For professionals

Beltone Solus Max™

Developed for your expertise and care

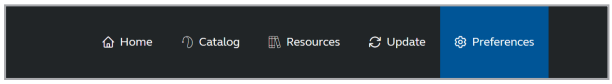
Fitting Flow



Beltone™

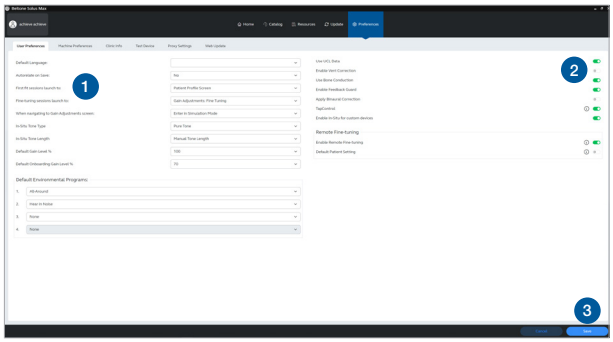
Great first fit experience

A great fitting experience is a combination of a good foundation and customisation. Beltone Solus Max™ provides you with the ability to set the basis of your fitting by changing default settings with preferences. Starting your fitting with preselected defaults and experience levels can save time within a fitting session. Once the base fitting is done you can make additional changes to tailor the fitting to your client's unique needs.



Preset settings in Beltone Solus Max

You can access the preference menu of the Beltone Solus Max fitting software in the "Preferences" tab of the Home screen.



1 Set "First fit sessions launch" to Patient Profile Screen

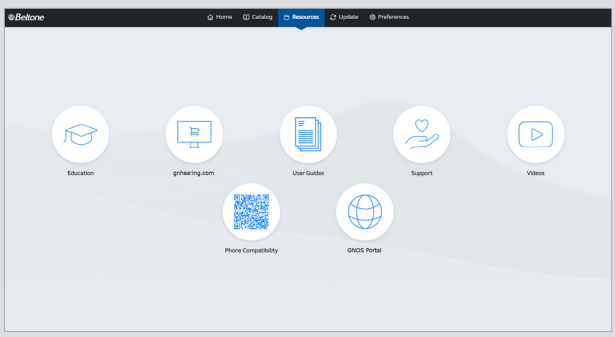
Starting on this page allows customisations to the initial fit based on previous hearing aid experience and tolerance for amplification.

2 "Vent Correction" view by default

The Vent Correction view is a simulation of the vent effect of the selected earpiece from the Physical Properties screen. Selecting ON will result in the display of the low frequency loss with an open or semi open earpiece. This can help determine the appropriate earpiece needed to meet target. Selecting OFF will display the hearing aid amplification regardless of earpiece.



3 Remember to **Save** changes before exiting the tab. Changes will take place upon re-launching the software.

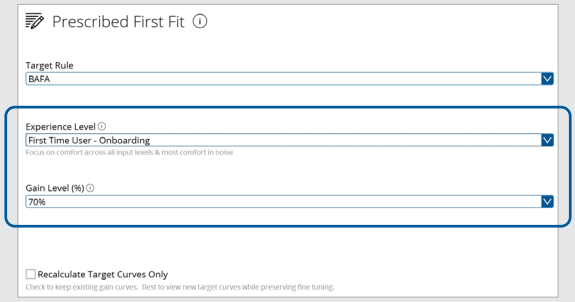


Easy access to resources

Always up to date: Navigate to "Resources" in Beltone Solus Max and get access to a variety of e-learning modules, webinars, videos and other technical documents.

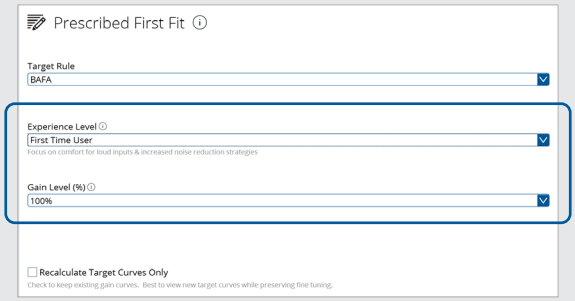
Initial fit set up with **Prescribed First Fit**

The initial settings for the gain prescriptions appear in the upper left corner of the Patient Profile screen. Select the desired fitting rule and customise by setting the Experience Level and Gain Level % based on the client's previous hearing aid experience and acceptance. Experience levels will set gain targets, and noise reduction features accordingly.



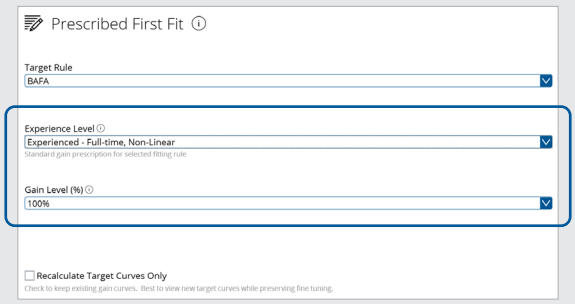
First Time User – Onboarding

This profile is designed as a solution for clients who are new to sound amplification and need to prioritise comfort and acceptance. The prescribed gain is set to 70% of First Time User targets by default. The experience level should then be increased after an adaptation period.



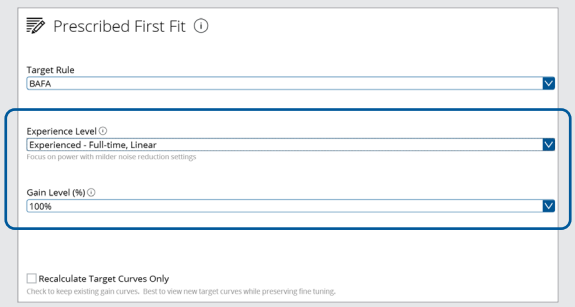
First Time User

This profile is designed for users who are new to hearing aids and require comfort in loud or noisy environments.



Experienced Non-Linear

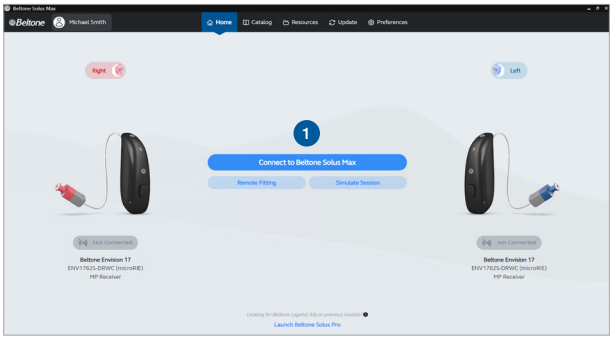
This profile is for previous users or those accepting of full prescriptive targets. After an adaptation period, the client should be set to this profile if not already done.



Experienced Linear

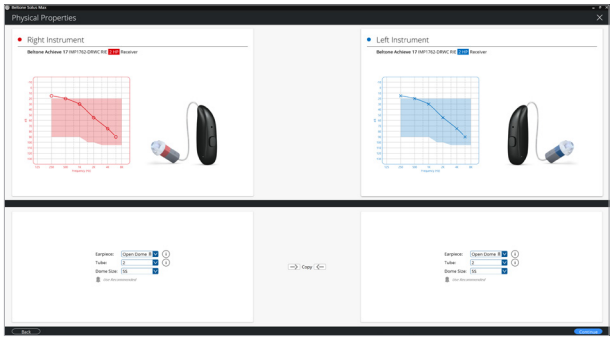
This profile is designed for clients with previous experience wearing linear amplification as it provides little compression across sound input levels.

Hearing aid **connection flow**

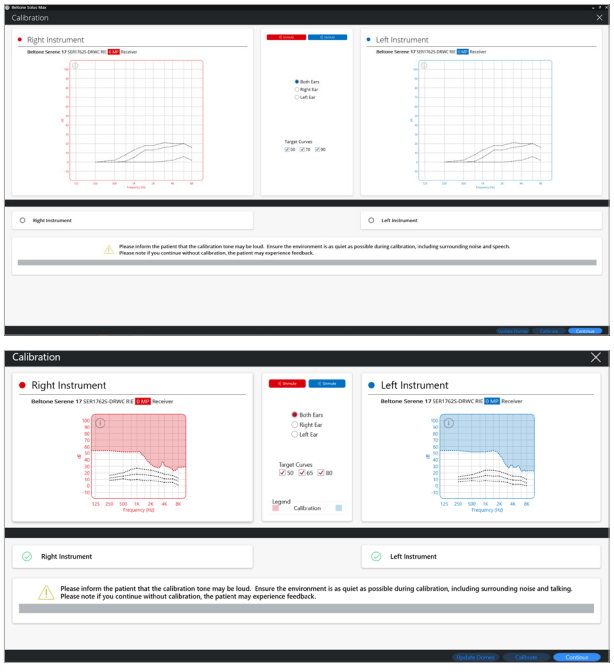


1 **Connect** the hearing aids by clicking on Connect in the Home screen. On the Assignment screen, identify and assign the devices from the center list by pressing the button on the hearing aid, or clicking Assign to right or left.

Note: Beltone SureFit 3 receivers will automatically select the receiver side, power and length.



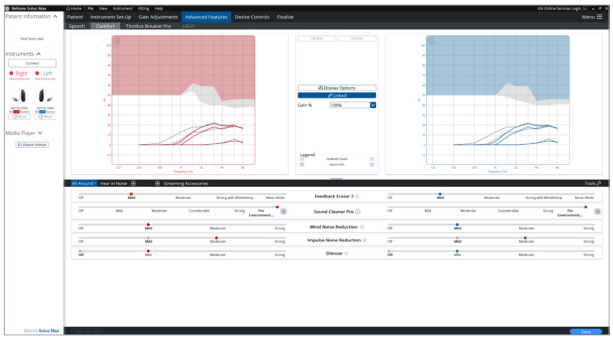
2 Select the earpieces fitted to the devices. The grey recommendation badge is provided to suggest an earpiece based on audiogram.



3 To ensure a fitting without feedback, feedback calibration should be performed for every fitting. Feedback calibration is an in-situ measurement of the device in the client's ear which takes the unique parameters of the client's hearing aid and ear into account. A deeper feedback curve indicates a more open fitting, thus the feedback prevention system will be working harder.

Note: Feedback calibration is required before saving for devices fitted with the Microphone & Receiver-In-Ear (M&RIE) receiver.

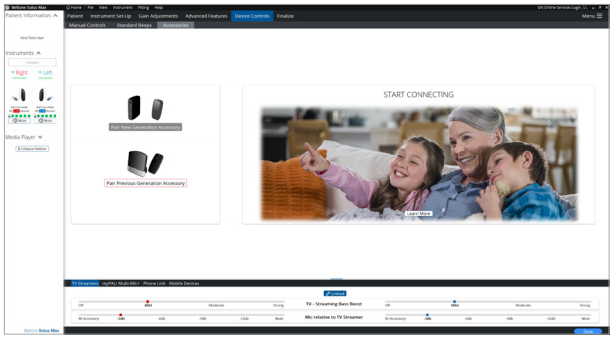
Advanced features and accessories



4 Advanced features

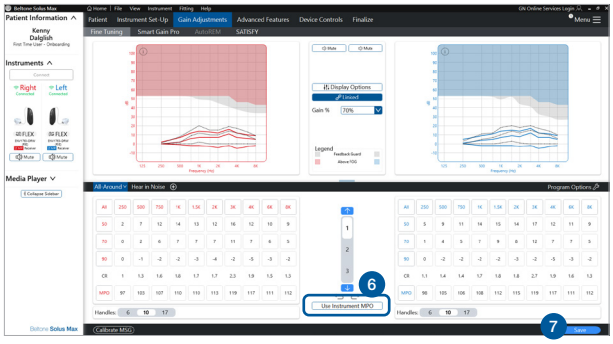
Features which provide better access to speech are found within the Speech tab. The Comfort tab contains primarily noise reduction features as well as feedback management. Other features, such as Tinnitus Breaker Pro (TBP), can be found as their own unique tabs.

Note: The hearing loss thresholds, feedback calibration, hearing aid style, and selected experience level guide the default settings for some advanced features.



5 The Device Controls menu tabs contain device hardware setup options including button configuration, beep notifications, and wireless accessory management. Within the Accessories page, you can pair with the new TV-Streamer+ and Multi-Mic+ as well as previous generation accessories. Features associated with the accessories and mobile device streaming can be adjusted here as well.

Note: Beltone wireless accessories can also be paired to the hearing aids outside of Beltone Solus Max. All paired accessories and Bluetooth® devices will appear within the Accessories tab once the hearing aids are connected.



6 For wearers without loudness sensitivity and those that have a music program, consider using Instrument MPO to avoid distortion and providing the largest possible dynamic range.



7 Click **Save** to complete the fitting.

Additional **information**

Beltone Adaptive Fitting Algorithm: The Beltone fitting rule

The BAFA (Beltone Adaptive Fitting Algorithm) target calculation is based on the basic idea of loudness normalisation. To achieve loudness normalisation, a frequency and input level dependent amplification is applied, so that hearing aid users perceive the loudness of narrowband signals in a similar way to a person whose natural hearing dynamics are not restricted.

Hearing aid users generally tend to prefer less amplification than the basic principle of loudness normalisation would predict (Smeds, 2006; Keidser & Grant, 2003). For this reason, BAFA calculates less amplification than a strict principle of loudness normalisation would require.

Compared to the generic fitting rule NAL-NL2, which aims to maximise speech intelligibility, BAFA calculates 3 to 10 dB less insertion gain depending on the frequency and hearing loss.

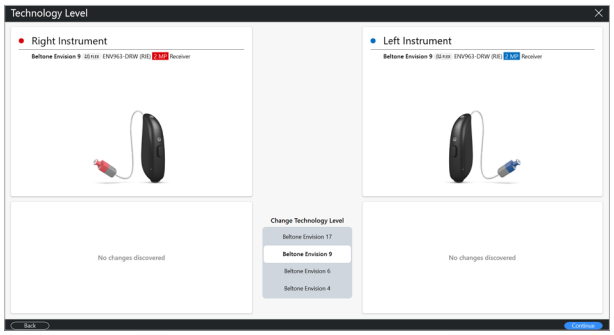
Less listening effort with M&RIE

Each listener uses unique cues as sound travels through the environment. M&RIE gives the hearing aid wearer access to these natural cues again. The microphone positioned in the ear canal allows the hearing aid to access sound in a very individual way – reflected by the user's own ear and head anatomy. This not only makes the hearing aid sound more natural, but also provides better localisation cues. Hearing aid users can better orient themselves in space and differentiate between different sound sources. The M&RIE microphone is protected by the outer ear, and as a result, wind noise is reduced by up to 22 dB compared to omnidirectional microphone transmission*.

When considering fitting M&RIE, remember the receiver is slightly larger than the LP and MP due to the additional microphone and should be fitted with a more closed fitting. The M&RIE receiver was developed with BAFA and it's therefore the recommended fitting rule for use with M&RIE.

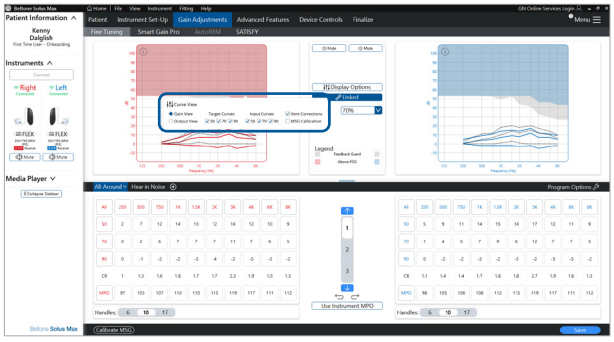
Show all the options

Support your counseling with flexible demo devices, that can be changed in the software with just 2 clicks**. This allows you to showcase different technology levels to clients and let them hear the difference. Flexible demo devices are available for Beltone Envision™ and Beltone Commence™ (microRIE, miniRIE, RIE312 and RIE13 styles). Let your clients make an informed choice while letting them try all the great features and benefits that can improve their hearing experiences.



*Schumacher (2023); Newall et al. (2023)
**GN Proprietary data on file

Display Options

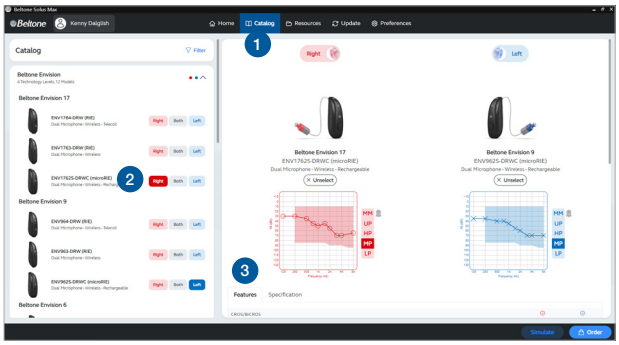


Display Options contains the Vent Correction and Output View. Both displays can be valuable in a fitting.
Output View displays the Max Power Output (MPO) curve. If the MPO and gain curves are compressed together, consider increasing the MPO or change to a higher power receiver. If adjustments were made to low frequency gain and are not audible to the client or are not visible on real ear verification, select Vent Correction View to assist in evaluating the current earpiece selection. If the gain curves are significantly below target, consider a more occluding earpiece.

Compare across technology levels

The catalogue feature has become even smarter in Beltone Solus Max. Now, you can not only look up and check all our hearing aid models, but you can also compare the different devices across technology levels.

Compare hearing aid features on different technology levels for better counselling or look up the individual hearing loss for the optimal device choice.



1. **Go to** “Catalog” and browse through all hearing aid models or use the filter.
2. **Click** “Right” on the selected hearing aid/technology level and “Left” on the hearing aid you would like to compare with.
3. **Explore** the different features.



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