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Inspire[®]
2011

11

11

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Prior to Installation

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 7, 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 or USB port for SurfLink™, SpeedPort™, NoahLink or HiPRO USB
- **Audio Hardware:** 5.1 Surround Sound card and 5.1 Surround Sound 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.

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

System Requirements for Optimal Performance	
Processor:	Intel(R) Core(TM)2 Duo CPU, 1.8 gigahertz (GHz) or higher
Video Card:	128 megabytes (MB) RAM
Operating System:	Microsoft Windows XP Professional (SP2 or higher) Microsoft Vista Microsoft Windows 7
Recommended RAM Requirements:	2 gigabyte (2048 MB)

Installation Instructions

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

Inspire integrates several third-party audio/video applications to enhance the hearing aid fitting experience. The Inspire 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
- Windows Media Player
- Microsoft.NET Framework
- 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 CD labeled Disk 1 into the CD-ROM drive and installation will begin automatically.

Further information regarding computer requirements can be found on page 44.

Installation Instructions

Step 1 Select Run.

The first screen shown in the installation process is the Welcome screen. The Inspire software licensing agreement will be displayed on the screen. After you have read the licensing agreement, place a checkmark in the box to accept the terms of the licensing agreement (Fig. 1).



Figure 1

Step 2 Click Next on the Installation Welcome screen (Fig. 2).



Figure 2

Step 3 Inspire allows you to perform a standard or custom installation of software. The standard installation includes all components. If you prefer to do a custom installation, uncheck any of the components shown on the screen: Inspire Updater, Surround Town and Help File.



Figure 3

You can customize the installation of Surround Town further by selecting the plus sign (Fig. 3) to expand the menu and display the multiple languages available for Surround Town. Place a checkmark next to the languages you want installed (Fig. 4).

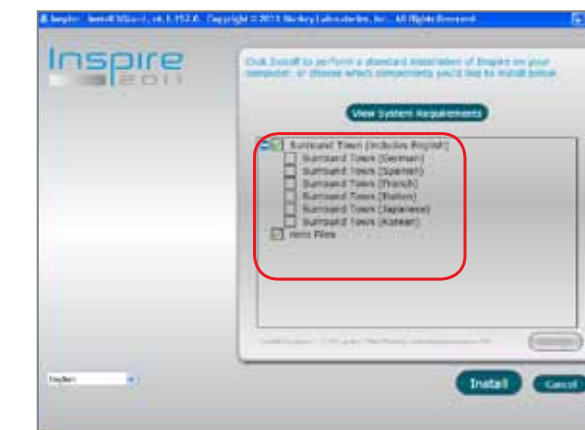


Figure 4

Installation Instructions

Installation Instructions

Step 4 To proceed with the installation, click Install (Fig. 5).



Figure 5

Step 5 Status bar will show the installation progress (Fig. 6).

Step 6 Click **Finish** to complete the installation (Fig. 6).

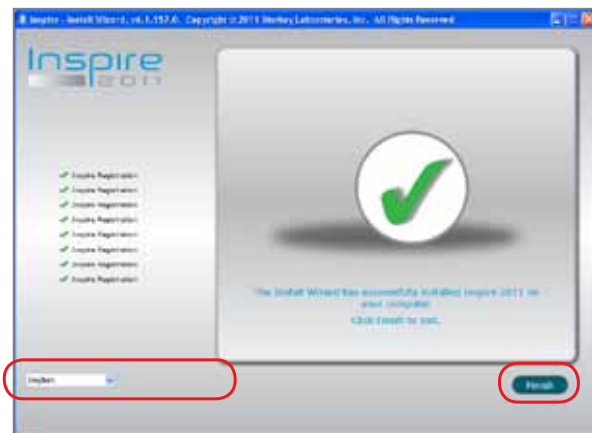


Figure 6

Preferences

Inspire 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 (Fig. 7).



Figure 7

Counseling Tools

Counseling Tools

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

Lifestyle Assessment Tool incorporates a lifestyle questionnaire to generate recommended solutions for the most appropriate circuit and style options for your patients (Fig. 8).

Hearing Loss Simulator includes five different display options (Fig. 9). It allows the professional to select any or all of the following options: **Display Common Sounds, Display Speech Sounds, Display Speech Spectrum, Articulation Index and Severity of Loss.**



Figure 8



Figure 9

Get Started Screen

The first screen in the Inspire 2011 software is the **Get Started** screen. This is the “hub” of Inspire 2011. 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.

The screen will look different depending on whether you are using wired (Fig. 10) or wireless (Fig. 11) programming.

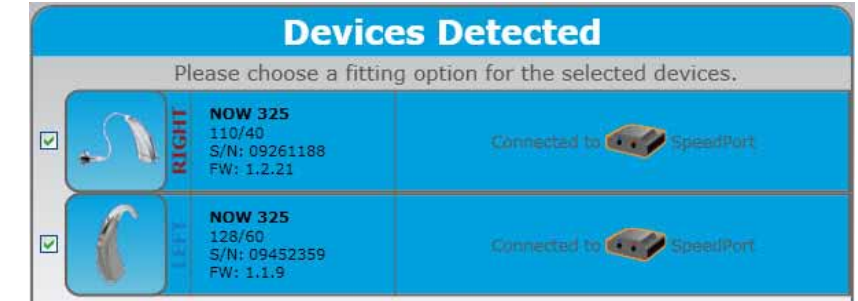


Figure 10

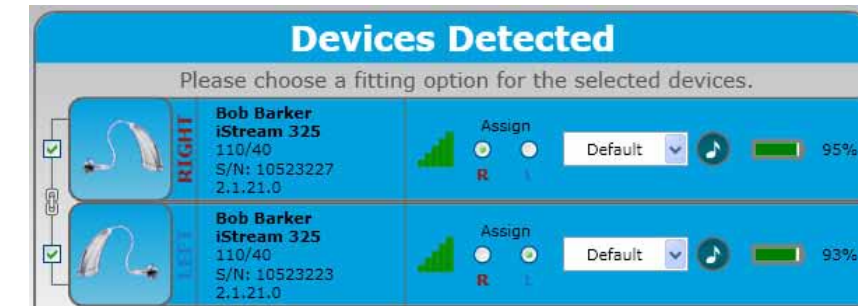


Figure 11

Get Started Screen

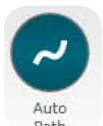
There are four quick access buttons:



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



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



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



If the devices contain firmware and/or product that is upgradable* in the office, the **Performance Update** icon will also appear on this screen.

*Firmware upgrade can include the following (depends on the detected product): DAI, VC indicator updates, VC range and step size for SelecTouch™ BTEs and T² On Demand. Product upgrade can include converting a NOW™ product to a NOW NT product of the same technology level.

Auto Path

When a new hearing instrument is attached to Inspire, **Auto Path** will automatically launch (Fig. 12). **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 Manager**, **Sound Shield** initialization, **Best Fit**, **Data Log** reset, **Self Check** baseline and **Fitting Customization**. All procedures within **Auto Path** are selected by default. Click on an icon to deselect the procedure (Fig.13). 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 12



Figure 13

Live Real Ear Manager

For products which are real ear compatible and are ordered **Real Ear Ready**, the products will come assembled for the **Live Real Ear Manager**. For products that do not come **Real Ear Ready**, the product will need to be set up for the **Live Real Ear Manager**.

- Receiver-In-Canal products: Remove the chrome microphone cover. Plug the receiver cable into the device. It should sit flush with the case. Insert the orange **Live Real Ear Manager** microphone cover narrow end first. Snap the top portion down locking the receiver into the device (Fig. 14).
- Custom products: The probe tube should be plugged into the microphone port of the hearing instrument (Fig. 15).
- Live Real Ear is available in all standard products. Figure 16 shows a BTE.



Figure 14



Figure 15



Figure 16



Live Real Ear Manager

Select **Next** to start **Auto Path**. If prompted, select the appropriate **acoustic option**. The options displayed are dependent on the detected product (Fig. 17). Click **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 Manager** accessories with the hearing instrument's microphone cover or simply remove the probe tube for custom and BTE devices.

Auto Path will complete the remaining procedures and provide status of each test. Choose the desired follow-up reminder and **Experience Level** (Fig. 18). Select **Close** to enter **QuickFit** or click on the **Integrated Speech Mapping** icon to enter this objective measurement of audibility.

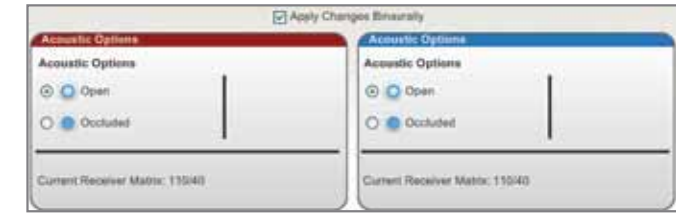


Figure 17



Figure 18

QuickFit is the default fitting screen and contains some new enhancements (Fig. 19).

Any displayed curve allows access to drag and drop functionality. Select specific frequency regions or the entire curve for adjustment (Fig. 20).

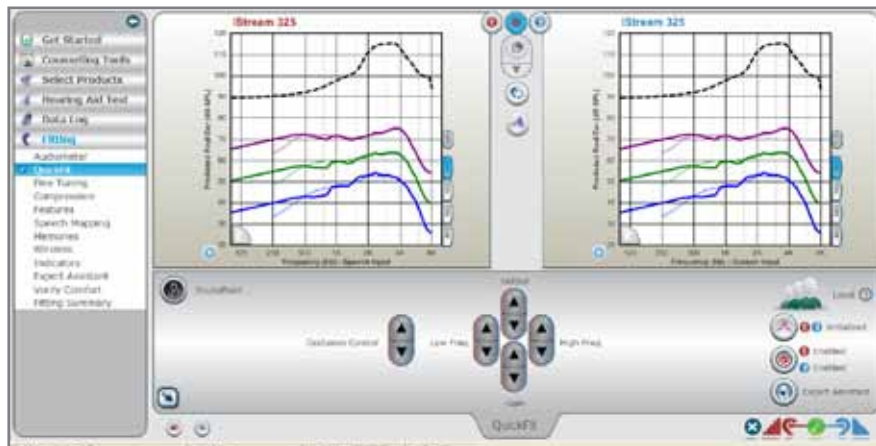


Figure 19

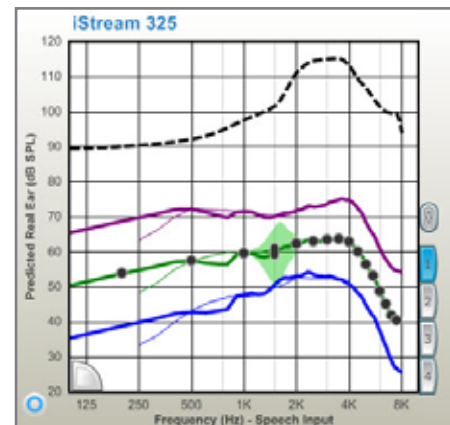


Figure 20



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.



Sound Shield 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(s), 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.



SelecTouch (available for the BTE and mini BTE products) may be accessed from this screen.



Push Button Configuration (available for iStream™ products) allows for customized volume and memory adjustments using the push button switch.



SoundPoint provides a patient-driven fitting tool for hearing aid fittings and troubleshooting. Click on the SoundPoint icon to launch the application which allows patients to pinpoint what sounds best to them through a series of adjustments to the hearing aid parameters.

SoundPoint

SoundPoint is a software feature that allows the patient to adjust their own hearing aids. It is an interactive and patient-driven feature designed to make the patient an active partner in the fitting and fine-tuning process. SoundPoint can be used with flagship products in both the iStream and NOW NT product lines. It can be used on individual memories or used globally.

To access **SoundPoint**, click the icon on the **QuickFit** screen (Fig. 21).

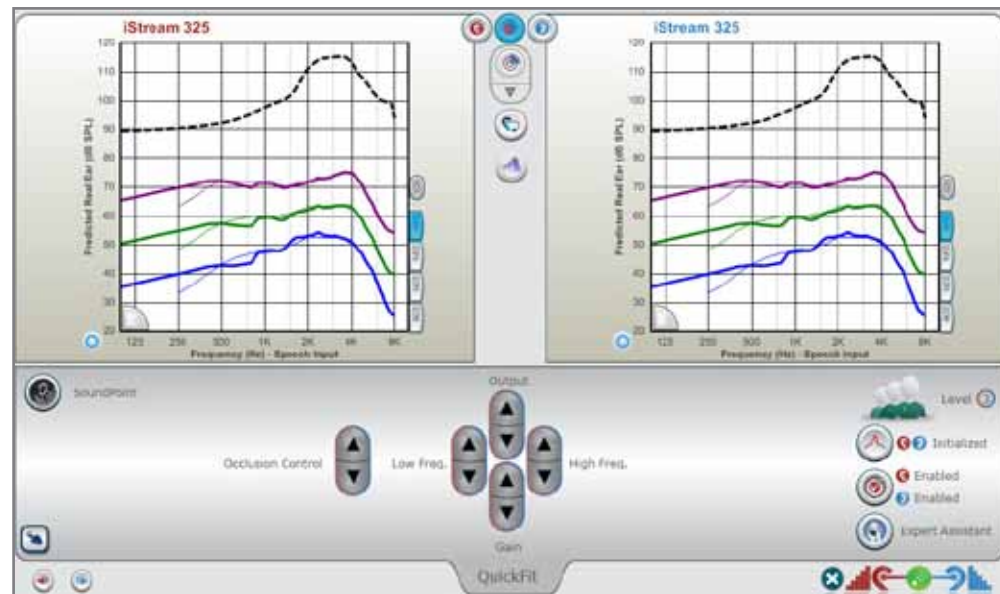


Figure 21

SoundPoint

The professional has the option to perform a calibration process prior to opening the **SoundPoint** screen. The patient should be positioned in front of the speaker. In the case of a 2-speaker system, the right speaker will be used. In the case of Surround Sound systems, the center speaker will be used.

Click on the **play** icon on the screen (Fig. 22).

The professional can adjust the level of the calibration signal by moving the slider bar on the screen with the goal of obtaining a 60dB level. The sound level meter will adjust based on the signal level. The vertical bar will be yellow if it is below the target level and it will be red if it exceeds the target level. Once the appropriate level is reached, the bar will be green.

Click on the **Continue with this volume level** to proceed with **SoundPoint** (Fig. 22).

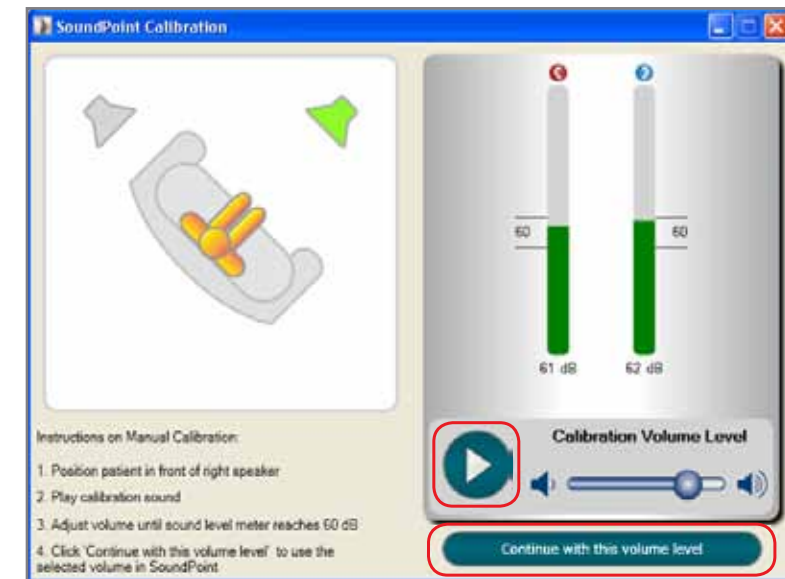


Figure 22

As **SoundPoint** begins, an additional initialization screen will be displayed (Fig. 23).

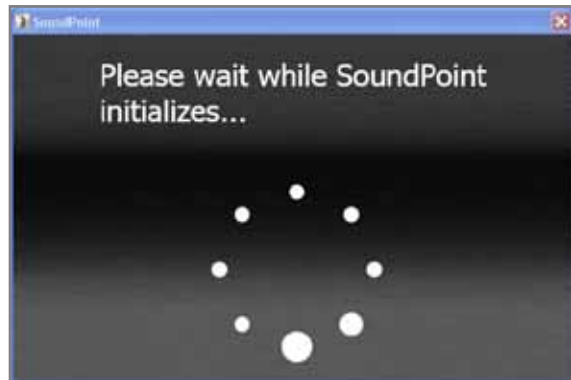


Figure 23

SoundPoint is configured for use with a conventional monitor and mouse or an iPad. If a remote device (an iPad) is used, make sure that Inspire preferences have been updated to recognize remote devices (Fig. 24 & 25).

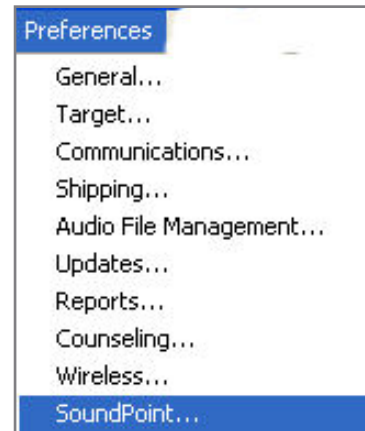


Figure 24

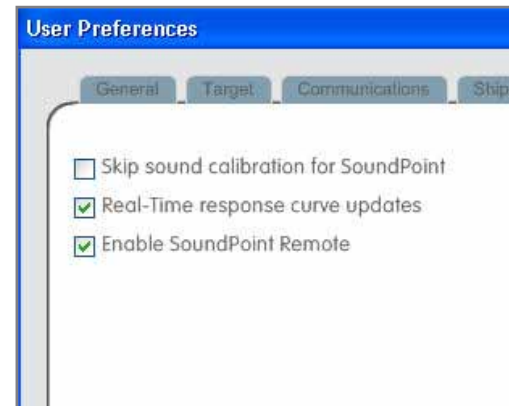


Figure 25

After completing the calibration process, make sure that the remote device is turned on and the **SoundPoint** application is open. A message will be displayed on the remote device that states that it is waiting for a connection to Inspire. Once Inspire detects a remote device, a menu will be displayed on the screen allowing the professional to select a remote device. Highlight the device in the list to start the fitting process (Fig. 26).

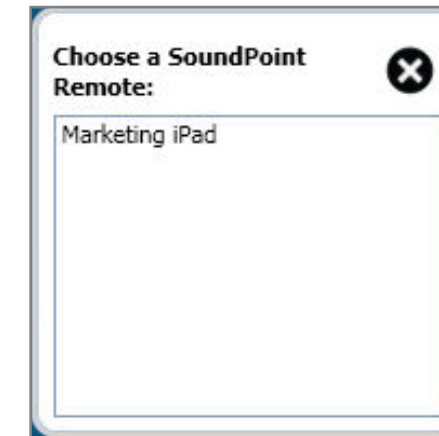


Figure 26

Once the initialization is completed, a blank screen will appear. The patient is instructed to navigate through the space as they listen to a stimulus until a location is reached that sounds most pleasing to them. Inspire 2011 uses the Connected Speech Test, by Dr. Robyn Cox. For more information, click on the (i) icon at the bottom left of the **SoundPoint** screen.

SoundPoint also allows the professional to use external sound sources. To use an external source, turn down the volume of the internal stimulus within the **SoundPoint** program.

As the patient listens to the stimuli, they can drag the computer mouse or finger across the screen to change the hearing aid parameters. Gain and compression characteristics will be adjusted based on where they place their finger/the mouse on the screen. White squares designate the points that the patient has stopped to listen to the connected devices (Fig. 27).



Figure 27

SoundPoint

The patient can designate several preference points within the space for comparison. The preference points, the points where a patient clicks the mouse or taps the screen, are designed by pushpins. Once the patient determines the point at which the hearing aid sounds best, they will click or tap on an existing pushpin. That preference point is designated by a star (Fig. 28).

Hovering over any symbol on **SoundPoint** displays three options (Fig. 29):

- 1) Play/Pause the stimulus
- 2) Remove the symbol from the screen
- 3) Lock the symbol in place, which is appropriate when the patient wants to compare the sound of different points (for PC application only)



Figure 28



Figure 29

SoundPoint

SoundPoint provides an interactive and intuitive tool for patient-driven hearing aid fitting.

- Standardized female speech in noise stimulus (CST) for average input level (60) dB at a +10 SNR
- Can be used at the initial fitting or follow-up
- Memory specific or global
- Available for any flagship (16-channel) device
- Can incorporate use of an iPad remote with wired or wireless products
- Can be used with a dual monitor to expose Inspire
- Real-time response curve update available as an option
- In a blinded study, Audiology Research found patients preferred their own fitting compared to professional fitting

The Inspire screen can be resized so that the professional can view the changes in the hearing aids in real time (Fig. 30).

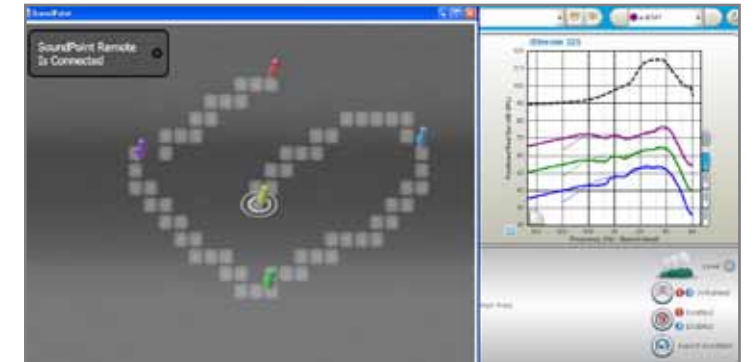


Figure 30

Fine Tuning

On the **Fine Tuning** screen, adjustments include overall gain in the Bands, the Channel Gain for Soft and Loud, the Maximum Output, and User Volume. Select individual frequencies, multiple frequencies, a frequency region or the entire region (Fig. 31).


Click the downward arrow to view gain and output values in each band/channel (Fig. 32). Click the **Expanded View** button  to provide independent band/channel sliders for MPO, Loud, Overall or Soft controls (Fig. 33).



Figure 31



Figure 32



Figure 33

Fine Tuning

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. 34).

All SelecTouch BTE products offer several choices for volume control range and step sizes. In addition to the default, 16dB range with 4dB step sizes, BTEs have the option to be set with one of three other choices: 1) 8dB range with 2dB step sizes, 2) 12dB range with 2dB step sizes and 3) 24dB range with 4dB step sizes. All four options will be available through the **User Volume** option in Inspire 2011 (Fig. 35).

NOTE: This feature is available for previously fitted SelecTouch BTE products with a firmware upgrade.



Figure 34

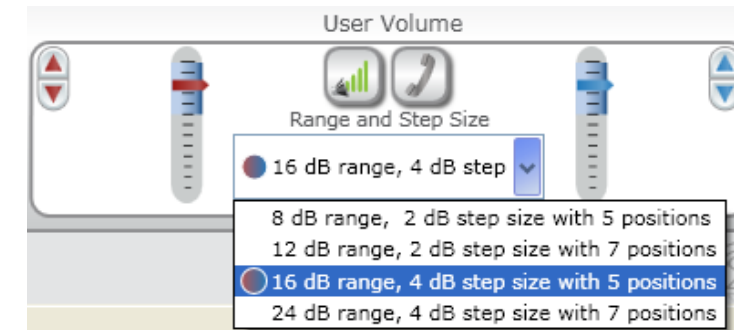


Figure 35

Fine Tuning

The additional option of the **T² Remote** adjustments are accessed here. **T² Remote** and **T² On Demand** control uses the DTMF tones of a phone, either cellular or traditional landline, to function as a remote control. **T² Remote** allows the patient to make temporary changes to their hearing aid using their phone to adjust memories, volume and to mute/unmute the devices (Fig. 36). **T² On Demand** allows the professional to make permanent adjustments to the patient's hearing aid remotely.

T² Remote and **T² On Demand** must be enabled in Inspire.

T² On Demand also allows the professional to customize the unlocking code. The default unlocking code is #99. To change either of the digits in the unlocking code, click on the drop down arrow and select a different digit (Fig. 36).

For more information about **T² On Demand**, including the programming codes and Patient Adjustment Worksheet, click on the (i) icon (Fig. 36).

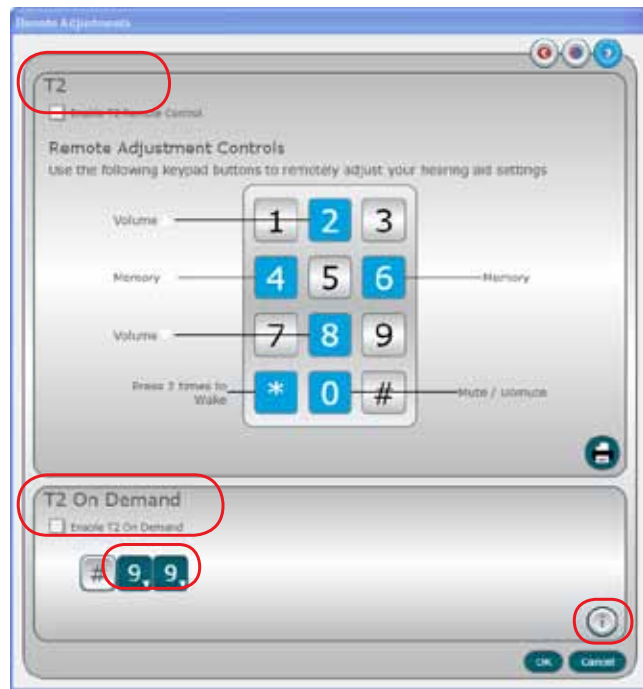


Figure 36

Compression

The **Compression** screen provides two levels of adjustment, an overall adjustment and channel specific (Fig. 37). 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 in 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. 38).



Figure 37

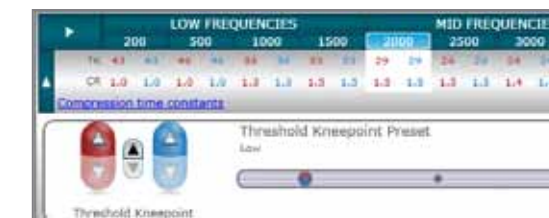


Figure 38

Compression

The **Compression Ratio** Control is used to adjust the amount of compression (Fig. 39). The adjustment can be applied across the entire frequency range or in a specific frequency channel.

From this drop down window, click on **Compression Time Constants** to adjust device time constants (Fig. 40). This is a global adjustment that will be the same in all memories.

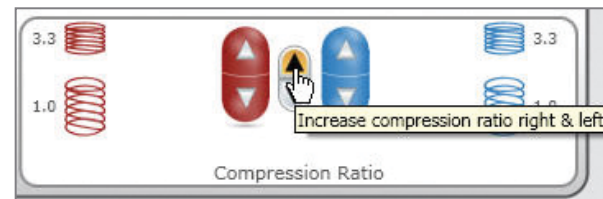


Figure 39

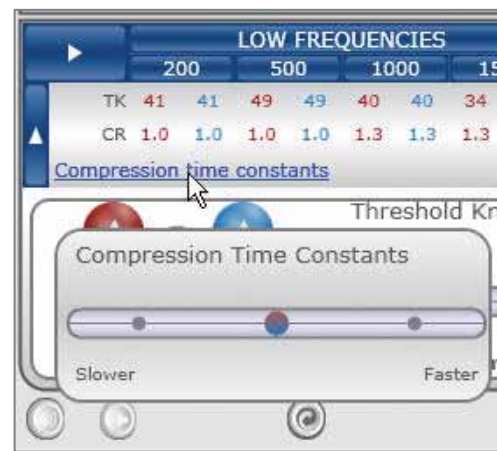


Figure 40

Features

The **Features** screen for the *iStream and NOW NT* products includes **Noise Tranquility**, **Quiet**, **Wind** and **Machine Noise**. All features default to setting 3 for the flagship products, which represents the following: Noise Tranquility- up to 10dB, Quiet- default expansion, Wind- up to 15dB and Machine Noise- up to 15dB adaptation (Fig. 41). Lower level products will have less adjustment capability.

All features can be modified to provide more activity or less activity.

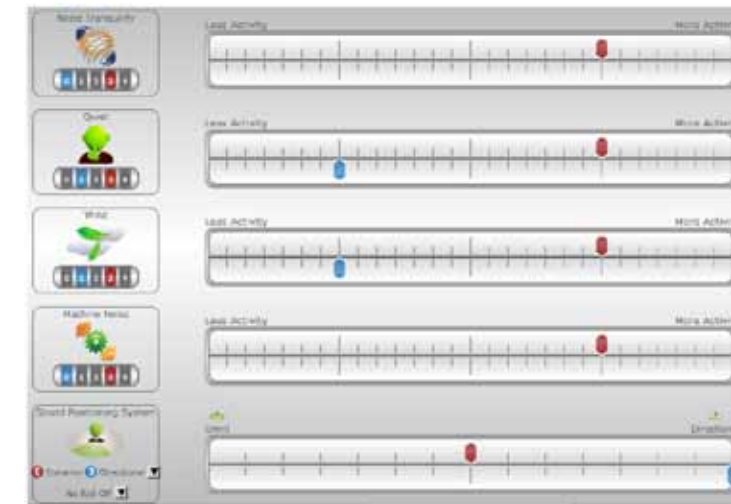


Figure 41

Features

The **Features** screen for the *iStream and NOW NT* products also includes a series of Acoustic Scenes. Clicking on any of the icons will demonstrate the expected response of the *PersonaFI* features in that specific environment. For example, the **Outdoors** Acoustic Scene displayed here shows full adaptation for *Wind* and partial for *Noise Tranquility* (Fig. 42).



Figure 42

Features

Sound Positioning System is the enhanced dynamic directional system featured within *iStream and NOW NT* products.

Selecting the words **Sound Positioning System** accesses the directional switching sensitivity and time constants. There are three choices of settings for directional: Omni-directional, Dynamic and Directional. All *iStream and NOW NT* products will default to Dynamic in memory 1 (Fig. 43).

All directional products are Best Fit with the **Low Frequency Roll Off** defaulting to **No Roll Off**. This setting is fully programmable and can be set per memory.



Figure 43

Features

Live Speech Mapping is enhanced in Inspire 2011 with the option to select a 3D view when fitting flagship products (Fig. 44). The 2D view can be customized by selecting Input, Output or Input + Gain as the preferred display option. **Live Speech Mapping** also tracks time and flags all adjustments when using the 3D view.

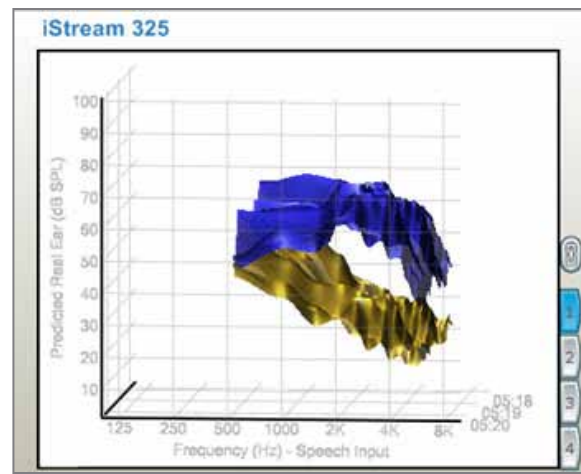


Figure 44

Memories

The **Leisure Listening Memories** are found in **Memories** (Fig. 45). 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).

The **Advanced Memory** screen has been enhanced to include the following adjustments: **Telephone Release** option as well as the ability to enable **Include memory 4 in rotation** and **push and hold** functionality (Fig. 46).

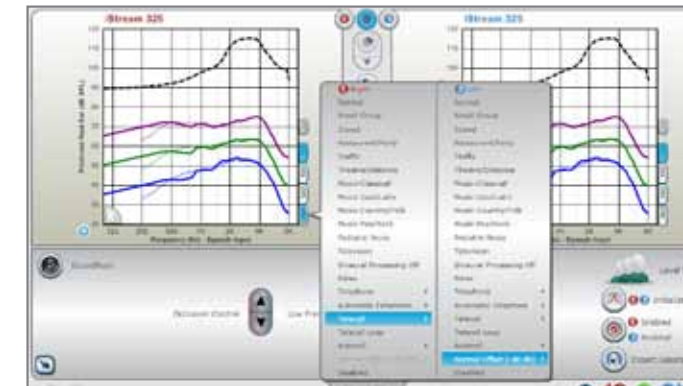


Figure 45



Figure 46

Wireless Configuration

The wireless configuration section includes two menus: **Binaural Syncing** and **Accessories** (Fig. 47).

The **Binaural Syncing** screen (Fig. 48) includes the options used to set all features for both manual control (Memory, Volume Control, Mute and Self Check) and automatic features (Dynamic Directionality, Wind Management and Machine Noise Management).

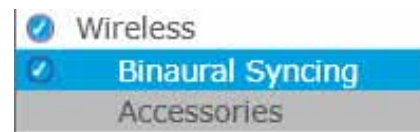


Figure 47



Figure 48

Wireless Configuration

The **Accessories** screen is accessed when setting remote controls and SurfLink Media devices (Fig. 49).



Figure 49

Indicators

The **Indicators** screen allows customization of the speech and/or tone indicators. Global changes can be made to the indicators for the **iStream and NOW NT** products.

As changes are made to the default settings, the screen will display the changes as they relate to changes in volume (adding/subtracting volume from the default setting) (Fig. 50).

Also on the **Indicators** screen for the **iStream and NOW NT** products, is the simplified method of changing level and frequency of an individual indicator (Fig. 51). Indicators can also be played through the computer speakers from this screen.

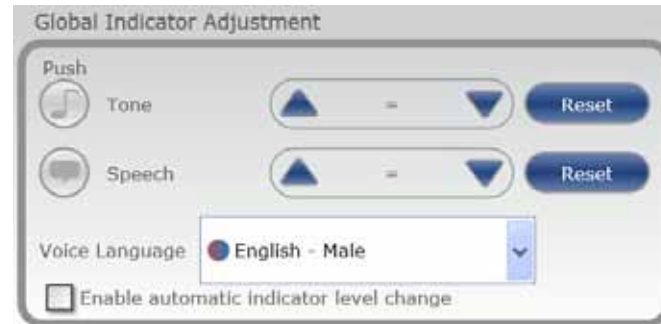


Figure 50

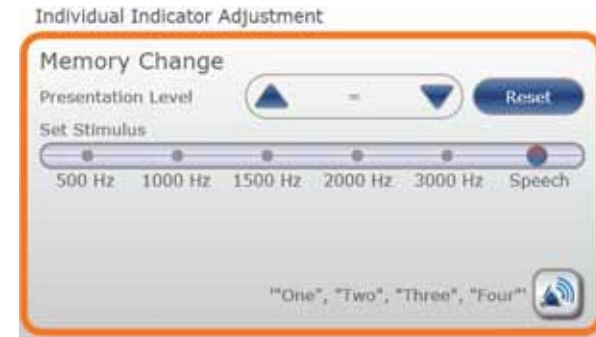


Figure 51

Indicators

AudioSync continues to add voice indicators, based on customer requests. Inspire 2011 includes 26 languages (Fig. 52).

A sample of all voice indicators and **T² On Demand** commands are available through the Media Player (Fig. 53).



Figure 52

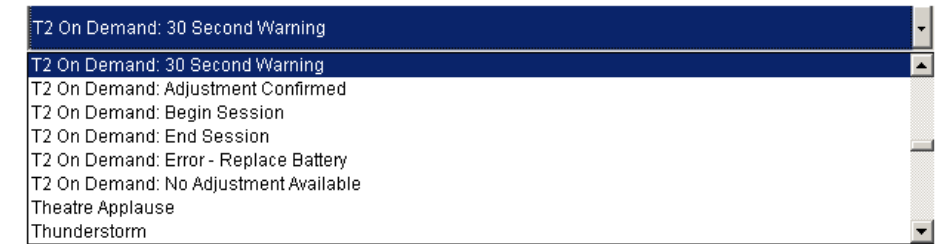


Figure 53

Fitting Summary

The **Fitting Summary** is available for *iStream and NOW NT* products. It includes the following information: frequency response curves, programmed memory environments, indicators and status of all features.

The features listed under the **Status** section of the **Fitting Summary** include: **Sound Shield**, **Self Check** (if applicable), **Experience Level**, **T² status**, **SelecTouch configuration** (if applicable), **Power on Delay** and **Reminder** (Fig. 54).

Each feature has hyperlinks to the fitting screens to allow enabling and adjusting of the feature.

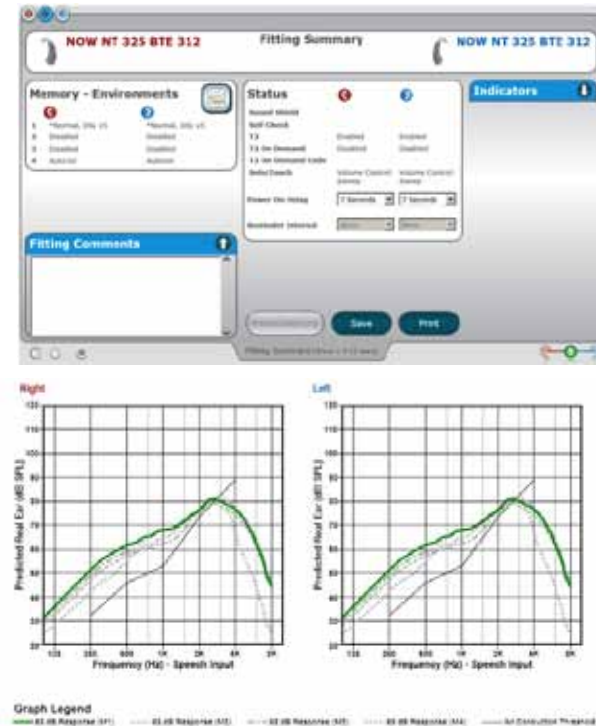


Figure 54

Data Log

Data Log information resides above **Fitting** data on the left navigation bar. It has been enhanced to include utilization for recently added features. The professional can access data related to Switch Utilization and DAI as well as product features such as Self Check, Directionality and PersonaFI. The type of data tracked will depend on the hearing devices connected or simulated (Fig. 55).

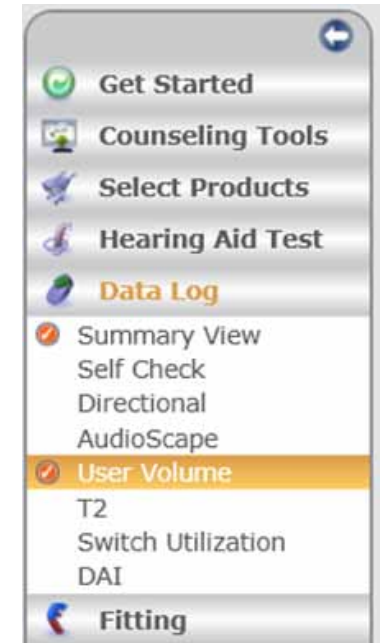


Figure 55

PersonaFI Data Log

includes data related to Noise Tranquility activation (Fig. 56).



Figure 56

The Data Log User Volume

screen includes data reports related to overall user volume and sound classification (Fig. 57).



Figure 57

Data Log

The **Data Log T²** screen includes data reports related to **T² Remote** and **T² On Demand** usage (Fig. 58).

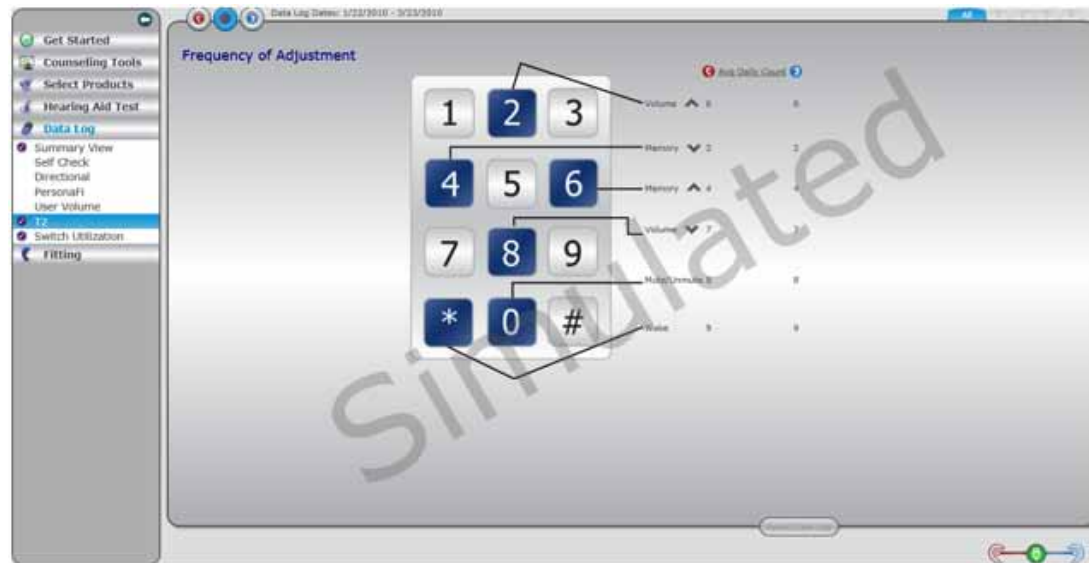


Figure 58

Data Log

The **Data Log Switch Utilization** screen includes data reports related to **SelecTouch** settings (Fig. 59).



Figure 59

Computer Specifications

System for Optimal Performance

Processor	Intel® Core™2 Duo CPU, 2.4 gigahertz (GHz) or higher (or equivalent processor like AMD)
Video Card	128 megabytes (MB) RAM
Operating System	<ul style="list-style-type: none"> • Microsoft Windows XP Professional (SP3 or higher) • Vista (SP2) • Microsoft Windows 7 • 32-bit or 64-bit (64-bit is supported only with NOAH 3.7) <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	USB HiPro, NOAHlink, or SpeedPort programmers
Office System	<ul style="list-style-type: none"> • NOAH version 3.6.1 or higher • ProHear.NET
Other	High speed online connection

Computer Specifications

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"> • Microsoft Windows XP Professional (SP2 or higher) • Microsoft Windows Server 2003 • Microsoft Vista • Microsoft Windows 7 • 32-bit or 64-bit (64-bit is supported only with NOAH 3.7) <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"> • Microsoft Windows 95 is not supported • Microsoft Windows 98 Second Edition is not supported • Microsoft Windows Millennium is not supported • Microsoft Windows 2000 is not supported
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"> • NOAH 3.0 or higher • ProHear 32 6.2 or higher • NOAH 2.0 is not supported

AudioSync >>>

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12/10 BKLT0221-00-EE-AD