visor2™

Functional Motor Mapping

ant neuro

inspiring technology

visor2™

Functional Motor Mapping

Navigated TMS (nTMS) is a crucially accurate and reliable tool which can be used for a wide range of clinical and research purposes. This method is particularly valuable for non-invasive and precise delineation of cortical functional topography. The precise level of cortical delineation provided by nTMS highly contributes to appropriate surgical decision making. In addition to non-invasively identifying resectable brain tissue in or near the motor cortex, nTMS motor mapping has also been shown to contribute to safer application of radiotherapy in patients suffering from metastases in motor-eloquent areas of the brain. visor2™ integrates navigated TMS and EMG recording with real-time 3D visualization of stimulated brain areas, which optimizes the entire motor mapping process.

Up to 64 EEG and 8 EMG channels are supported during multi-channel EMG recordings

All integrated components are mounted on a medical cart which is highly reliable and portable at the same time.
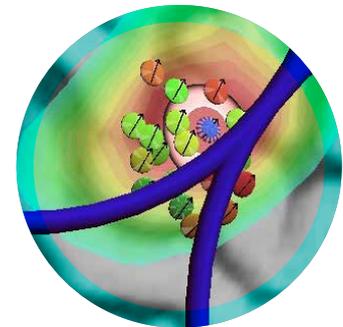
Advanced features and customizable, intuitive workflows in the software

In **vi**sor2, evoked motor responses are projected onto the patients' anatomical MRI to create functional maps relating to the relevant cortical areas. Supported by a real-time estimation of

TMS-induced electrical fields, **vi**sor2 calculates and highlights targeted locations. The evoked motor responses are processed online and the calculated amplitude is projected onto an image

of the stimulated cortical location to generate functional maps. The generated maps or single MEP responses can be exported to DICOM for use in surgical navigation systems.

Motor mapping session in online navigation mode.

An EMG response map is generated on the MRI and can be exported in DICOM format.