

Phonak FAQs.

TargetMatch 2.0

TargetMatch 2.0 is an all-in-one automated real ear measurement (REM) and verification solution. It is accessible within Phonak Target and it syncs with your REM software. TargetMatch measurements take into account the unique anatomy of your client's ear, for a more personalized fitting experience.



TargetMatch 2.0 uses the IMC2 protocol. IMC2 stands for Inter Module Communication 2. It is an industry standard for a software interface, allowing fitting software and REM software to "talk" to each other directly.

Equipment and preparation

What equipment is needed to use TargetMatch 2.0?

- Phonak Target 9.0 or higher
- Noah software version 4.4 version or higher
- REM equipment and software
 - Auditdata Primus Pro with software version 4.1.0 or higher
 - Interacoustics Affinity 2.0 and Affinity Compact with software version 2.19 or higher
 - Signia Unity 3 with software version 5.9.0 or higher

How do I get TargetMatch 2.0 to work in Phonak Target?

- Install the appropriate version of the REM software and Phonak Target to the Noah system.
- Confirm everything is plugged in, turned on and working.
- Open Phonak Target. TargetMatch is visible under [Fitting] > [Global tuning].

Which workflows are included in TargetMatch 2.0?

TargetMatch 2.0 guides you through the steps of performing REMs. The steps include:

- Probe tube calibration
- Probe tube placement check
- Performing real-ear unaided gain (REUG), real-ear occluded gain (REOG), real-ear aided responses (REAR), and automatic target matching.
- Adjusting global gain and auto acclimatization

Is there a standalone version of TargetMatch 2.0 available?

TargetMatch 2.0 is only available when Phonak Target is installed through the Noah system. The Noah system allows the communication between Phonak Target and the REM equipment.

If AudiogramDirect results are available, does TargetMatch 2.0 take the audiogram from the Noah software or the audiogram from AudiogramDirect?

If the AudiogramDirect results are applied to the fitting, then TargetMatch 2.0 takes the audiogram from AudiogramDirect. If the audiogram stored within Noah software is applied to the fitting, then TargetMatch 2.0 takes the audiogram from Noah.

Which prescribed targets are compatible with TargetMatch 2.0?

TargetMatch 2.0 is compatible with NAL, DSL, and Phonak's proprietary fitting rationale, Adaptive Phonak Digital (APD).

Is performing the feedback test necessary before beginning TargetMatch 2.0?

It is recommended to perform the feedback test and to tick the box to use the estimated vent from the feedback test. Ticking the box to use the estimated vent overrides the information entered into acoustic parameters. The benefit of ticking the box is that Phonak Target applies a more accurate vent calculation to the fitting based on how the earpiece is sitting in the client's ear.

How often should the REM equipment be calibrated?

The frequency of the calibration varies per REM equipment. It is recommended to consult with the manufacturer of your REM equipment for guidance.

Probe tube placement check and real-ear unaided gain (REUG) measurement

What age range is the probe tube placement check available for?

The probe tube placement check has been tested and validated with adult ears. It is available with children older than 10 years of age because they have similar size ear canals as adults.



How does the probe tube placement check work?

It estimates the distance to the eardrum due to a probability distribution. This means a probability for distance is calculated based upon known ear canal distance and a margin of safety is applied so that the probe tube does not touch the eardrum.

What happens if I cannot get the probe tube placement check to work on some ears?

There is a small percentage of ears (<10%) where this check may not work. If the placement check fails, consider the following:

- First, pull out the probe tube slightly if it is already deeply inserted into the ear canal, or push the probe tube slightly in, if it is further away from the eardrum. Redo the measurement.
- If this new measurement succeeds, continue with the placement. If the new measurement continues to fail, stop using the placement check and do the probe tube positioning visually.

Can TargetMatch 2.0 detect issues such as blocked, crushed, bent, or debris in a probe tube?

Yes, TargetMatch 2.0 has this capability and will provide troubleshooting suggestions if an issue has been detected.

Measuring and matching real-ear aided responses (REARs)

Do I have to remember to mute and unmute the hearing aids when measuring aided responses with open fittings?

No, the hearing aids will automatically be muted and unmuted as needed.

Which hearing aid program can I perform TargetMatch 2.0 in?

TargetMatch 2.0 is performed in the client's startup program, which is typically Calm Situation. The automatic fine tuning adjustments made in Calm Situation will be applied automatically to the other programs.

Which verification modes are available with TargetMatch 2.0?

The verification mode available is REM with automatic measuring and matching to targets.

Are hearing aid features deactivated during TargetMatch 2.0?

Adaptive hearing performance features, such as SoundRecover2 and sound cleaning features, are temporarily deactivated during measurements. The feedback threshold canceller remains active. This reduces the amount of steps you would need to take to prepare the hearing aids for measurement.

Which stimulus is used to perform REAR?

The stimulus used is the International Speech Test Signal (ISTS). The ISTS is a standard test stimulus that includes all the relevant properties of speech, consisting of multiple different languages which are non-intelligible.

Which stimulus levels can I choose from?

The available stimulus levels are soft speech at 50 dB SPL, average speech at 65 dB SPL and loud speech at 80 dB SPL. 65 dB SPL is mandatory to perform, whereas 50 dB SPL and 80 dB SPL are optional.

Finalizing TargetMatch 2.0

When changing the global gain level to a value below 100%, how does this affect the automatic adjustments made during TargetMatch 2.0?

When the global gain level is changed to below 100%, this only brings the overall gain down to the specified level, while still preserving the automatic adjustments that were made during TargetMatch 2.0.

When the results are displayed, is that view in output or gain?

The view is in output dB SPL.

Once you accept the changes and close TargetMatch 2.0, are the changes then reflected in the fine tuning screen?

Yes, the changes made will be reflected in your fine tuning screen.

Can I view the TargetMatch 2.0 results in the REM software?

The measurement results are saved and can be viewed in Phonak Target. In some cases, the measurement results can be viewed in the REM software, but this is dependent on the REM manufacturer.

Why does the feedback threshold change after performing TargetMatch 2.0?

When viewing the measured feedback threshold in the gain – real ear view or insertion gain view, the displayed feedback threshold may look different as the new measurements obtained from TargetMatch 2.0 are applied to the gain curves and target curves. The measured feedback threshold itself does not change

Why may the prescribed targets in the REM software differ to the one in TargetMatch 2.0?

When comparing targets generated by TargetMatch 2.0 and the targets generated by the REM software, it is important to recognize the reasons for these variances. Examples of differences may be due to:

- the various implementation methods available for calculating the target curve across REM software.
- differences in available parameters between Phonak Target and the REM software.
- vent compensation applied to the calculated targets as TargetMatch 2.0 can read more information about the hearing aid, fitting conditions and acoustic coupling than what is foreseen when looking at the generic fitting formula in the REM software.
- For more details, please refer to the Phonak Insight on *Client satisfaction and fitting efficiency with verification* available on phonak.com/evidence.