FOR PROFESSIONALS

Cochlear®
Hear now. And always

Osia® Fitting Software 2

Version 2.1

Desk reference

Osia® Fitting Software

Desk reference

Introduction

This Desk Reference provides an overview of the Cochlear™ Osia® Fitting Software (OFS) screens and features.

NOTE
For information about installing the OFS, please refer to the OFS User Guide.

Installation

Download the software from the Cochlear Software Distribution Service (CSDS) and run the installation program. When the download is completed, open the location of the downloaded file and start the installation by double clicking the set-up file, named e.g., “SetupOsiaFittingSoftware2.exe.” You are required to install the software from a local hard drive (e.g., C:) and not a network drive or removable media.

Refer to the user manual or contact your Cochlear representative for further installation support.

To help us continually improve the software and services, Cochlear would like to receive de-identified information about the use of the software. During installation you will be asked to agree or disagree to participate. If you agree to participate, the software will periodically send computer and software analytics (e.g. error logs, hardware and software configuration details etc.) and de-identified recipient analytics (e.g., age, hearing loss, connection type etc.)

System requirements

Please refer to the OFS User Guide. This may be found embedded in your installed software or at www.cochlear.com/manuals.

Version information

Access “About” in the Settings menu to display the software version and view regulatory information.

Installation using Active Directory security group

It is possible to configure Osia Fitting Software 2 (version 2.1.1 or higher) to allow users to login without a password by using Active Directory security groups.

To activate login through Active Directory:

- Create an or use an existing Active Directory security group for the purpose.
- Add all users who should have access to Osia Fitting Software 2 to this group.
- Start the installation of Osia Fitting Software 2 (version 2.1.1 or higher).
- In the installation pop-up tick the box “Change to Active Directory security group”.
- Add the name of the Active Directory group where your Osia Fitting Software 2 users are added (only group name, leaving out the directory name).
- Click Validate to allow the installation to check that the Active Directory you entered is available.
- Click Install to continue the installation.

Cochlear™ Fitting Suite

Navigation within the software

When opening the software you will first enter the Cochlear Fitting Suite (fig. 1), a single point of access, where you can select which Cochlear Acoustics System you would like to fit.

For information on the feature set of the Cochlear Osia 2 and Osia 2(I) Sound Processor (fig. 2), click the "i" button next to the Start button.

To launch the software from the Cochlear Fitting Suite, select the Osia Fitting Software and click **Start**.

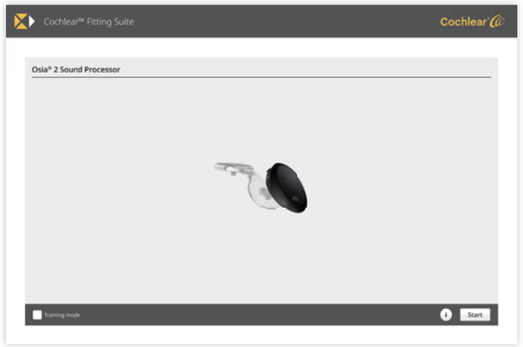


Fig. 1: Cochlear Fitting Suite home screen

Login and audit trail

To prevent unauthorized persons to access any data in Osia Fitting Software, the user needs to log in to the system with their Windows credentials. If using Noah, no additional log-in will be needed.

The login will also enable an audit trail within the software, which logs and saves activities to be accessed by a user at a later stage. The login and audit trail is required in order to adhere to cyber security standards.

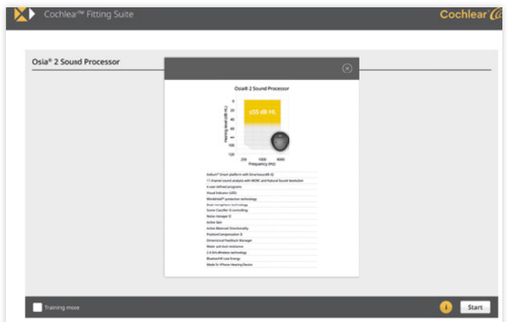


Fig. 2: Sound processor information

Navigation

Several fitting workflows are available to guide you through different fitting scenarios. The choice of workflows are split into two tabs: Fitting and Setup.

Fitting tab (fig. 3)

First fitting will guide you through all necessary steps to fit a new sound processor to a patient. Any data saved in the sound processor prior to the session will be removed.

Follow-up fitting is a simplified connection flow that will send you directly to the adjustment screen to perform adjustments to the sound processor.

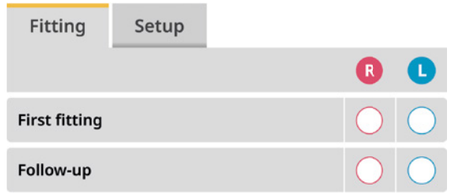


Fig. 3: Fitting tab

Setup tab (fig. 4)

Create a patient file allows you to prepare a patient file and save it prior to the fitting session.

Reset to out-of-box settings removes all patient data from the sound processor and resets the gain and features to out-of-box settings.

Set up replacement sound processor guides you through setting up a replacement device for a patient. Note that a patient file needs to be available to perform this activity.

View session opens a Noah file to view only.

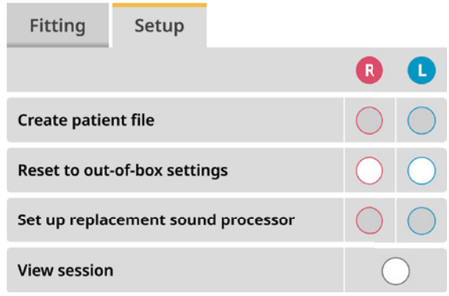


Fig. 4: Setup tab

Navigation

Top menu (fig. 5)

A Cochlear Fitting Suite: Return to the Cochlear Fitting Suite for selecting sound processor generation.

B Patient: Enter information about the patient and hearing care professional (in standalone mode).

C Prescribe: Configure the sound processor to match the patient's thresholds, profile and listening needs.

D Fitting: Adjust gain and features of the sound processor to match patient preferences.

E Save: Continue or reset data logging, save settings to the sound processor or file system and access and print a session report.

F Data logging: View settings and environment statistics collected through the sound processor.

G Comments: Opens a text editor used to enter fitting session notes.

H Settings: View installed software component versions and legal/labelling information as well as choose language and mange Audit trail log. Manage consent or decline to share de-identified patient fitting info for purposes of statistics collection.

I Help: View information for sound processors and fitting assistance. View available instructional videos.

Bottom menu (fig. 6)

Once connected you can navigate through the workflows using the Previous J and Next K buttons in the lower panel.

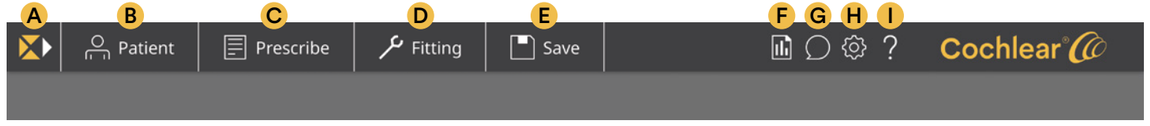


Fig. 5: Menu

Fig. 6: Status and navigation

Patient Information

Patient and clinic information (fig. 7) can be entered or displayed in the Patient Information screen. The information that appears here can be printed in the Session report at the end of the session.

Importing a previous session or patient

From stand-alone mode: Previously saved patient data may be imported from the previous saved file. The OFS supports Noah file formats.

From Noah or other office system: Patient information and Audiogram screens will be automatically filled in and can be viewed but not edited in the OFS.

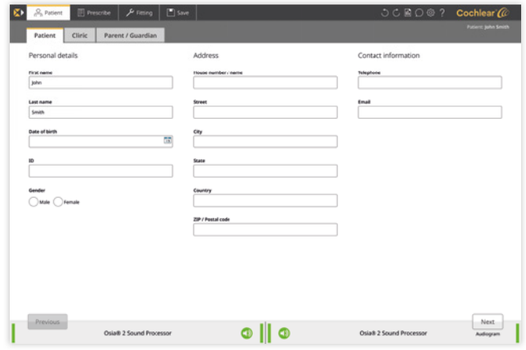


Fig. 7: Patient Information

Starting a new patient session

If you have entered information, or imported a file, but would like to start over with a new patient, click the **New patient session** button. This action will remove all information in the current session.

NOTE
Start new patient session will erase all information in the open session.

Connection

The steps you will need to perform when connecting a sound processor depends on whether this a first fitting of a new sound processor or a follow-up session.

Before connecting

The first fitting of the Cochlear™ Osia® System requires the use of a wired interface to individually associate the sound processor to the implant. The Cochlear Osia Fitting Software (OFS) 2.1 only supports the Hi-Pro 2* wired interface with the Cochlear CS45 programming cables. At a follow up session you may use the Noahlink wireless* interface.

To start a wired fitting session

1. Connect the Hi-Pro 2 cables to the computer's USB port.
2. Start the OFS, in Stand Alone mode or from Noah.
3. Turn on the Cochlear Osia 2 or 2(I) Sound Processor – the green LED will be continuously flashing. Make sure to use a fresh High Power Implant battery in order to keep a stable connection.
4. Connect the Cochlear CS45 programming cable to the sound processor and the Hi-Pro 2.

Selecting an Activity (fig. 8)

When entering the software the Activity Screen will automatically pop up. Be aware that all fitting sessions need a fresh high-power implant battery in the sound processor.

- Select the fitting interface you would like to use from the drop-down list.

NOTE
Starting new patient session will erase all information in the open session.

- Select your chosen activity for the side(s) you are fitting from the available options.

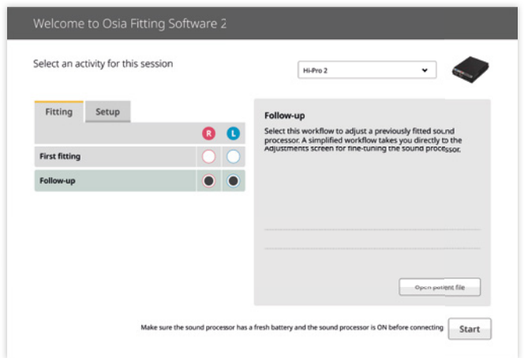


Fig. 8: Activity

* The Hi-Pro 2 and the Noahlink wireless are not Cochlear products. Contact your local Cochlear representative for more information.

First fitting

- Connect to sound processor (fig. 9)
- Associate with the implant (fig. 9)
- Perform Digital Link Calibration (fig. 10)
- Perform Feedback Analyzer (fig. 11)
- Finalize

OFS will connect automatically to the Osia 2 or 2(I) Sound Processor. Once connected the OFS will associate to the implant. Make sure the sound processor is placed over the implant coil for association to occur. If performing a bilateral first fitting, the OFS will perform the connection and Digital Link Calibration for each side sequentially, starting with the right ear. Once connection and association are complete, click **Next**.

Run the **Digital Link Calibration** – be sure to inform your patient that the calibration will involve tones that might be perceived as loud. When Digital Link Calibration has finished, click **Next**.

Run the **Feedback Analyzer**. This test measures the individual feedback margins for the sound processor when in situ. For an optimal result, ensure the test is performed in a quiet environment. Once the test has been performed, click **Next**.

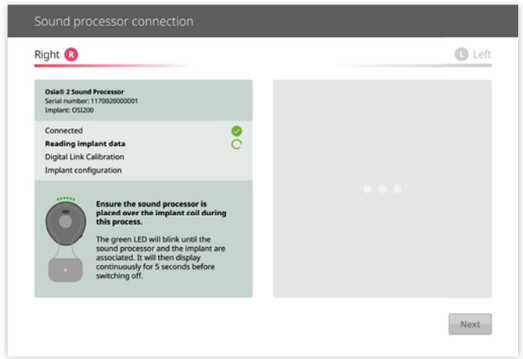


Fig. 9: Connect and Associate

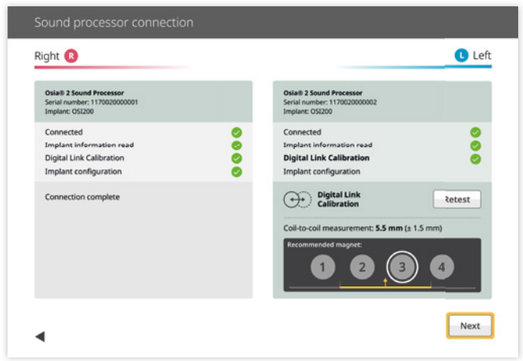


Fig. 10: Digital Link Calibration (DLC)

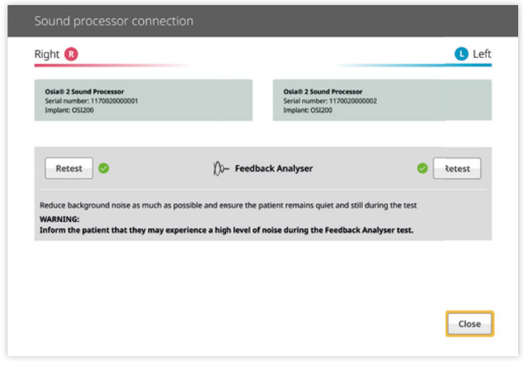


Fig. 11: Feedback Analyser

Connection

Follow-up fitting

- Connect to sound processor (fig. 9)
- Finalize

If using Noahlink Wireless, open and close the sound processor's battery door to put it in connection mode. During **Wireless Detection (fig. 12)** the selector buttons will indicate which side the sound processor has been fitted on previously.

Once connection is finalized, click Next to proceed to the next recommended step in the fitting workflow.

NOTE
When using the Noahlink Wireless to connect, the sound processor cannot be connected with Bluetooth® to another device. Make sure to turn off Bluetooth on any other connected device.

Connection Status

Buttons and indicators for connecting/disconnecting and muting the sound processor are displayed in the bottom menu of the Fitting Software window. (Table 1, fig. 13)

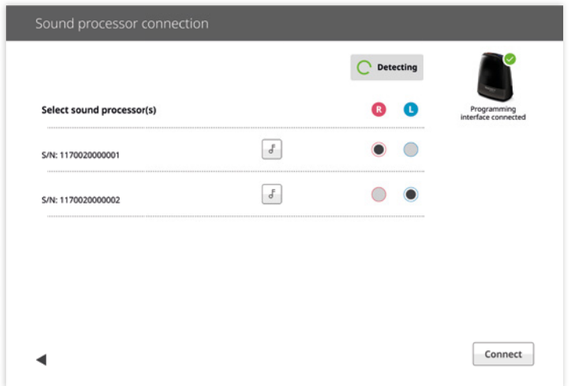


Fig. 12: Wireless Detection

Connection
Connected/Live
Synchronising
Disconnected
Mute
Unmuted/Live
Muted

Table 1: Connection status icons

Fig. 13: Status and navigation

Prescribe

Prescribe is where you set the basis for prescription. In order to apply the appropriate prescription and sound processor settings, these parameters are required before moving to the fitting step.

Audiogram (fig. 14)

Enter the patient audiogram making sure that unmasked BC thresholds are entered if available. Select the type of threshold to activate or modify by selecting the appropriate buttons in the center of the screen. If in Noah mode, make sure that appropriate thresholds (unmasked BC) are entered in the office system prior to launching the OFS.

NOTE
AC thresholds are not used in the prescription calculation.

Entering hearing thresholds

There are three ways to plot the patient's hearing thresholds:

Plot the hearing thresholds in the audiogram by pointing and clicking with a mouse. Thresholds can be entered in 5 dB increments in the graph.

Or: Using the keyboard arrows to move the cursor up and down and between frequencies. The level where you leave to a new frequency will be the marked threshold.

Or: Enter hearing thresholds directly in the table. Thresholds can in this case be entered in 1 dB increments.

To enter a No Response (NR) right-click the threshold point and select No Response from the drop-down list.

Thresholds can be removed or modified by right clicking the value and selecting from the drop-down list.

For SSD, contralateral BC thresholds will be used as a basis for the Cochlear Bone conduction Prescription (CBP) therefore BC hearing thresholds for both ears are needed.

The entered audiogram will be saved automatically when leaving the audiogram screen.

NOTE
Prescription is based on unmasked BC thresholds from the audiogram, but will use masked BC thresholds if unmasked thresholds are unavailable. If some thresholds are missing or listed as No Response, the fitting software will estimate a value based on the adjoining thresholds.

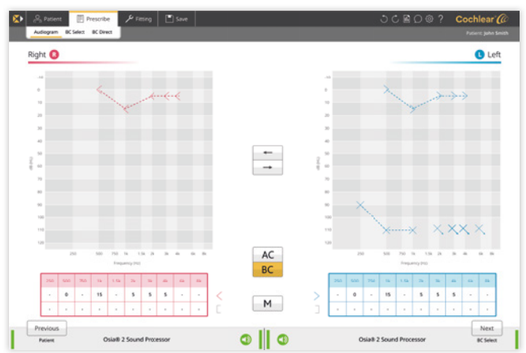


Fig. 14: Audiogram

Right Ear, Left Ear	R	L
Unmasked BC	<	>
Masked BC	[	]
Unmasked AC	○	×
Masked AC	△	□
Unmasked insert phone	⊂	⊃
Masked insert phone	⊏	⊐

Table 2: Audiogram threshold symbols

Prescribe

BC Select (fig. 15)

BC Select is a mandatory step and helps you match the patient's individual profile. Select the choices that best describe your patient. If you have not already connected to a sound processor the connection dialog will open automatically when you enter BC Select.

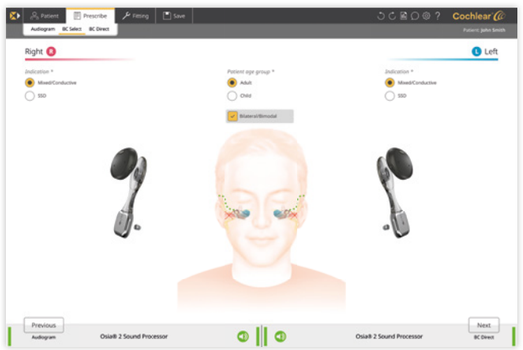


Fig. 15: BC Select

BC Select options and associated presets

A. Patient

Adult: 1 Program, auto directionality. LED indicators OFF.

Child: 1 Program, auto directionality. LED indicators ON.

Bilateral/Bimodal: Includes bilateral summation and reduces overall gain by approximately 3 dB. Should be selected for bilateral Osia fittings as well as when a patient is already fitted with any hearing system on the opposite side (bimodal).

NOTE
In all bilateral fittings the Control Sync will be on by default, independent of this choice, but can be manually switched off.

B. Indication

Mixed/Conductive: bases gain on BC thresholds and BC Direct measurement.

SSD: Uses BC thresholds in the good ear as basis for prescription and compensates for interaural attenuation. If BC Direct values are available, the compensation will be based on the patient's specific attenuation, otherwise, average values will be applied.

NOTE
Your selections will be displayed at the top of the screen, per side, for easy reference.

BC Direct (fig. 16)

BC Direct allows you to measure hearing thresholds directly through the Osia System (in situ). In order to apply the prescription, either Audiogram or BC Direct data is required. The Cochlear Baha Prescription (CBP) will prioritize BC Direct thresholds for mixed/conductive hearing losses, but for SSD both BC Direct and BC Audiogram thresholds will be used to calculate the gain needed. If only one of them is available, average compensation values will be used.

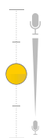
	**Warble & Pure Tone** button
	**Play Tone** button – Click to present a 1.5 sec tone. Click and hold to present a longer tone of maximum 5 sec.
	**Talkback** button
	**Talkback volume slider** – Use this to adjust the Talkback volume.

Table 3: BC Direct controls

To conduct a BC Direct test

1. Enter BC Direct. The sound processor microphones are automatically muted. If you need to communicate with the patient, use the **Talkback** button. Use the slider to adjust the Talkback volume.
2. Click on the audiogram to select the frequency and intensity of the test signal. We suggest testing, as a minimum, the frequencies marked with a triangle; 500, 1k, 2k and 4k Hz.
3. Present a tone to the patient by clicking the **Play Tone** button or by pressing space bar. A tone will be presented through the sound processor for a minimum duration of 1.5 seconds. To extend duration click/press and hold. You may select a warble tone for BC Direct by clicking on the appropriate icon.
4. To change the output levels of the pure tone in steps of 5 dB, use either the up and down arrows on the keyboard or the mouse pointer.
5. The last level presented at each frequency is considered the BC Direct threshold and will be used by the software to apply amplification.

NOTE
This test should be conducted in a quiet room.

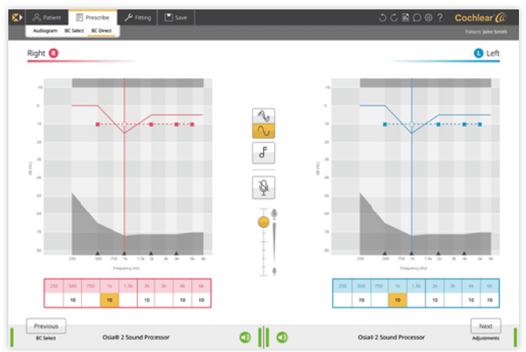


Fig. 16: BC Direct

Fitting

Adjustments

In **Fitting** you find the Adjustments screen. Here you will be able to toggle between the **Hearing Mentor, Fine Tuning** and **Program Settings** screen and view the impact of your modification in the gain graph.

- **Hearing Mentor** – Adjust the gain and output settings based on simple categories.
- **Fine Tuning** – Adjust the gain and output settings for each program.
- **Program Settings** – Adjust features: directionality, noise reduction and feedback reduction.

The gain graph (fig. 17)

The gain graph consists of shaded areas and curves representing the actual system performance and can be modified by the adjustment options listed above.

- The grey shaded area is beyond the output of the Osia System.
- The yellow shaded area is an area where there is a higher risk for feedback. It's possible to fine-tune the gain up into this area, but not recommended.
- If you have performed a Feedback Analyzer test, this will be indicated by the Individual Stable Gain (ISG), a black line under the yellow area. Increasing gain above this point may increase risk for feedback.
- Gain curves for G50 and G80 input levels are visible as red or blue curves respective to the side being programmed. Prescribed gain is shown as thin lines and actual gain is shown as thicker lines.
- By default, G50 and G80 gain curves, "Prescribed gain" limited by First Fit Optimizer (FFO) or ISG and "Actual Gain" curves will be displayed.
- Right clicking on the fitting graphs customizes the display to also show the "Estimated Target" (not limited by FFO or ISG) curves, indicated by dashed lines.

Prescribed Gain – Amplification according to CBP. Limited by First Fit Optimizer (FFO) or Individual Stable Gain (ISG).

Actual Gain – Amplification delivered by the sound processor.

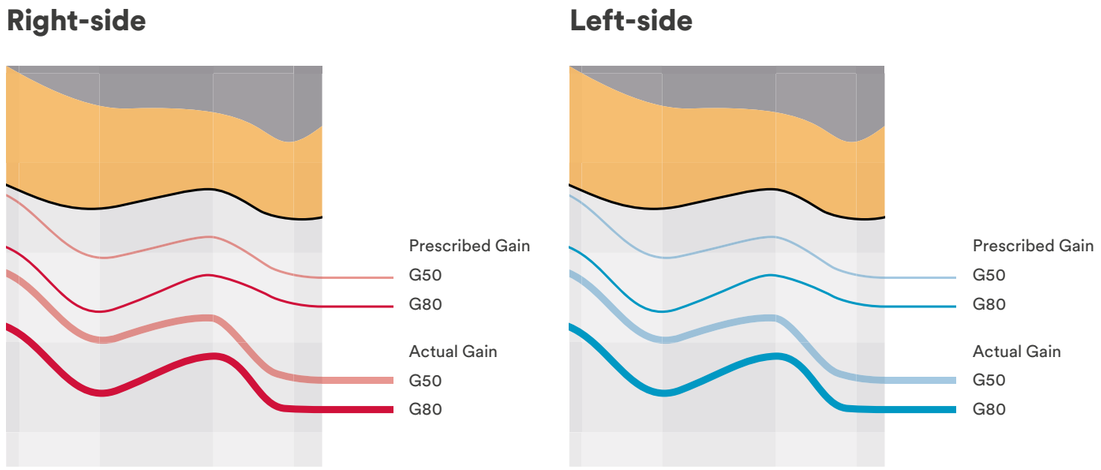


Fig. 17: Gain curves

	Recalculate button recalculates the gain based on specified settings.
1 2	**Program** button click to select a program to work with.
	Control Sync, activated by default for bilateral fittings to allow for correct function of the App and MFi. If there is a need to use different program types per side or a different number of active programs per side Control Sync will give a warning that the App functionality will not be optimal.
	G50 and G80 curve buttons, click to show or hide gain curve.
	Feedback Analyzer button, press button to re-run the Feedback Analyzer test.
	Digital Link Calibration button, press button to re-run the Digital Link Calibration test or to enter the Digital Link Settings screen.
	Gain adjustment buttons to increase or decrease gain (in Fine Tuning).

Table 4: Adjustments controls

Fitting

Hearing Mentor (fig. 18)

Hearing Mentor lets you quickly and easily make overall changes to a sound processor to manage typical patient comments (fig. 19).

- **Loudness** – Increase or decrease to adjust overall loudness of the chosen program in the patient's sound processor.
- **Sound Quality** – For a brighter sound with high-frequency emphasis, increase the setting. For a fuller sound with a flatter frequency response, decrease the setting.
- **Own Voice** – Increase or decrease to make the patient's voice louder or softer.
- **Performance in Noise** – For a greater emphasis on softer high-frequency speech sounds in a noisy environment, increase this setting. For a more comfortable sound with less high-frequency emphasis, decrease this setting.

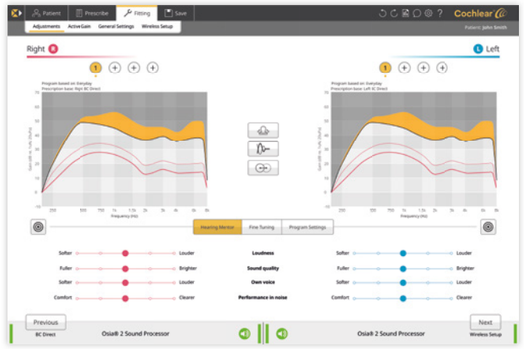


Fig. 18: Adjustments: Hearing Mentor

NOTE
The sliding selector tool will return to the center if any subsequent changes are made in the Fine Tuning settings. The adjustment will create a new default setting for the Hearing Mentor to allow maximum flexibility.

Softer		Loudness		Fuller
All -2	G50 (LF, MF -2)	Default	G50 (LF, MF +2)	All +2
Fuller		Sound quality		Brighter
G50 (HF -2), (MF +2)	G50 (HF -2)	Default	G80 (HF +2), (LF -2) G50 (HF +2)	G80 (HF +2) G50 (HF +2), (MF, LF -2)
Softer		Own voice		Louder
G50 (MF, LF -2)	G50 (LF -2)	Default	G50 (LF +2)	G50 (MF, LF +2)
Comfort		Performance in noise		Clearer
G50 (All -2)	G50 (LF -2)	Default	G50 (HF +2)	G50 (LF -2), (MF, HF +2)

HF = High Frequencies, MF = Mid Frequencies, LF = Low Frequencies. -2/+2 = Decrease/Increase 2 dB steps.

Fig. 19: Hearing Mentor values

Fine Tuning (fig. 20)

Adjusting gain and/or output

To adjust the gain, select the frequency area and level you wish to change, and increase/decrease it using the up/down arrows on the screen. You can select multiple frequency areas and adjust them simultaneously.

Adjust gain for soft sounds (G50), loud sounds (G80) or maximum power output (MPO).

Compression ratio can be viewed in the gain charts and can only be modified by adjusting the G50 or G80 gain. Compression kneepoint is at 65 dB SPL.

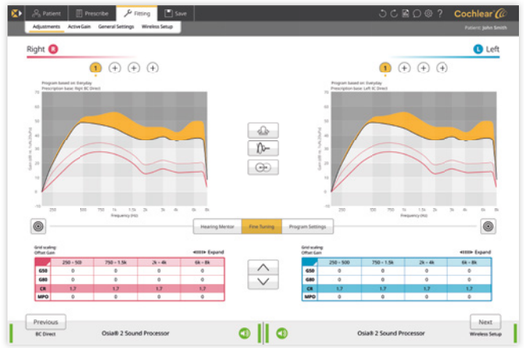


Fig. 20: Adjustments: Fine Tuning

Displayed gain in the gain table

It is possible to change between different views in the gain table at the bottom of the fine tuning screen by right clicking over the table and selecting the desired gain value.

Offset Gain is the default view displayed as offset from the prescribed gain starting at 0. Modification from the offset will be displayed in 1 dB steps. Positive values represent an increased gain and negative values a decreased gain.

Force Gain values can be displayed by a right click in the gain table and adjusted in the same way as the Offset Gain. The session report will only display Force Gain values. The force gain shows how much vibrational force (a logarithmic scale of decibels referenced to pressure output in micro Newtons (dBuN)) that the Osia System is actually delivering in each frequency.

NOTE
Changes made during the programming session are made directly in the sound processor but must be saved (see Save) to be made permanent.

Fitting

Program Settings (fig. 21)

Programs Settings are accessed in the Adjustment screen. Feature settings can be controlled on a per program basis under the Program Settings screen.

Working with programs

- The sound processor will be provided with the Everyday program by default at first fitting.
- Up to 4 preconfigured program types (choose between Everyday, Music, Noise, Outdoor and Aqua+ Underwater) can be activated in the sound processor by clicking on the program buttons at the top of the fitting graph and selecting from the drop down list.
- To disable a program, select **No Program**.
- To copy a program and its settings, simply click a Program button and drag and drop it into the program slot of your choice.
- To make changes across multiple programs select programs by using SHIFT + click to select a row of programs (e.g. 1–3), or CTRL + click to select specific programs (e.g. 1 and 4).

Feedback reduction

- **Off** – Feedback reduction de-activated
- **Moderate** – Less aggressive feedback reduction
- **Strong** – More aggressive feedback reduction

The Dual track feedback reduction adds an inverted face cancellation, and the Dimentional feedback reduction have both Dual track and feedback gain control.

Directionality

- **Omni** – The sound processor operates in an omni directional mode (directional microphone is disabled)
- **Fixed** – Directional microphone is always on
- **Auto** – The sound processor adapts the directional microphone automatically depending on the sound environment defined by the Scene Classifier II

Noise reduction

- **Off** – Noise reduction is deactivated
- **Fixed** – Noise reduction activated
- **Auto** – The sound processor adapts the noise reduction automatically depending on the environment defined by the Scene Classifier II

Noise reduction level

- **Mild** – Small amount of reduction
- **Moderate** – Standard reduction
- **Strong** – Most noise reduction

Program	Feedback reduction	Directionality	Noise reduction	Noise reduction level*
Everyday	Strong	Auto	Auto	Moderate/Strong
Noise	Strong	Auto	Auto	Strong/Strong
Music	Moderate	Omni	Off	Off
Outdoor	Strong	Omni	Auto	Moderate/Strong
Aqua+ Underwater	Moderate	Auto	Fixed	Moderate

Table 5: Default program settings

* conductive mixed HL/SSD

Fig. 21: Adjustments: Program Settings

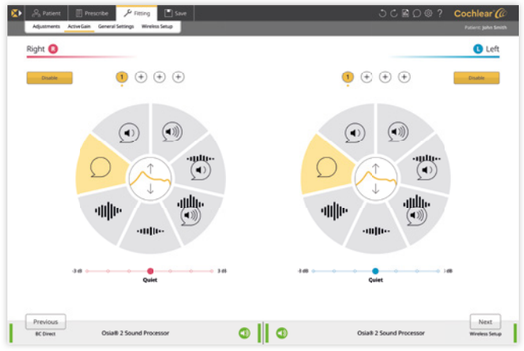


Fig. 22: Active Gain

Active Gain (fig. 22)

The Active Gain screen allows clinicians to customize the overall gain for each of the Scene Classifier II environments, to further improve speech intelligibility and listening comfort for the patient.

Active Gain is enabled by default in the Everyday program, and can be modified or disabled if the patient already has a maximized stable gain (close to risk of feedback/yellow area) or is experiencing feedback when using the volume control. Active Gain can be enabled for other program types.

This is an advanced fine-tuning option. The predefined offsets in the Active Gain provide a good setting for the majority of patient fittings.

Adjusting the gain in an environment

1. Select the program or linked programs you wish to modify
2. Select the sound environment from the Scene Classifier wheel you wish to modify
3. Move the slider at bottom depending on your patient's need. Adjustments can be made to a maximum of -3 and +3 dB from the offset.

Fitting

General Settings (fig. 23)

General Settings lets you adjust sound processor specific settings. You can activate volume indicator tones, low battery warning tones or make other adjustments based on patient preference.

Mic Relative Wireless Setting

This feature allows you to adjust the wireless accessory in relation to the sound processor microphone.

-6 – The wireless accessory is set 6 dB higher than the microphone signals which equate to a 75% mixing ratio.

0 (default) – Microphone and wireless accessory are balanced equally i.e. 50% mixing ratio.

Off – Turns off sound processor microphones. Signal comes entirely from the wireless accessory.

Low battery warning tones

On – The low battery warning is active.

Off – The low battery warning is inactive.

Volume indicator tones.

On – Volume tone indicator will be audible.

Off – Volume tone indicator will not be audible.

Visual indicators

On – The yellow LED signals will give indications on change of program and low battery.

OFF – The yellow LED signals will not give indications.

General Beep Volume

Soft – Tone volume is on the same level as the ambient sound level.

Normal – Tone level is +6 dB compared to the ambient sound level (default setting).

Loud – Tone level is +12 dB compared to the ambient sound level.

General Tone Frequency

Low – All indication signals will be on a lower frequency.

Moderate – All indication signals will be on a moderate frequency.

High – All indication signals will be on a high frequency.

Start-up delay tones

On – Five tones during five seconds will be given to the patient at start-up.

Off – No tones will be given to the patient at start-up.

Test tones

Test the different sound indicators given to the patient through the Sound Processor to use for counselling on sound indicators. Choose between:

- Program 1, 2, 3 or 4 (number of tones)
- Volume change
- Mute
- Low Battery Warning
- Sound Processor On
- Streaming enabled
- Flight mode

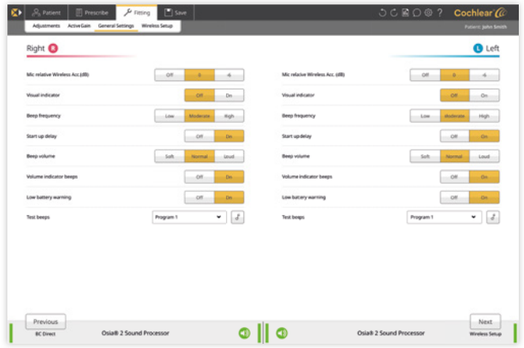


Fig. 23: General Settings

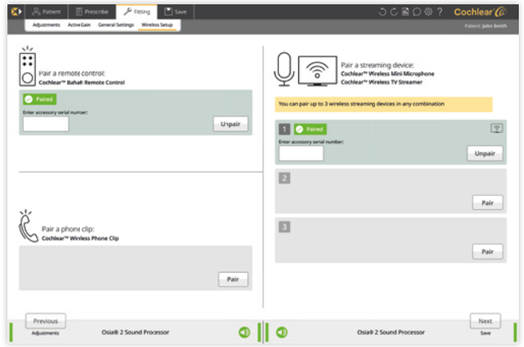


Fig. 24: Wireless Setup

Visit **www.cochlear.com** to learn about our full range of apps and wireless accessories.

Wireless Setup (fig. 24)

Osia 2 and 2(I) Sound Processors allow access to 2.4 GHz wireless technology.* One Baha Remote Control, one Phone Clip and up to three streaming devices (Mini Microphones or TV Streamers) can be paired to each sound processor. All accessories can be paired bilaterally.

To pair a wireless accessory

Click the button for the accessory that you would like to pair. A dialogue box appears instructing you to turn on the accessory, then press the **Pairing** button on the accessory. The button on the screen will turn yellow to indicate a successful pairing. You have the option to enter the serial number of the paired accessory; this information will appear in the session report and will be saved in sound processor settings.

Wireless streaming and control through compatible iOS or Apple devices

Osia 2 and 2(I) Sound Processors are compatible with Apple products with Made for iPhone and Bluetooth® technology. These technologies allow patients to stream sound from their phone directly to the sound processor.

Access to the Osia Smart App

The Osia Smart App is available to support patients and help improve the hearing experience.

* Cochlear Wireless Accessories utilizing 2.4 GHz wireless technology:

Cochlear Wireless TV Streamer
Cochlear Wireless Phone Clip
Cochlear Wireless Mini Microphone 2
Cochlear Wireless Mini Microphoone 2+

Save

Saving the programming session (fig. 25)

Save will allow you to review the settings and provide you with the following options:

- Save to sound processor and/or file system
- Reset or continue data logging
- Review and/or print session report

Save to sound processor and/or file system

To make the changes made to the sound processor apply it is necessary to save the session to the sound processor.

To keep a clinic version of the Noah file from the session it is necessary to save to file.

Data logging information

By default, data logging is set to continue, and settings are saved to both the sound processor and file system. Modify default settings by checking or unchecking the desired option. If reset datalogging is checked, the datalogging will count from the current session date.

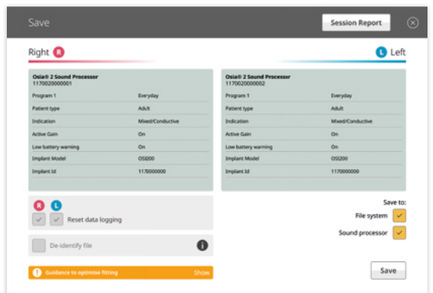


Fig. 25: Save

Session Report

Once saving is complete, you can select to view or print a session report containing the patient data, BC Direct thresholds, settings, wireless accessories (if applicable) and sound processor handling guidance.

NOTE

At the end of the fitting session, we advise you to remove and reinsert a fresh battery to reset the sound processor.

Register

In this screen you will also find a link to MyCochlear™ portal where device registrations can be completed (MyCochlear is not available in all markets).

Other features

Data Logging (fig. 26)

Data logging tracks how the patient has used the processor over a given period, such as since the last programming session or a session when the data logging was reset. This information can help the patient by allowing the clinician to track usage patterns and make adjustments to the sound processor. Access data logging at any point during a fitting by clicking on the **data logging icon** on the right in the main menu. Enable viewing of the data logging by selecting **Enable**. **Disable** turns off viewing of the data logging in the OFS, but does not turn off collection of data logs in the processor.

Depending on the patient's description, the data logging information may be of use to understand in which environments the patient experiences issues with the sound processor programming. Understanding this may help you to adjust accordingly to meet the patient's needs. By default, data logging is enabled. Sound processor data can be displayed as a Usage overview, by Program, and by Scene Classifier.

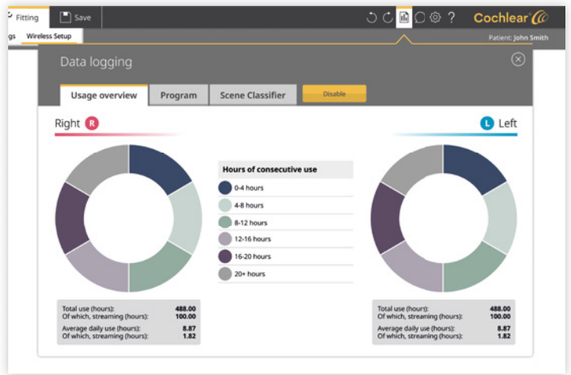


Fig. 26: Data Logging

Usage Overview

View consecutive sound processor use in blocks of 0–4 h, 4–8 h, 8–12 h, 12–16 h, 16–20 h and more than 20 hours, as a proportion of total use.

In usage overview screen, the software indicates:

- Total hours of use
  - and of which total hours of streaming
- Average daily use
  - and of which average daily streaming

Program

View the patient's use of programs and volume control (if applicable). Programs can be viewed as a percentage of total use (Overview) or per Scene Classifier scene (Detail).

Scene Classifier II

The Scene Classifier logs seven different environments: Quiet, Soft Speech, Loud Speech, Speech in Soft Noise, Speech in Loud Noise, Soft Noise and Loud Noise. Scene Classifier scenes can be viewed as a percentage of total use (Overview) or per Program (Detail). Data logging will indicate time spent in each environment in percentage of use since the last reset.

NOTE

Volume changes made by the wireless accessory or app are only logged in Program 1 and are not visible in any other program.

NOTE

When ending a streaming session, the sound processor must be kept on for five minutes for data logging to be saved to the device memory and later read in the OFS.

Other features

Digital Link Settings

The Digital Link Settings are accessible when using the Hi-Pro 2. The described features are not applicable for the OSI100 implant.

For **OSI200 Version 1.0**: Access to adjust the Audio Signal Offset and the Low-pass Filter. These features are used for fine tuning clarity of sound and low-level noise as needed.

For **OSI200 Version 2.0** and **OSI300**: Access to adjust the Low-pass Filter and turn on System Noise Manager. These features are used for fine tuning low-level noise as needed. When the System Noise Manager is activated it is recommended to redo BC Direct and the Feedback Analyzer measurement.

NOTE
Adding only the Low-pass Filter will increase battery consumption.

Settings panel

About (fig. 27)

View software version and regulatory information, as well as information about connected sound processors.

Set up replacement sound processor

Set up replacement sound processor can be found in the Activity Screen (fig. 28) options at the start of the connection process. This feature will clone a previous fitted device direct from a Noah file. To set up a replacement sound processor you need to have the Noah file from the sound processor or fitting you would like to write to the new sound processor open in the OFS. This feature will not be enabled without the open file and it requires a wired interface. There is no need for the patient to be present to set up a replacement sound processor.

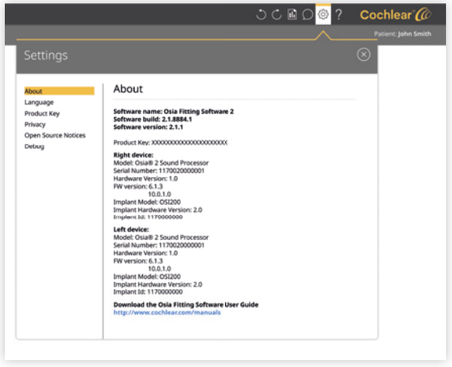


Fig. 27: Settings: About

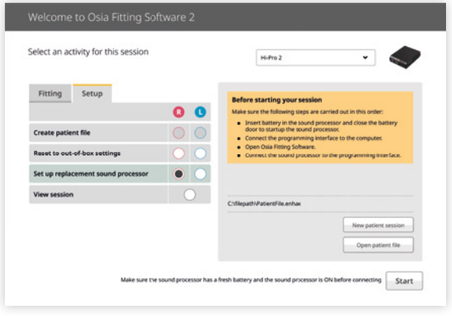


Fig. 28: Activity

Reset to factory settings

The Reset to Factory Settings tool can be used to reset a device previously fitted for a different patient or to upgrade the firmware in a Osia 2 or 2(I) Sound Processor. You may start a Reset to Factory Settings in the Activity Screen.

The tool will:

- Reset the sound processor to Factory Settings (remove associated implant information as well as all information from previous fittings).
- Install the latest firmware in Osia 2 Sound Processors.

NOTE
The Factory Reset can only be performed on a wired interface using the Hi-Pro 2.

How to use the tool

1. Enter the Activity Screen using the connect/disconnect button in the lower corner of the screen.
2. Choose the correct interface.
3. Remove the sound processor from the patient's head.
4. Select side and click Start. Note that it is only possible to reset one side at a time.
5. Once the process starts the sound processor connection status bar will display a disconnected status (red). The process cannot be interrupted and it will reset one sound processor at a time.
6. The software will confirm if the reset passed or failed.

NOTE
Implant association, Digital Link Calibration, wireless pairing, data logging, and Feedback Analyzer result (ISG) will be lost during reset since this information is only saved in the sound processor settings. These settings will have to be remeasured when continuing with the fitting session after the reset.

NOTE
Only wired connections possible. The sound processor must not be disconnected from the cable during the operation.

NOTE
The operation can take between 3–10 minutes per sound processor

After a successful reset

7. Return to the Activity Screen
8. To restore earlier settings:
   Import the patient file you would like to restore settings from. Select First Fitting, click Start and follow instructions with the session that was selected prior to resetting.

After an unsuccessful reset

9. Return to the Activity Screen and start a Follow-Up session.
   a) If connecting successfully – the session can continue with selected settings and same firmware as before the reset was started.
   b) If unable to connect – please return the sound processor to Cochlear service and repair for investigation.

Hear now. And always

Cochlear is dedicated to helping people with moderate to profound hearing loss experience a world full of hearing. As the global leader in implantable hearing solutions, we have provided more than 700,000 devices and helped people of all ages to hear and connect with life's opportunities.

We aim to give people the best lifelong hearing experience and access to next generation technologies. We collaborate with leading clinical, research and support networks to advance hearing science and improve care.

That's why more people choose Cochlear than any other hearing implant company.

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