

nordic fMRI Solution

Integrated hardware and software solution for clinical fMRI



- *Professional installation, application training and customer support*
- *Quick set-up and adjustment to individual patients*
- *Minimal footprint and easy storage of equipment in MR room*
- *Standardized stimulus paradigms*
- *Minimal user interaction due to optimized workflow and automated data analysis*

The introduction of fMRI as a clinical tool has added vital information to patient treatment and evaluation. fMRI is a sophisticated technology, but does it have to be complex and require considerable time and resources?

At NordicNeuroLab we believe that the clinical use of fMRI requires simple automated procedures, enabling a single technician to handle stimulus generation, image acquisition, data analysis and reporting and exporting of results.

NNL's nordic fMRI Solution was developed to handle just that. nordic fMRI Solution has been specifically designed to fit within the workflow of your hospital's daily routine and has been tailored to integrate software and hardware components simply and effectively.

Customizable to your center's needs, nordic fMRI Solution is a flexible and sophisticated tool that continues to evolve as a result of our strong partnerships with MRI manufacturers, leading research institutes, and hospitals

nordic fMRI Solution



1 Paradigm and workflow software

- Intuitive interface and instructions guide the user through the process of presenting stimuli to the patient
- Included library of ready-to-use standard clinical paradigms, allows the physician to test perceptual, motor, and language functions
- Automated data analysis for all paradigms in the library
- Automatic logging of exam parameters and patient's responses
- Interfaced with the MR scanner for synchronization of stimulus presentation with image acquisition

2 Audio-visual stimulus presentation and response collection hardware

- Fully integrated hardware for audio-visual stimulus presentation and response collection
- Flexible and convenient VisualSystem for stimulus presentation inside the MR scanner
- Ergonomically designed response device
- Compatible with MR scanners and head coils from all major vendors
- Suitable for field strengths up to 3T
- All signal transfer to and from the scanner room via fiber-optics

3 Analysis and report software

- Intuitive interface guides the user through the process of loading and analyzing BOLD, DTI, and structural datasets
- State-of-the-art 2D/3D visualization of white matter tracts together with BOLD fMRI activations on various underlays
- Analyzed data can be exported to neuronavigation systems or to the PACS
- Generation of exam report
- Works with image data acquired on scanners from all major vendors
- Runs on standard PC or laptop, no special hardware required