



unitron™

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Unitron TrueFit Software



Introduction

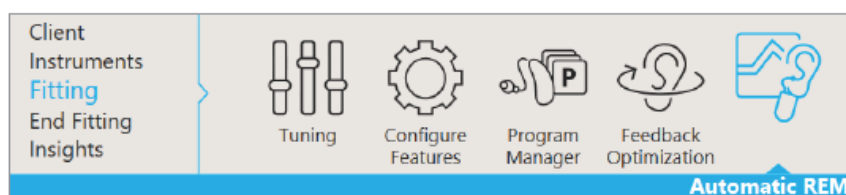
Automatic REM automates the process of incorporating Real Ear Measurements (REM) into the fitting process. The solution provides seamless, step by step workflows that guide the user through the various steps of Real Ear Measurements and matching to targets from within the Unitron TrueFit™ fitting software. This creates an easy and effective way of incorporating Real Ear Measurement into the fitting process.

The fitting software will automatically identify the correct workflow based on the measurement system installed. For additional details on the REM systems supported, programming and fitting Unitron hearing instruments, please refer to the Unitron TrueFit user guide.

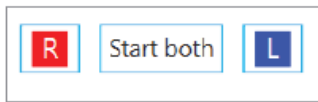
Automatic REM workflow

Automatic REM can be accessed via the Fitting tab. It is accessible within Unitron TrueFit™ fitting software when running Noah and connected to a compatible system. If there are Automatic REM results from a previous session, they will be visible regardless of connection status.

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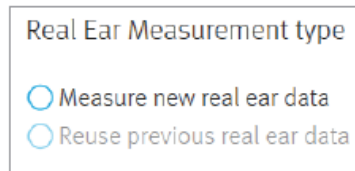


The workflow can be run for either Left or Right or both ears. Click R / Start both / L to start Automatic REM.

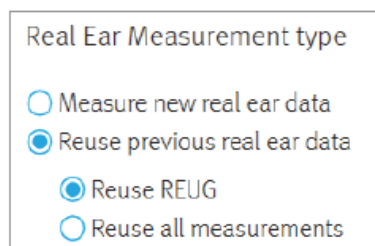


Preparation – configuration

While running Automatic REM for the first time, the only option is to select Measure new real ear data. The software will guide you through the steps to calibrate the probe tube, measure the REUG, Acoustic coupling, REOG, and MLE (Microphone Location Effect).



For a follow-up session with Automatic REM, you have the option to repeat measurements for either or both ears. Select Reuse previous real ear data and then one of the following two options:

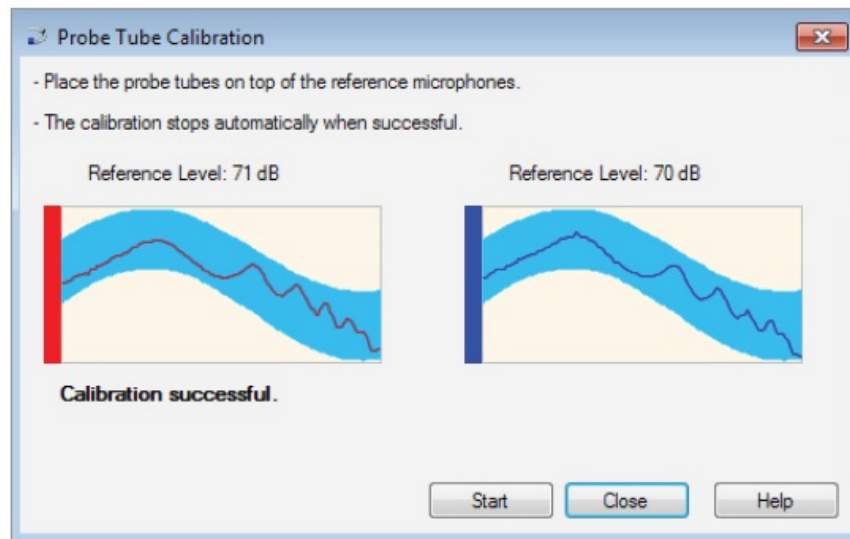


- Reuse REUG measurements and run the workflow from the acoustic coupling and REOG
- Reuse all measurements to re-run only the automatic match portion of the workflow

Note: If the Automatic REM is being run when the Automatic Adaptation Manager is not yet at 100%, the percentage will be set to 100% for the duration of the Automatic REM workflow. In addition, the app equalizer values will be set to zero for the duration of the workflow. Both will be returned to their original values on completion of the workflow.

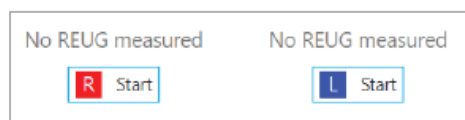
Preparation – probe tube calibration

Follow the on-screen instructions to calibrate the probe tubes. Click Close to proceed.



REUG measurement

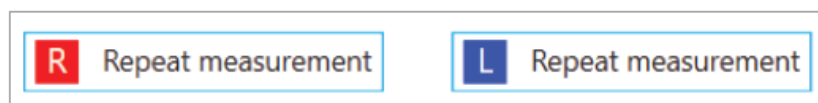
Follow the on-screen REUG preparation instructions then click R Start / L Start to start the REUG measurement.



Place the probe tip close to the eardrum and then press Start.

When the results of the REUG measurement are displayed, a green check mark indicates that the measurements were completed successfully.

If there were any issues encountered with the measurements, a warning icon will be shown with a brief status message. The user then has the option to repeat the measurement if needed.



Real Ear Measurements: acoustic coupling, REOG, and MLE

Follow the preparation instructions:

Acoustic coupling & REOG preparation

- ! Ensure that
 - The hearing aids are now inserted
 - The probe tubes are inserted and properly positioned
 - Hearing aids are connected to the fitting device
- i Instructions to the client
 - Be quiet during measurement
 - Look at the screen or the front loudspeaker
 - Do not turn the head while sounds are playing

Note: Please make sure that the probe tube position doesn't change while inserting the hearing instrument(s).

Click Measure to perform the acoustic coupling, REOG, and MLE measurements.

In the summary of the results, a status indication in bold with a warning or an error symbol indicates an issue occurred during one or more of the measurements and a similar icon next to the specific measurement indicates if it was impacted. A green check mark indicates that the measurements completed successfully.

R Acoustic coupling & REOG

- i **High ambient noise level**
- i Acoustic Coupling
- ✓ REOG
- ✓ MLE

In the above scenario the REOG and MLE measurements completed successfully, but the acoustic coupling measurement was impacted by high ambient noise. Clicking on the Details button will provide additional details and recommendations.

Measure and match targets

Select the program that will be active during verification.

Set the maximum level at the eardrum at which to stop the measurement.

Stop measurement, if level at eardrum is higher than

R 99

+

-

 dB

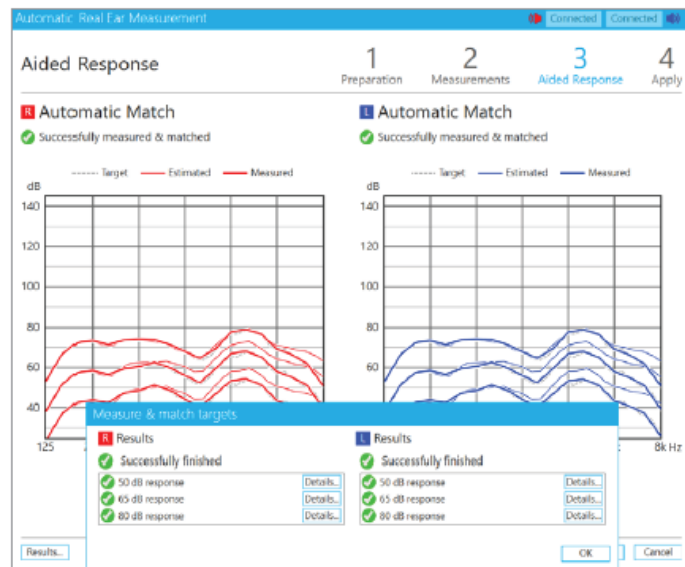
L 99

+

-

 dB

Click Measure to automatically apply acoustic information (i.e. REUG, acoustic coupling, and REOG), run aided response measurements, adjust the hearing instrument output to match targets and obtain the hearing instrument responses.

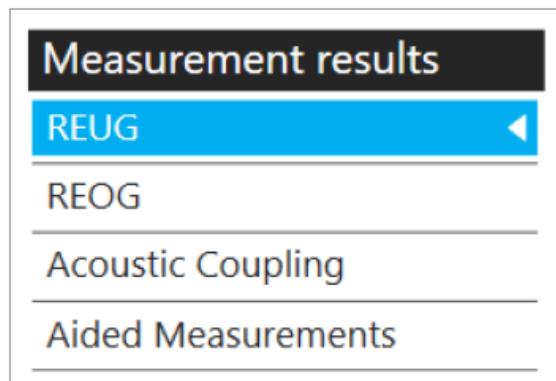


In the above example, the green check marks indicate that all measurements completed successfully. If any one or more of the measurements encounter an issue, an appropriate warning/error icon and status message will be displayed. Select Details for each of the measurements to see an explanation of the results.



Finishing Automatic REM

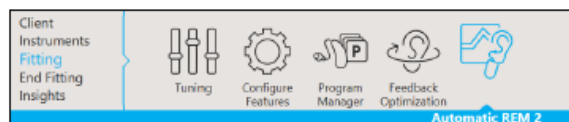
Click Save to apply the changes to the fitting and store all measurements within the current session in the Unitron TrueFit fitting software with the option to add notes. Once saved, you can view the results for the REUG, REOG, acoustic coupling and aided measurements on the Fitting > Automatic REM screen.



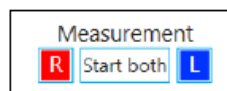
Note: The REUG measurements are also displayed in the Client > REUG screen.

Automatic REM 2 workflow

Automatic REM 2 can be accessed via the Fitting tab. It is accessible within Unitron TrueFit fitting software when running Noah and connected to a compatible system. If there are Automatic REM 2 results from a previous session, they will be visible regardless of connection status.

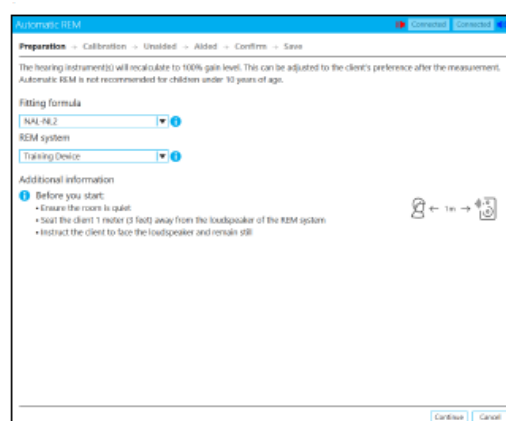


The workflow can be run for either Left or Right or both ears. Click R / Start both / L to start Automatic REM 2.



Preparation

Choose the preferred fitting formula and select the REM system being used. If launching the workflow within a training session, 'Training Device' will be listed under REM system, as pictured below.

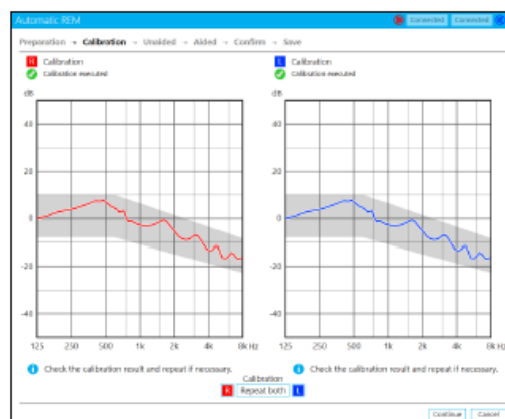


Calibration

Follow the on-screen instructions to calibrate the probe tubes or select Skip to move to the next step.

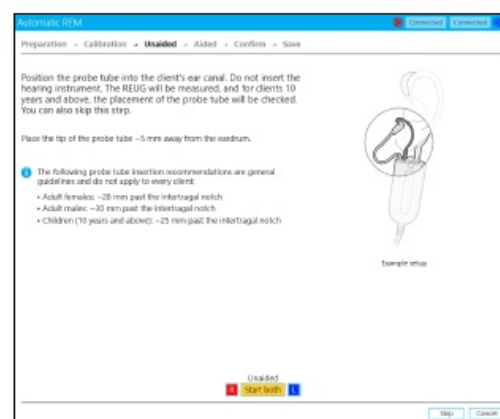


Check the calibration result and repeat if necessary. Measurements can be repeated bilaterally, or unilaterally as required.



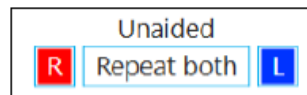
Unaided

This is the REUG measurement. Follow the on-screen preparation instructions then click R / Start both / L to start the measurement or select Skip to move to the next step.



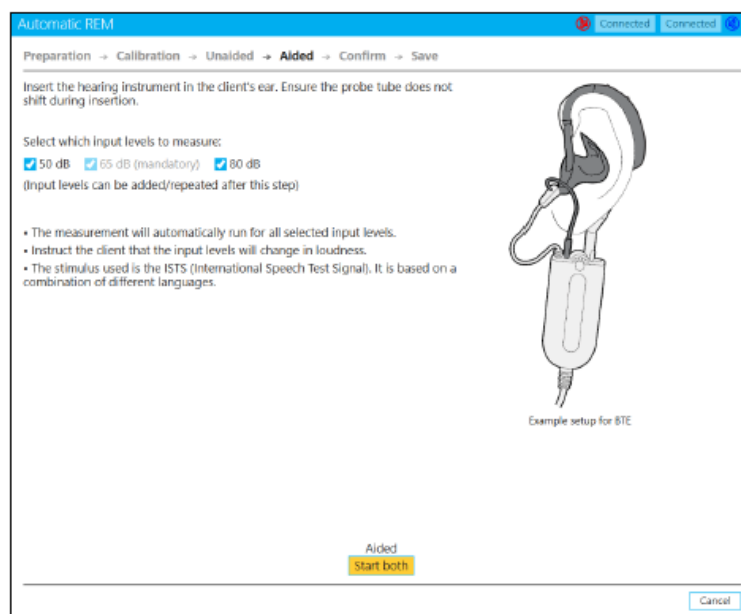
When the results of the REUG measurement are displayed, a green check mark indicates that the measurements were completed successfully.

If there were any issues encountered with the measurements, a warning icon will be shown with a brief status message. The user then has the option to repeat the measurement if needed.



Aided

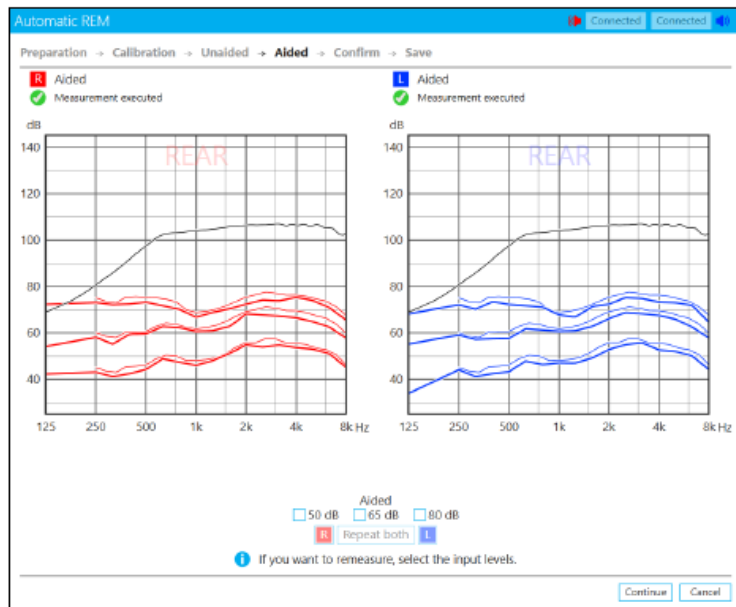
Follow the on-screen preparation instructions. Select the input levels required (65 dB is mandatory), then click Start to start the measurement.



Note: Please make sure that the probe tube position doesn't change while inserting the hearing instruments.

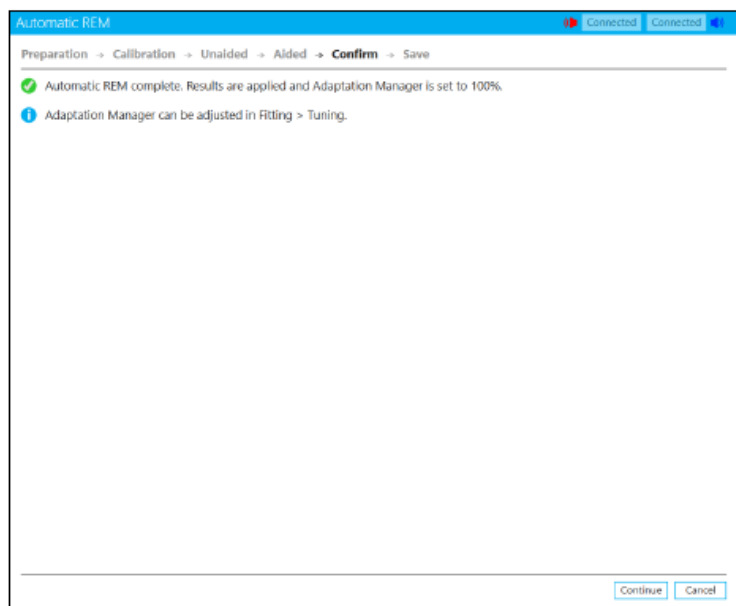
The ambient noise, acoustic coupling, REOG and MLE will all be measured during this step, before automatically proceeding to match to target.

When the measurement is completed, results will be displayed for review. The measurement can be repeated for any or all the input levels from this screen.



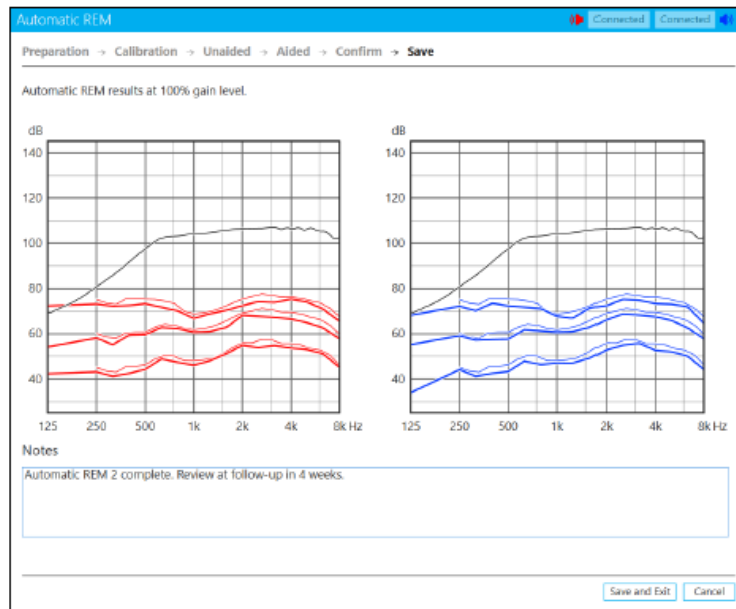
Confirm

The Automatic Adaptation Manager will be set to 100% upon completion of the workflow. Should adjustments to the Automatic Adaptation Manager be required, navigate to Fitting > Tuning.

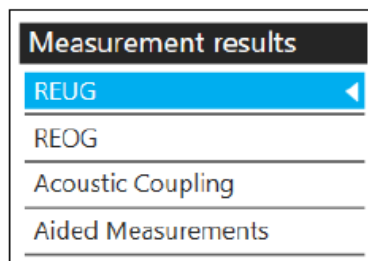


Save

The final step presents a summary of the measurements, a reminder that the gain level is set to 100%, and the option to leave a note on the session. Click Save and Exit to complete the workflow.



Once saved, you can view the results for the REUG, REOG, Acoustic Coupling and Aided Measurements on the Fitting > Automatic REM 2 screen.



Note: The REUG measurements are also displayed in the Client > REUG screen.

Glossary

Acoustic coupling – a measurement performed to characterise the acoustic impact of the physical coupling of the hearing instrument to the client's ear. This is also known as the ear-to-coupler level difference (ECLD).

Aided Measurements – Real Ear Measurements (REM) performed with the hearing instrument inserted in the clients ear and turned on.

Automatic REM and Automatic REM 2 – automated system for REM that provides users with a seamless, step by step workflow that incorporates Real Ear Measurements into the fitting process, directly in Unitron TrueFit fitting software.

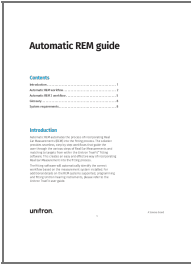
- MLE – Microphone Location Effect
- REOG – Real Ear Occluded Gain
- REUG – Real Ear Unaided Gain

System requirements

For details on system requirements and supported Automatic REM systems, please refer to the Unitron TrueFit user guide or navigate to www.unitron.com/truefit-compatibility



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Documents / Resources

	Unitron TrueFit Software [pdf] User Guide TrueFit Software, TrueFit, Software
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References

- [User Manual](#)

 Software, TRUEFIT, TrueFit Software,
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