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Pediatric testing – at its best!

ICS Chartr EP 200 is a new system for Auditory Evoked Potential testing. The system builds on the expertise of our acknowledged ICS Chartr line, creating a portable, easy-to-use system. The patient database includes data from EP, ASSR and VNG/ENG tests.

Focusing on the patient

When testing Pediatric patients, time is limited so a smooth work process is essential. The ICS Chartr EP 200 offers:

- A comprehensive default test battery
- Three easy access tabs making acquiring and reviewing data quick and intuitive
- Setup where moving of electrodes is not needed
- Display of waveforms on unlimited pages



Pediatric friendly hardware

The ICS Chartr EP 200 hardware was built with the Pediatric population in mind.

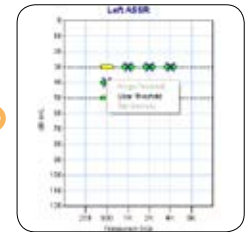
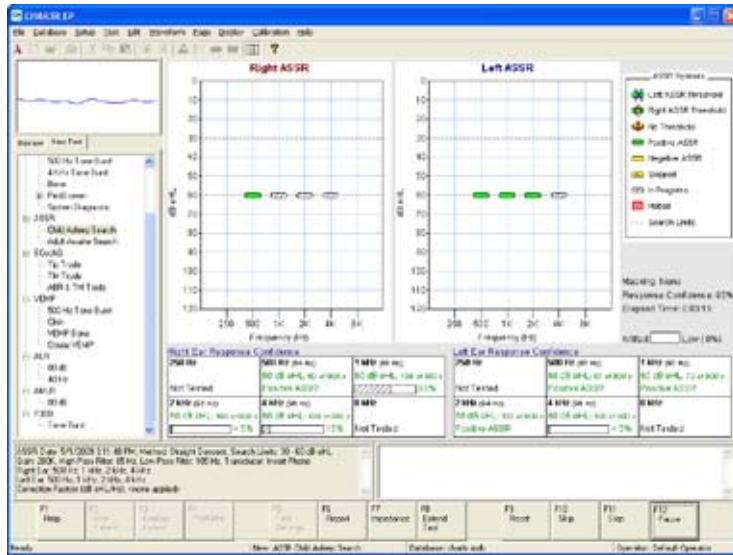
The system comes with a preamp shoulder harness and a lanyard that make it possible to hang or attach the preamp to the patient's crib or to rest it over the guardian's shoulder.



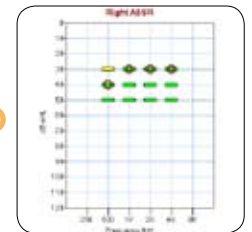
Impedance values are displayed on the preamp, allowing you to stay close to the patient and verify the connectivity of the electrodes. A comprehensive remote control lets you maintain that personal contact needed during Pediatric testing.

The patient is in focus at all times. The ability to view the EEG ensures the patient is relaxed prior to and during collection. A continuous stimulus during the entire test – instead of turning on and off – eliminates the risk of waking the patient.

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Thresholds can be cleared or assigned by the user.



Uncorrected ASSR results displayed. Corrected ASSR results available.

Auditory Steady State Response (ASSR) is a great addition to the ICS Chartr EP 200. The software interface makes it easy to toggle between EP and ASSR protocols.

ASSR allows you to obtain frequency specific information quickly and efficiently. In fact, the RapidASSR™ response detection algorithm makes it possible to collect up to six frequencies simultaneously. The proven algorithm uses a Fourier Linear Combiner with an adaptive filter and circular T² statistical analysis*.

Flexible data collection

The ICS Chartr EP 200 with ASSR offers a Quick Search program. It starts the response search between the upper & lower intensity limits and adjusts based on the patient’s data. With one easy click the user has the ability to modify the data collection and select to skip a frequency at a particular intensity level. Both of these features decrease test time. The software assigns

a threshold but the user has full control and the ability to override this decision.

Accurate and efficient

- Data is collected from both ears simultaneously or monaurally. However, binaural data collection is independent
- EEG is always viewable during data collection and impedance can be checked at any time during testing
- Masking ensures accurate test data when the patient has a unilateral or conductive hearing loss
- Two montage options are available; the traditional Cz to Nape montage or Cz to Mastoids using Linked Mastoids

*) Vaz CA and Thakor NV (1989) "Adaptive Fourier Estimation of Time-Varying Evoked Potentials," IEEE Trans. Biomed. Eng. 36(4), 448-455.
Tang Y and Norcia AM (1995) "An adaptive filter for steady-state evoked responses," Electroenceph. Clin. Neurophysiol. 96, 268-277.
Victor, J. D., and Mast, J. (1991) "A new statistic for steady-state evoked potentials," Electroenceph. Clin. Neurophys. 78, 378-388.)



● Hearing Assessment ● Fitting Systems ● Balance Assessment

GN Otometrics, Europe. +45 45 75 55 55. info@notometrics.dk
GN Otometrics, North America. 1-800-289-2150. sales@notometrics.com
www.otometrics.com