Connexx

Version 9.3 and higher

User manual

Content

Important information

Intended use

The fitting Software Connexx is a tool intended to adjust programmable hearing aids according to the needs of people with hearing loss. The fitting must be performed by a hearing health specialist, e.g. audiologists, acousticians or ENT doctors.

Read and follow the instructions of this user guide to avoid injuries to the patient or damage to the hearing instruments.

Personal safety

WARNING

Risk of impairing a client's residual hearing

Remote fitting should only be used for people who are fully able to answer questions concerning their hearing correctly. Therefore, remote fitting is not suitable for children under the age of 12 years or people with a learning disability.

When fitting hearing instruments via remote session:

- Verify if you are connected with the right client.
  Example: Ask for the client's name and date of birth or start a video communication.
- Verify that the correct hearing instruments are used.
- Instruct your client to wear the hearing instruments correctly.

NOTICE

To avoid the loss of confidential patient data:

- Protect the system with security software, e.g. anti-virus software and firewalls.
- Keep the system and security software up to date. Install all software updates that are recommended for your system.
- Never leave an unsecured system unattended. Passcode protect the system and enable the screen lock feature to activate after a few minutes of inactivity.
- Do not connect unknown mass storage devices like USB sticks or external hard drives.
- Do not allow your system to connect to unknown wireless networks. These networks could be rogue access points that capture information passed between your system and a legitimate server.

Data privacy is an important element in looking after your patient's personal information. We care about our customers and would therefore like to offer our support in helping you protect your working environment from data loss or inappropriate access to patient data. Remember, as the data controller, it is your responsibility to comply with all local privacy laws, so this means ensuring only your authorized staff are able to use the Connexx software. If you need any help in protecting your environment, please do not hesitate to contact our data protection officer, who will be glad to assist you further.

Recommended System Requirements

Operating System	Windows 10 with latest updates
Display	1920*1080
HW platform	Intel Core i5 (or similar compatible processor)
Free Hard Disk Space	free HD space > 10 GB
RAM	4 GB
USB interface	USB 2.0 or higher
Noah Version	Noah 4 (latest version)

Explanation of symbols

Symbols on the device or packaging

CE 0123	CE compliance label, confirms compliance with certain European Directives, refer to section „Conformance information“.
MD	Medical device

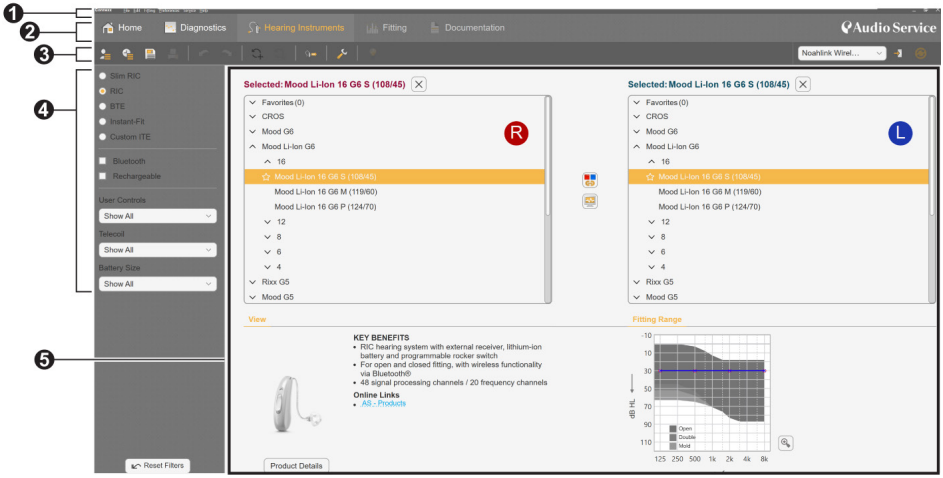
Conformance information

The CE mark indicates conformity with the European Regulation (EU) 2017/745 concerning medical devices.

CE 0123

Getting started in Connexx

Screen layout



❶ Menu: Offers access to all functions.

❷ Workflow pages: Easy access to single workflow steps.

❸ Toolbar: Is customizable to reflect the preferred functions (menu **Preferences > Edit User Preferences > General**).

❹ Filter function: Enables the selection of hearing instruments according to certain filter criteria.

❺ Work area: Offers functions for the current workflow step.

Online user guide

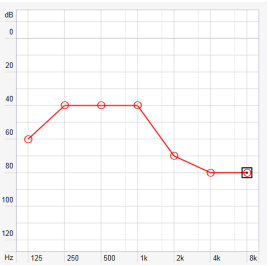
This user guide is also available as a PDF document (menu **Help > Electronic User Guide**).

Client data and audiograms

How you enter client data and audiograms depends on whether you start Connexx in standalone mode or via an independent database (e.g. NOAH).

Standalone mode

When you start Connexx in standalone mode, enter client data and audiogram manually:



- On the portal page  , click  and select a client or enter a new client profile.
- Load the client and proceed to the workflow page **Audiogram**.
- To enter the audiometric data, double-click on each value across the frequencies.
- Proceed to the workflow page **Hearing Instruments**.

Via independent database

When you start Connexx via an independent database, the client's profile and audiometric data are automatically loaded. The audiogram is not editable in Connexx.

Proceed to the workflow page **Hearing Instruments**.

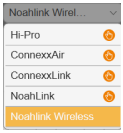
Fitting workflow

Simulation

Without having hearing instruments connected:

- On the workflow page **Hearing Instruments**, select hearing instruments, check the fitting range and simulate a fitting by clicking  .

Hearing instrument selection and detection



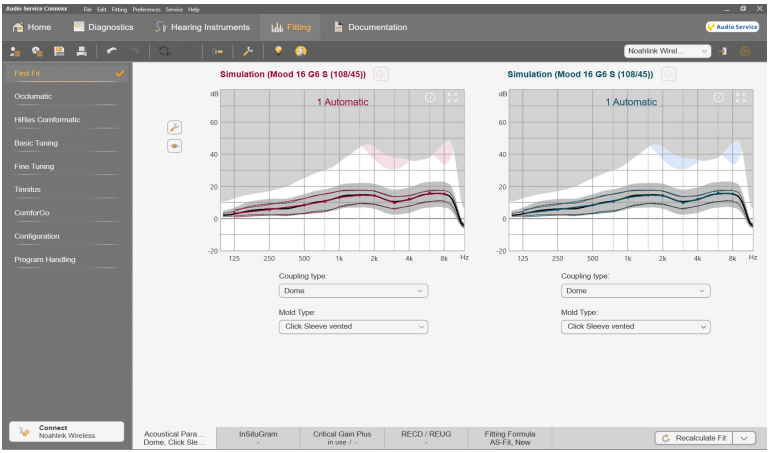
- Connect hearing instruments to the computer.
- If you use more than one programming device, select the programming device in the quick access area on the upper right.
- Click  to detect the connected hearing instruments.
- For **wireless** fitting: Assign the detected hearing instruments to left or right side.

When programming wirelessly:
During the fitting process, the fitter is prompted to assign the serial number of a connected hearing instrument to left or right side (serial numbers are printed on the housing or inside the battery compartment). The software displays the assignment of the side based on the selected serial number.

To ensure that the correct hearing instrument is selected, a detection beep can be played.

- For **wired** fitting: The connected hearing instruments are displayed.
- Select **New fitting** and proceed to the workflow page **Fitting**, starting with the workflow step **First Fit**.

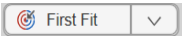
First Fit



CAUTION

A high SPL output can be harmful for children‘s ears!

- Prior to direct evaluation of the hearing aid on the child, the hearing aid should be preset and tested in a hearing aid test box or real ear simulator. Use the child’s RECD to verify that specified targets are met.

- At the bottom of the workflow page **Fitting**, navigate through the tabs. Check and modify the proposed settings. For example, select the fitting strategy (e.g. AS-Fit, NAL-NL2, ...).
- To maximize feedback stability, an individual critical gain measurement (CGM) should always be run, because even when an individual CGM is not performed, an average critical gain curve is used in the background when calculating the targets.
- Once you are sure that everything is set to the client's needs, click 

to perform a First Fit.

- General preferences for the First Fit: menu **Preferences > Edit User Preferences > First Fit**.
- The critical gain measurement can also be carried out outside the First Fit context (menu **Fitting > Critical Gain Measurement**).

Basic Tuning

On the workflow page **Fitting**, in workflow step **Basic Tuning**, adjust gain and loudness for, for example, loud sounds, medium sounds, soft sounds, speech, or adjust the sound quality (softer / sharper).

Fine Tuning

On the workflow page **Fitting**, in workflow step **Fine Tuning**, use the different tools in the work area to access, for example, the following functions:

- Amplification
- Noise Reduction / Microphone
- Bandwidth Features
- Measurements Settings
- Fitting Assistant
- Audio Streaming / Bluetooth

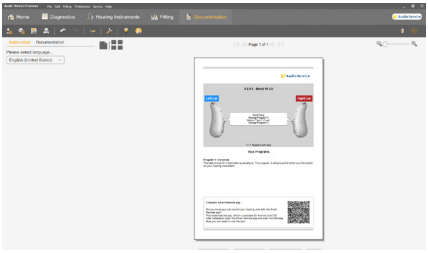
More information on several functions in the software is available via tooltips. To display a tooltip, move the mouse cursor over the respective control.

Documentation

Provides an overview of hearing instrument configuration, fitting parameters and listening program configurations.

- An individual fitting report can be configured for the selected client. The report can be opened and saved as a PDF, directly be sent via email or can be printed.

  Under menu **Preferences > Edit User Preferences > Print & Report**, an individual logo or business card can be uploaded for use in the printout.



Additional settings

Volume control settings

On the workflow page **Fitting**, workflow step **Configuration > Instrument**, you can read the current volume level, set the volume control level of the hearing instrument when it is switched on, and set the range of the volume control.

Full-on-gain settings

For test-box measurements you can temporarily set the hearing instrument's output level to full-on-gain.

Note that high levels can be harmful to your client's ear.

- Ensure that the hearing instrument is **not** in wearing position.
- Open a dialog box with test settings (menu **Fitting > Test Settings**).
- Click the icon 

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  The system warns you about high output levels.
- Read and follow the warning message.

  When you confirm the warning message, the output level is set to full-on-gain.
- To quit this setting, click the icon 

again.

InSituGram specific restriction of output level

The output level is by default restricted to 100 dB HL.

You can deactivate this restriction under menu **Preferences > Edit User Preferences > Audiogram > InsituGram Specific Settings** in section **Restriction Of Output Level**.

Safety Limiter

The safety limiter restricts, by default, the output sound pressure level (OSPL) to 6 dB above the MPO. We do not recommend to change this setting. But if necessary, you can change the dB-value (menu **Fitting > Safety Limiter**).

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