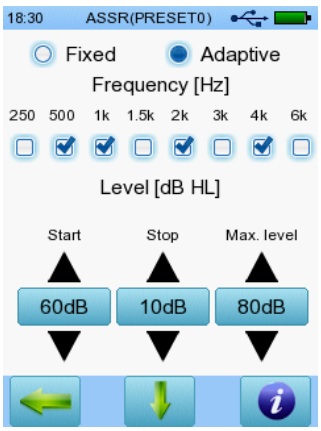
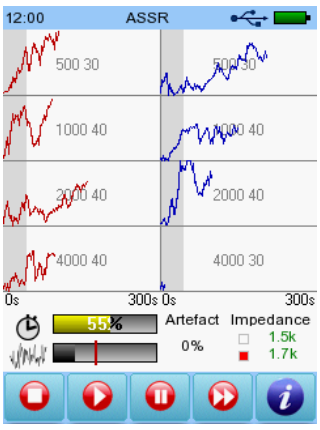
What's so unique about PATH's ASSR? Any references or publications?

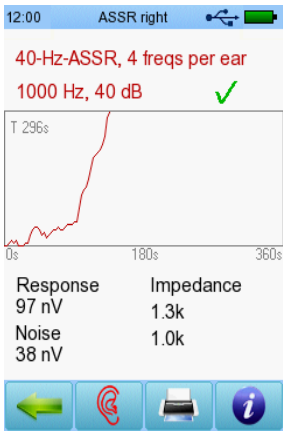
In contrast to competing manufacturers of ASSR devices, Sentiero is the only device to perform diagnostic ASSR on a battery powered handheld device (power loss? No problem!) in a non-sedated setup in any room. **Record ASSR anywhere**: Child's bed, surgery, audiometry booth etc. External sources of electrical interference have much less impact on the new weighted averaging algorithms.



Settings 250 Hz – 6 000 Hz10 dB – 100 dB, single or multiple levels, frequencies



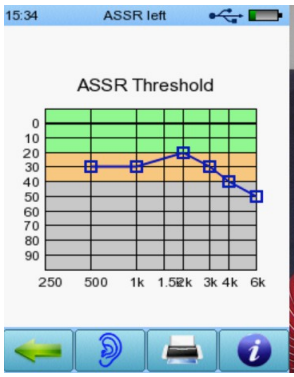
Continuous evaluation of statistical analysis and impedance check. Single touch for simplified view of status (checkmarks).



Detailed review of single pass result with impedance, response and residual noise.

Result overview with checkmarks (high significance: green) or refer results. Single touch on result to review details.

Sentiero's ASSR has 5 different presets to be adapted and configured to your needs. A fixed screening protocol (from 0 – 100 dBHL) is possible as well as an adaptive threshold estimation with an automated procedure. Transducers such as insert phones, headphones or the ear probe EP-DP can be used (and exchanged) without recalibration – as calibration data is kept with the transducer's plug. Impedance check, profound statistical analysis and easy to read results now enable ASSR to become a state of the art screening procedure for follow up on newborns! External studies showed:



For eliciting Auditory Steady-State Response (ASSRs) **multiple narrow-band chirp stimuli** (up to 4 **in each ear, binaural stimulation**) are presented to the ear with slightly **jittered stimulus repetition** rates (random change) to get **maximum response** amplitudes and **resistance to interference.** Multiple-frequency ASSRs are **analysed (i.e. averaged and detected) independently** from each other to allow a stimulus paradigm which adapts quickly to the subject's individual hearing loss... **Threshold differences between behavioural hearing thresholds and 40-Hz-ASSR thresholds** ranged between -12 and 15 dB. The **correlation was 0.9, mean error 1 dB and standard deviation 7.2 dB.** The results indicate the efficiency of the algorithm implemented on a mobile hand held device.

Mean test duration was 14 minutes for the normal hearing group and 24 min for the hearing-impaired group to estimate four thresholds in both ears. Please compare to competing devices yourself!
Rosner, T. and Lodwig, A. (2013). Chirp evoked ASSR on a handheld device, in XXIII Int. Evoked Response Audiometry Study Group, New Orleans, US-LA, p. 49.

Did you check out the DEMO mode on your Sentiero Advanced yet? 15 days free of charge trials of full featured modules and tests! Do you want to update? ***Address of buyer, special remarks and signature of sales representative:***