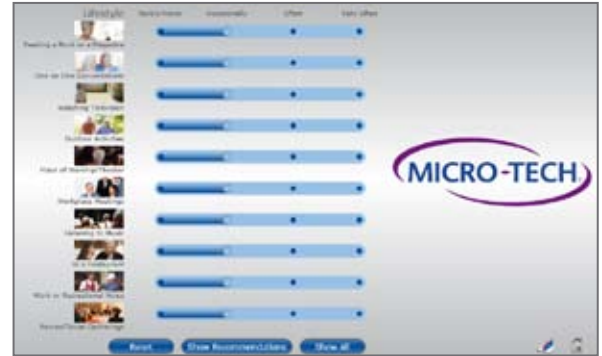
Thanks to Impulse Technology and the extraordinary new features it makes possible, Axio and Vector are the most complete and advanced line of hearing instruments, designed to fit the widest range of patients and lifestyles.

## Counseling Tools

Inspire 2009 delivers a more personal, accurate way to fit and counsel your patients. New counseling tools in Inspire 2009 include:

**Lifestyle Assessment Tool** incorporates a lifestyle questionnaire to generate recommended solutions for the most appropriate circuit and style options for your patients.

**Live Real Ear Measurement** accurately displays the hearing aid output in your patient's ear, in real-ear dB SPL, while the system evaluates the hearing aid response and matches the selected target.



Lifestyle Assessment Tool



Lifestyle Assessment Tool

## WHAT'S NEW IN INSPIRE 2009

**Live 3D Speech Mapping** includes a 3D display of input and output of the hearing aid in real time, flags a specific adjustment, and revisits a point in time.

**Enhanced Adjustment Screens** – The new Fine Tuning, Compression and Feature screens are designed to meet the needs of busy clinicians offering maximum flexibility with minimum movement through the software.

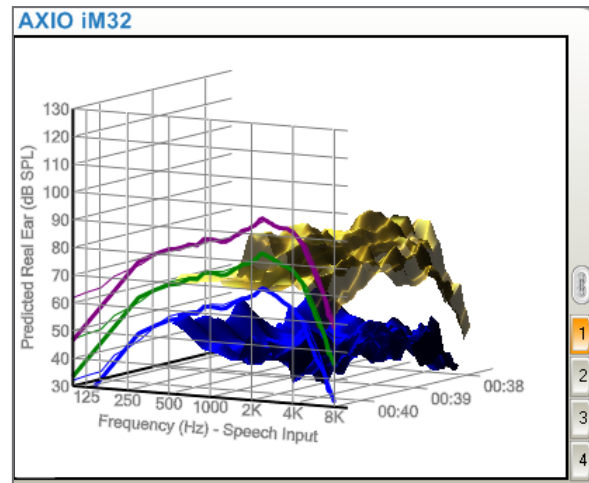
**New Default Display Settings** – Inspire 2009 represents best practices fitting protocols. These improvements have been carried forward in the display defaults. The input signal for the display curves are now representing a Speech Input and the input levels are 50dB, 65dB and 85dB for Soft, Average and Loud speech.



**Inspire Online** – contains frequently updated information on Inspire 2009 software, products, tips and tricks and other useful information.



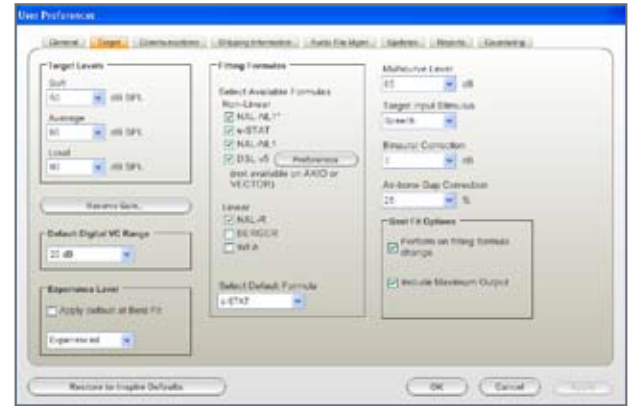
**Inspire Help** – Inspire 2009 Help is a comprehensive resource for in-depth information on the programming software and product fitting.



*Live 3D Speech Mapping*

# SOFTWARE INSTALLATION AND UPDATES

Inspire 2009 software includes customizable **User Preferences** to meet the individual needs of each practice. System default settings, such as choosing a fitting formula and inputting a logo for report printing, can be personalized for fitting hearing aids and working with patients.



*Inspire 2009 User Preferences*

## PRIOR TO INSTALLATION

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For successful Inspire installation and operation, please make sure your computer has the following:

- Processor Speed: Pentium 4 or higher recommended
- System RAM: 512 MB or higher
- \*Operating System: Windows® Vista, 32 bit, Windows XP Professional with Service Pack 2, or with Service Pack 4
- Communications Port for Programmer: Serial COM port or an approved USB to Serial converter is required for HiPro box
- Audio Hardware: 5.1 surround sound card and 5.1 surround speakers are needed to take full advantage of the Surround Town™ features
- Client Database: NOAH System 3.x, ProHear Deluxe or Standard, ProHear.NET

*For ProHear installations, PFS 4.5 must be installed to activate the audiogram feature in Inspire 2009.*

Selecting Typical or Custom during the install process determines whether both CDs are required.

\*New Multimedia features will only be available on operating systems with Windows XP Service Pack 2 or higher.

## INSTALLATION INSTRUCTIONS

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Inspire 2009 installation installs directly into the supported client database and does not require install from within the database. The application installs from the CD-ROM.

Inspire 2009 integrates several third-party audio/video applications to enhance the hearing aid fitting experience. The Inspire 2009 installation process searches for these applications and installs them automatically if they are not already on the computer. These files may include the following:

- Microsoft® Direct X
- Microsoft.NET Framework
- Windows Media Player
- Macromedia Flash Player

If prompted to restart the computer during this process, please continue to follow the prompts after restart until the “Finish” prompt appears.

Insert the Inspire 2009 CD labeled Disk 1 into the CD-ROM drive. If the autoplay feature is enabled, installation will begin automatically. Skip to Step 5. If autoplay doesn't start the installation automatically, start at Step 1.

*Further information regarding computer requirements can be found on page 32.*

# INSTALLATION INSTRUCTIONS

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**Step 1** Click the **Start** button in the lower left corner of the task bar.

**Step 2** Select Run.

**Step 3** Type in the following path: **D:\setup**.  
*Note: This path assumes that the CD-ROM drive corresponds to D:\. If the drive letter differs, then substitute the appropriate drive letter. For example, E:\setup.*

**Step 4** Click **OK**.

**Step 5** Click **Next** at the Installation Welcome screen (Fig. 1).



Figure 1

# INSTALLATION INSTRUCTIONS

**Step 6** Click to accept the end user license agreement and then click **Next** (Fig. 2). Inspire 2009 will install Microsoft Windows Media Player and Macromedia Flash Player if not already installed.

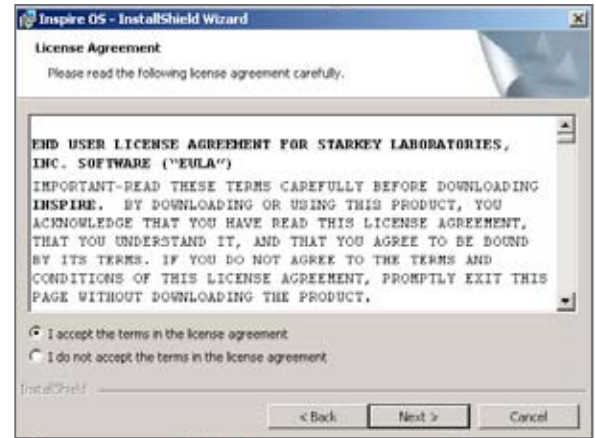


Figure 2

# INSTALLATION INSTRUCTIONS

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**Step 7** The default directory for installation is **C:\Program Files\Starkey Laboratories**. To accept this, click **Next** (Fig. 3). If you would like to install Inspire 2009 in a different folder, click **Change**, enter the preferred location and then click **Next**.

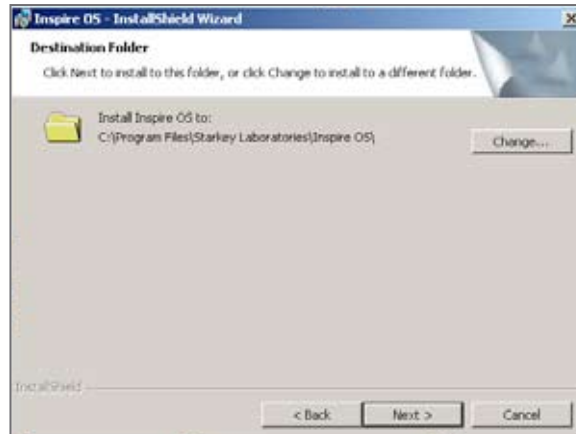


Figure 3

# INSTALLATION INSTRUCTIONS

**Step 8** Select the desired manufacturer to install and click **Next** (Fig. 4).

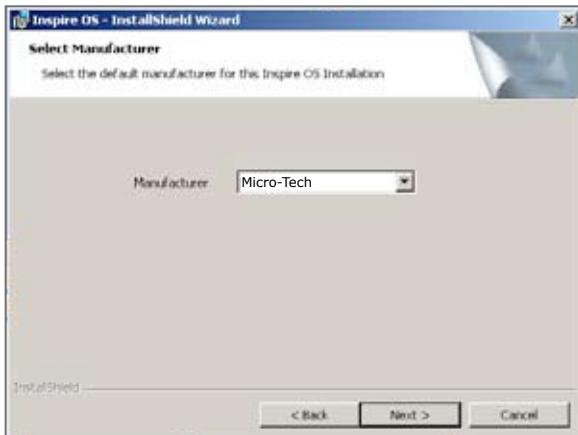


Figure 4

**Step 9** Select the desired target audience (country) and click **Next** (Fig. 5).



Figure 5

# INSTALLATION INSTRUCTIONS

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**Step 10** Select the locale to install and click **Next** (Fig. 6).

**Step 11** Choose the install type (**Typical** vs. **Custom**) and click **OK** (Fig. 7). **Typical** performs a full installation of Inspire 2009. **Custom** allows you to deselect items such as the Help File and Surround Town languages and may result in a faster install. If you select a feature that was not installed, a prompt will appear instructing you to insert one of the two Inspire 2009 CDs. After inserting the CD, the install will begin automatically.

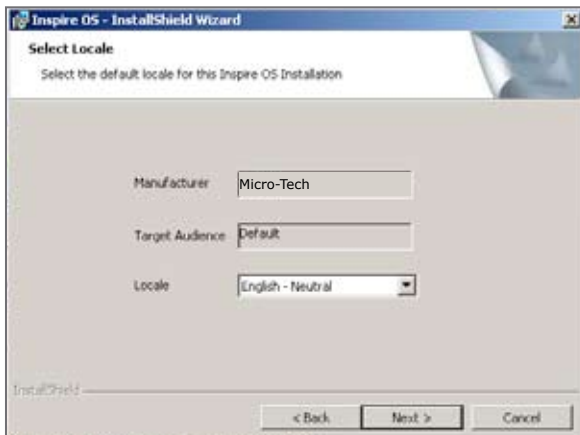


Figure 6



Figure 7

**Step 12** Click **Install** to begin the installation (Fig. 8).

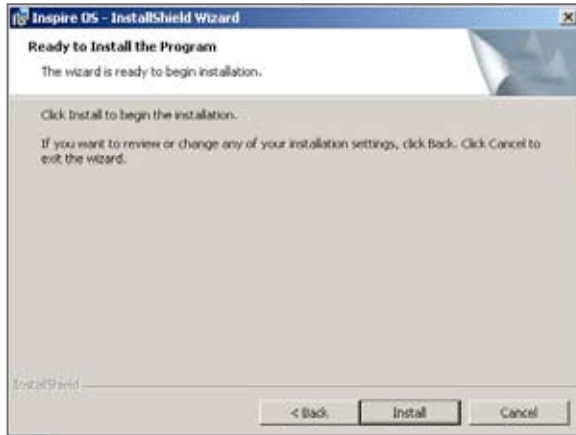


Figure 8

**Step 13** Status bar will show the installation progress (Fig. 9).



Figure 9

# INSTALLATION INSTRUCTIONS

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**Step 14** When prompted, insert Disk 2 if **Typical** install was selected. After inserting Disk 2 select **OK** (Fig. 10).

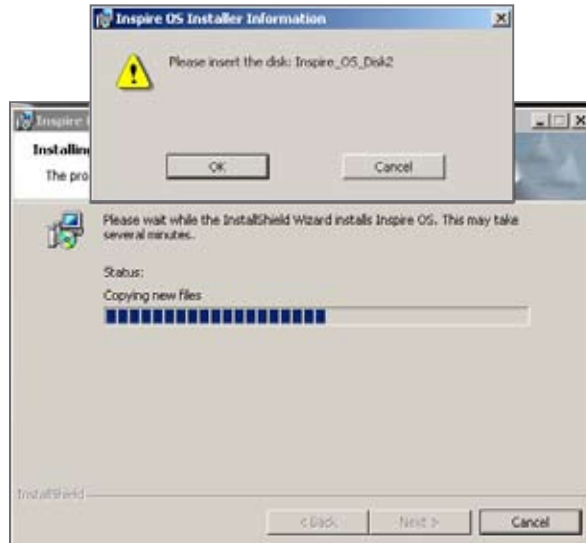


Figure 10

# INSTALLATION INSTRUCTIONS

**Step 15** The **Updater** will be updated (Fig. 11).

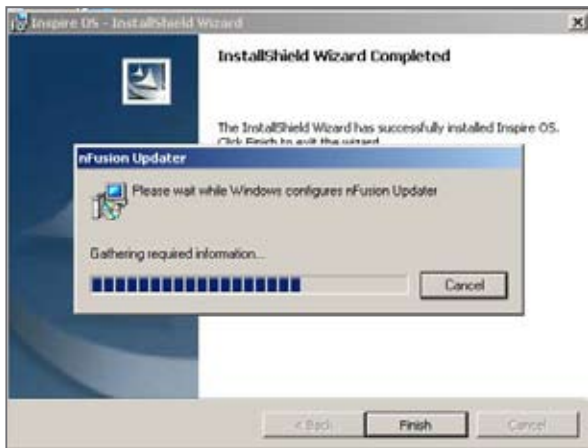


Figure 11

**Step 16** Click **Finish** to complete the installation (Fig. 12).



Figure 12

## GET STARTED SCREEN

The first screen in the Inspire 2009 software is the **Get Started** screen (Fig. 13). This is the “hub” of Inspire 2009. Use this screen to launch any of the software modules. The center of the screen displays the hearing instruments read in the software along with their serial number, matrix and firmware version. There are three quick access buttons.



The first, **Quick Connect**, reads the settings out of the hearing instruments and launches the programming software.



The second is **Session Connect**, to provide access to previously saved sessions for downloading into the hearing instrument.



**Auto Path** is the last button. This button can be used to launch **Auto Path** if it does not automatically launch when a new hearing aid is connected.



Figure 13

When a new hearing instrument is attached to Inspire 2009, *Auto Path* will automatically launch (Fig. 14). *Auto Path* provides a quick and easy method for completing the initial fitting. Procedures included in *Auto Path* vary depending on product level and may include: *Live Real Ear Measurement*, *Strategic Feedback Control* initialization, *Best Fit*, *Data Log* reset, *Self Check* baseline and *Clinician Customizations*. All procedures within *Auto Path* are selected by default. Click on an icon to deselect the procedure (Fig. 15). When the icon is gray this step will not be included in the *Auto Path* sequence.

Prior to placing hearing instruments in the ear, open *Auto Path* to ensure they are muted.

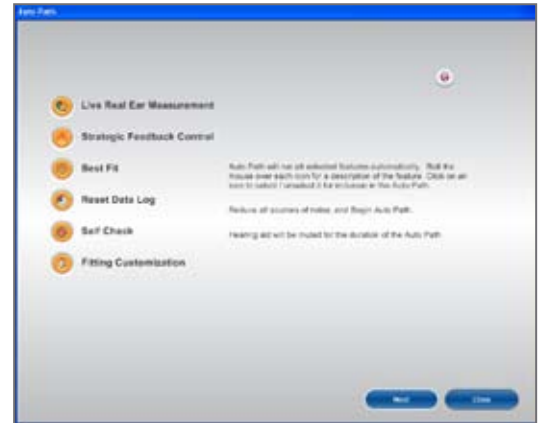


Figure 14



Figure 15

## LIVE REAL EAR MEASUREMENT

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For products ordered **Real Ear Ready**, the products will come assembled for the *Live Real Ear Measurement*. For products that do not come **Real Ear Ready**, the product will need to be set up for the *Live Real Ear Measurement*.

- Receiver-In-Canal products: Use the microphone cover removal tool to remove the chrome microphone cover (Fig. 16). Plug the receiver cable into the device. It should sit flush with the case. Insert the orange *Live Real Ear Measurement* microphone cover narrow end first. Snap the top portion down locking the receiver into the device (Fig. 17).
- Custom products: The probe tube should be plugged into the microphone port of the hearing instrument (Fig. 18).



Figure 16



Figure 17

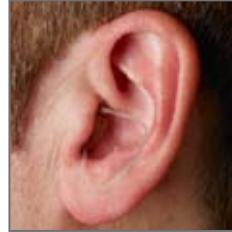


Figure 18

# LIVE REAL EAR MEASUREMENT

Select **Next** to start *Auto Path*. If prompted, select **Open** or **Occluded** from the **Acoustic Options** screen (Fig. 19) and then **Begin** to continue.

Place the hearing instrument in the patient's ear with the probe tube 5mm beyond the end of the receiver.

When prompted, replace the *Live Real Ear Measurement* accessories with the hearing instrument's microphone cover or simply remove the probe tube for custom devices.

*Auto Path* will complete the remaining procedures and provide status of each test. Choose the desired follow-up reminder and experience level (Fig. 20). Select Close to enter **Quick Fit** or click on the *Live Speech Mapping* icon to enter this objective measurement of audibility.

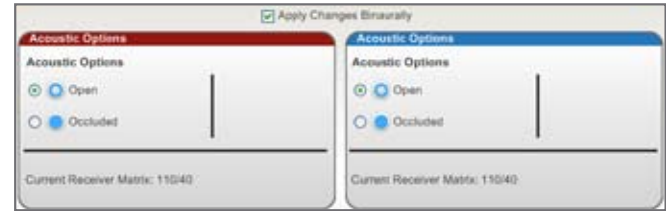


Figure 19



Figure 20

# QUICK FIT

**Quick Fit** is the default fitting screen and contains some new enhancements (Fig. 21).

Any displayed curve allows access to drag and drop functionality. Select specific frequency regions or the entire curve for adjustment (Fig. 22).

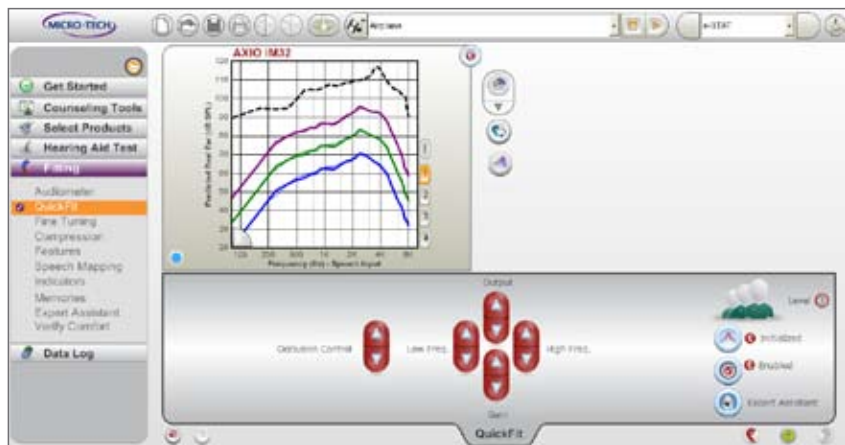


Figure 21

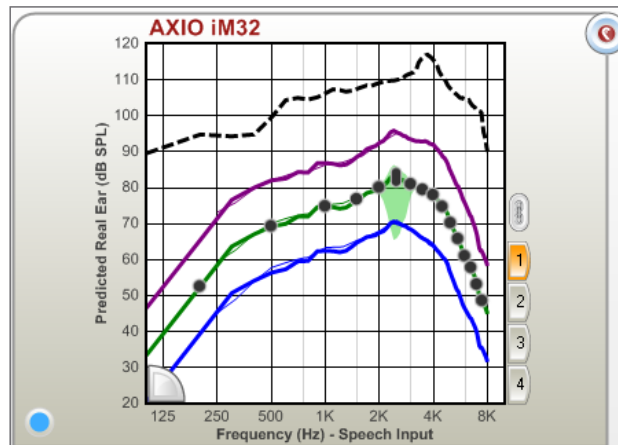


Figure 22



**Experience Manager** applies hearing aid settings based on the patient's previous experience with hearing aids. Click on the Experience Manager icon to access the three available settings: Experienced (default), Familiar and Inexperienced.



**Strategic Feedback Control** may be initialized from this screen. Select Stable Gain display to view stable gain ranges and to make adjustments.



**Self Check** runs a diagnostic check of the hearing instrument's microphone, circuit and receiver. The baseline measurement, indicator adjustments and results of diagnostic tests performed by the professional and/or patient can be accessed by clicking the **Self Check** icon on this screen.



**Expert Assistant** offers solutions to help with fitting.

## FINE TUNING

In the **Fine Tuning** screen, adjustments include overall gain in the Bands, the Channel Gain for Soft and Loud, and the Maximum Output. Select individual frequencies, multiple frequencies, a frequency region or the entire region (Fig. 23).

Click the downward arrow to view gain and output values in each band/channel (Fig. 24).

Click the **Expanded View** button  to provide independent band/channel sliders for MPO, Loud, Overall or Soft controls (Fig. 25).

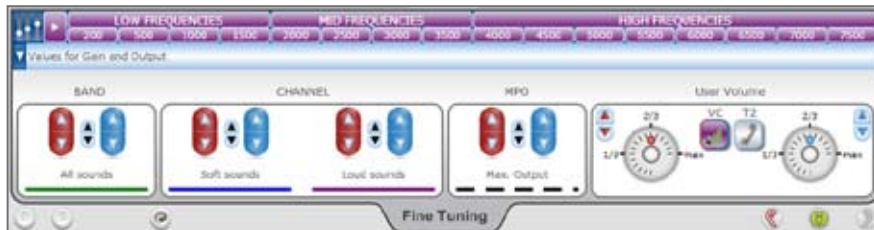


Figure 23



Figure 24



Figure 25

If the product contains a volume control, either standard or continuous digital, the reserve gain available within the control is programmed from **Fine Tuning** (Fig. 26).

The additional option of the  $T^2$  remote control is accessed here. The  $T^2$  remote control uses the touch-tones of a phone, either cell or traditional, to function as a remote control. The patient uses their phone to adjust memories, volume and to mute/unmute the devices (Fig. 27).

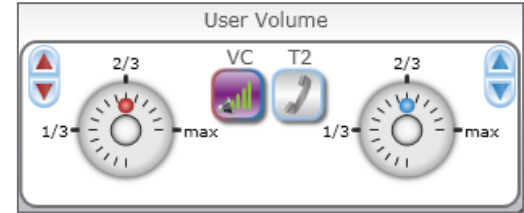


Figure 26



Figure 27

# COMPRESSION

The **Compression** screen provides two levels of adjustment, an overall adjustment and channel specific (Fig. 28). The **Threshold Kneepoint Preset** adjusts all channels in 8dB steps. The low setting is the default.

The right or left **Threshold Kneepoints** can be adjusted by 4dB steps using the up and down arrows on the control. Select a frequency region or specific frequency and adjust by using the up or down arrow. Click on the downward arrow to view all **Threshold Kneepoints** (Fig. 29).



Figure 28

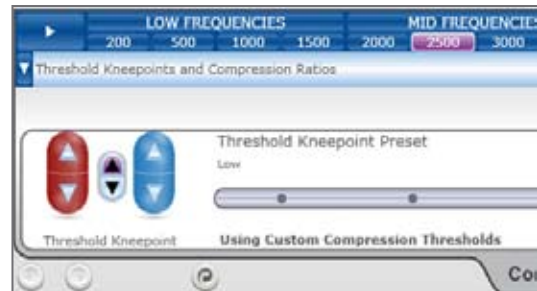


Figure 29

From this drop down window click on **Compression Time Constants** to adjust device time constants (Fig. 30). This is a global adjustment that will be the same in all memories.

The **Compression Ratio Control** is used to adjust the amount of compression (Fig. 31). The adjustment can be applied across the entire frequency range or in a specific frequency.

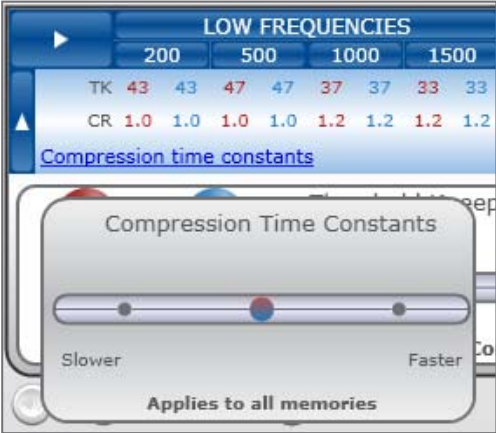


Figure 30

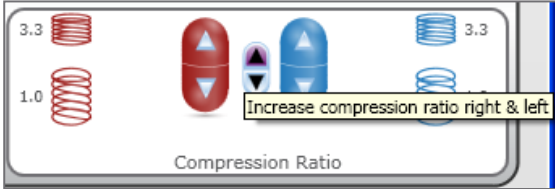


Figure 31

# FEATURES

The **Features** screen provides access to the advanced features including *Strategic Feedback Control*, *Self Check*, *Adaptive Environmental Sequencing*, and *Dynamic Directional Detection*, if available (Fig. 32).

*Strategic Feedback Control* initialization is accessible from the **Features** screen in addition to **Quick Fit** (Fig. 32). Once initialized, click the downward arrow to view the **Feedback Potential** and **Gain Margin** (Fig. 33). Select **Auto Gain Adjust** to view memories with potential feedback (Fig. 34). Click **Apply** to automatically reduce the gain at the potential feedback frequencies.

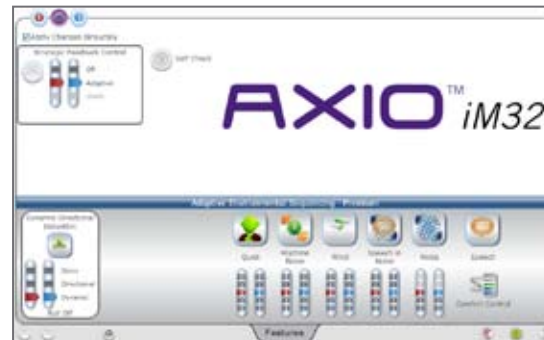


Figure 32

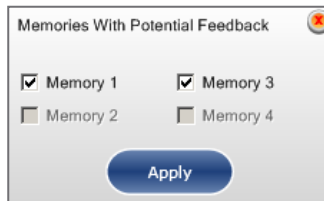


Figure 34



Figure 33

**Adaptive Environmental Sequencing** classifies noise in the patient's environment and automatically adapts to ensure patient comfort. The amount of adaptation is adjustable ranging from off (level 0) to 20dB (level 4) of automatic adjustment (Fig. 35). This range varies by product technology level. It can be set independently in each memory.

Click the **Adaptive Environmental Sequencing** icon to display in real time the automatic adaptation of that specific classification in each channel (Fig. 36).



Figure 35



Figure 36

## FEATURES

The new *Comfort Control* personalizes the actual threshold at which the *Adaptive Environmental Sequencing* engages. Defaulting at 0dB SNR, it can be adjusted from +5 to -5 in 2.5dB steps, depending upon each patient's tolerance and preferences for noisy environments (Fig. 37).

Click on the word for each of the *Adaptive Environmental Sequencing* algorithms, the time constants can be adjusted from fast to medium to slow (Fig. 38).



Figure 37



Figure 38

**Dynamic Directional Detection** is the enhanced dynamic directional system featured within Axio and Vector. Click the icon to set directionality to Fixed Omni, Fixed Directional, or to Dynamic Directional independently in each memory (Fig. 39). Clicking on the word **Rolloff** shows the amount of low frequency rolloff for both “wow” effect and additional control in difficult listening environments (Fig. 40). Selecting the words **Dynamic Directional Detection** accesses the directional switching sensitivity and time constants.

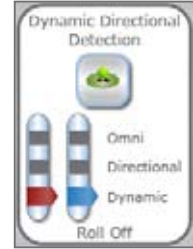


Figure 39

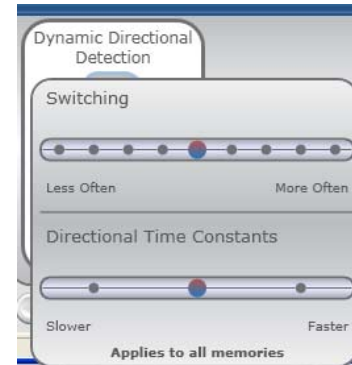


Figure 40

## FEATURES

*Live Speech Mapping* is enhanced in Inspire 2009 with the addition of a 3D view (Fig. 41). The option of choosing 2D along with Input, Output and Input + Gain is available. *Live Speech Mapping* also tracks time and flags adjustments.

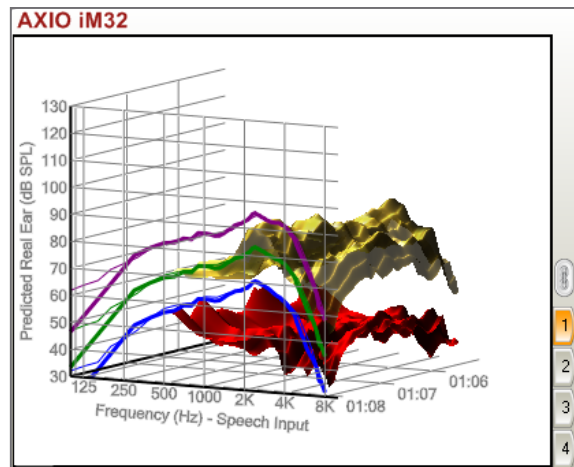


Figure 41

The *Indicators* screen allows customization of the voice and/or tone indicators as well as power on delay, automatic telephone release times, memory button function, and reminder. All indicators can be adjusted using a graphic display which allows the intensity level of the indicator to be determined relative to the patient audiogram and other indicator settings (Fig. 42).

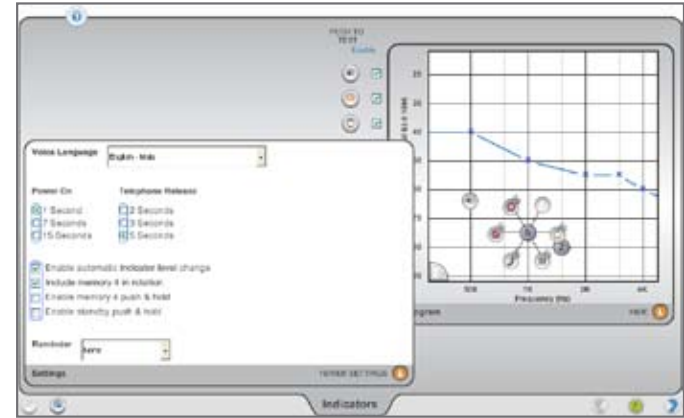


Figure 42

# LEISURE LISTENING MEMORIES

The *Leisure Listening Memories* are found in **Memories** (Fig. 43). Included in this new group is a Television environment, as well as a wide variety of music genres to meet patient preferences. New music memory programs include Classical, Country/Folk, Jazz/Latin, and Pop/Rock (depending on product technology level).

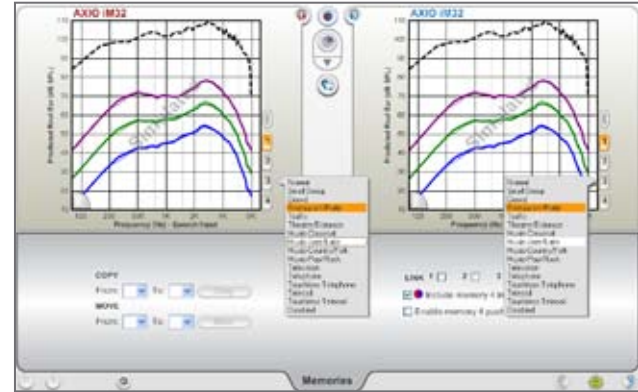


Figure 43

*Data Log* has a new look in Inspire 2009. The graphics are bigger and more colorful. The **Recommendations** screen is smaller and can be minimized. The ranges of input levels are displayed in 10dB increments to allow more accurate interpretation of the data. The **Features** have been included on one screen for ease of use. Hovering over the *Adaptive Environmental Sequencing* icon shows the amount of gain adaptation for each algorithm (Fig. 44).



Figure 44

# COMPUTER SPECIFICATIONS

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## System for Optimal Performance

Processor	Intel® Core™2 Duo CPU, 1.8 gigahertz (GHz) or higher (or equivalent processor like AMD)
Video Card	128 megabytes (MB) RAM
Operating System	<ul style="list-style-type: none"><li>• Microsoft Windows XP Professional (SP3 or higher)</li><li>• Vista (SP1 or higher)</li><li>• Must be 32-bit, 64-bit is currently not supported by NOAH</li></ul> <p>Note: Each OS should have the latest Windows service pack and critical updates installed, which are available from the Microsoft Security Web site</p>
Recommended RAM Requirements	2 gigabyte (2048 MB)
Hard Disk	Hard disk space required to run: 2 gigabytes
Display	Video: Greater than 1024 x 768 resolution, 32-bit color
Input Device	Microsoft mouse (or compatible pointing device), keyboard
Sound Hardware	5.1 sound card with 5.1 speakers
Programming Hardware	HiPro, USB HiPro, NOAHlink, or SpeedPort™ programmers
Office System	<ul style="list-style-type: none"><li>• NOAH version 3.6.1 or higher</li><li>• ProHear.NET</li></ul>
Other	High speed online connection

## Minimum System Requirements *(anything less will have an effect on the speed and functionality of the software)*

Processor	Intel Pentium 4 class, any speed MHz (or equivalent processor like AMD) <i>Processor speed has a direct effect on software speed and performance</i>
Operating System	<ul style="list-style-type: none"><li>• Microsoft Windows XP Professional (SP2 or higher)</li><li>• Microsoft Windows Server 2003</li><li>• Must be 32-bit, 64-bit is currently not supported by NOAH</li></ul> <p>Note: Each OS should have the latest Windows service pack and critical updates installed, which are available from the Microsoft Security Web site</p> <ul style="list-style-type: none"><li>• Microsoft Windows 95 is not supported</li><li>• Microsoft Windows 98 Second Edition is not supported</li><li>• Microsoft Windows Millennium is not supported</li><li>• Microsoft Windows 2000 is not supported</li></ul>
Minimum RAM Requirements	1 gigabyte (1024 MB) <i>Memory amounts have a direct effect on software speed and performance</i>
Hard Disk	Hard disk space required to run: 1 gigabyte
Display	Video: 1024 x 768 resolution, 24-bit color
Input Device	Microsoft mouse (or compatible pointing device), keyboard
Sound Hardware	PC sound card and desktop speakers
Programming Hardware	HiPro, USB HiPro, NOAHlink, or SpeedPort programmers
Office System	<ul style="list-style-type: none"><li>• NOAH 3.0 or higher</li><li>• ProHear 32 5.6 or higher</li><li>• NOAH 2.0 is not supported</li></ul>



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