

# Quality that you can feel



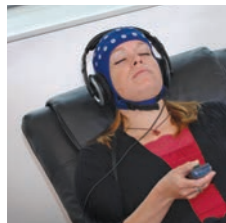
## WaveGuard EEG cap

The WaveGuard EEG Cap is the latest and most advanced cap available at this moment. The caps are available in different configurations (standard EEG as well as TMS, MEG and fMRI compatible) and electrode layouts. Specialized high-density caps as well as a clinical montage (i.e. routine EEG) makes the WaveGuard cap the ideal choice for your application. The cap is very lightweight through the use of thin electrode wires and modern cap material. This ensures comfortable recordings, even over a longer period of time. The option to use shielded wires makes the cap less susceptible to outside noise. Due to the special design of the electrodes, and the superb quality of the sintered Ag/AgCl electrode material, the cap can be applied easily and fast without the need of any special preparation.



## Custom made

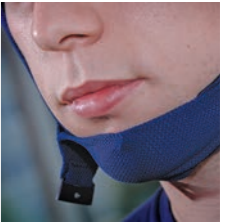
- Cap system can be connected to any existing EEG system
- Customized layouts available upon request



## Features and benefits

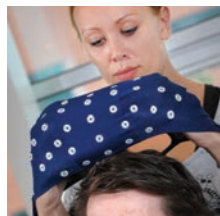
- Small sintered Ag/AgCl electrodes provide high-quality recordings
- Optimized shape of electrodes minimizes induction type artifacts (e.g. fMRI, TMS)
- Active noise cancellation with shielded wires\*
- Integrated electrodes provide easy application within minutes
- Low profile of electrodes allows recording in MEG systems or MRI scanner
- Coolmax™ fabric for enhanced comfort and short drying times
- Inside lining in cap, so that no wires are left exposed
- Rubber rings inside cap for stable electrode positioning
- Smart color coding of all electrodes on cap, including name tags
- Two different closing mechanisms on or below the chin, optional chest belt
- Easy to clean

\* in combination with ANT amplifiers



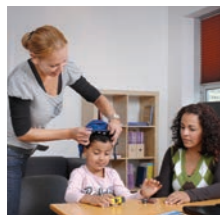
# Technology that you can trust

# WaveGuard™ EEG Cap



## fMRI compatible

The WaveGuard EEG caps is available in a MRI compatible version. For optimal EEG signal quality, extra care is taken for the placement and twisting of wires inside the cap to prevent loops and reduce interference. Safety resistors at each electrode are included. Optionally, shielded wires can be used for optimal suppression of interference within the MRI scanner.



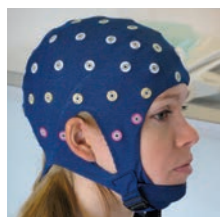
## MEG compatible

MEG/EEG acquisition can be carried out using a non-magnetic WaveGuard EEG cap. The ultra-thin wires and low profile of the electrodes are optimal for applications in the MEG helmet. Optionally, openings in the cap are provided to directly access head positioning coils. Different cap connectors ensure compatibility with all major MEG manufacturers.



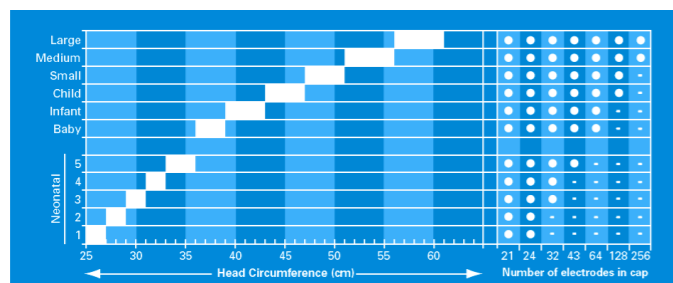
## TMS compatible

All WaveGuard EEG caps are compatible with Transcranial Magnetic Stimulation. EEG can be recorded during the TMS experiment, with very high quality and short artifact recovery times.



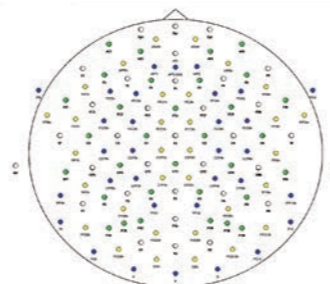
## Sizes

The set of cap sizes fully covers all possible head shapes and age ranges. A medium size WaveGuard cap fits approximately 65% of the population aged 10 or older.

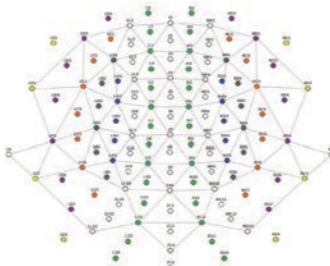


## Layouts

The WaveGuard EEG cap is available in two different types of electrode layouts:



five percent electrode layout



Equidistant hexagonal layout

## Caps according to the five percent electrode system

This electrode placement scheme is an extension to the 10/20 and 10/10 percent systems and allows the positioning of more than 300 electrodes. The naming scheme includes labels and positions according to the standard nomenclature as well as its logical extension for the intermediate locations.

## Equidistant hexagonal layout - ANT/Duke layout

In this electrode scheme all electrodes have 6 neighboring electrodes at equal spacing. The layout includes more lower positions; together with the near-perfect spatial distribution this is beneficial for source localization. Electrode names follow a consistent labeling scheme based on the left/right/central parallel lines.



## ASA-Lab™: turnkey solution for EEG/ERP research

Event-related potentials and high-density EEG are a key source of information to unveil the highly dynamic relations between cortical brain regions. ASA-Lab™ provides you with a turnkey solution to explore the brain's reaction to a particular experimental paradigm within minutes!

