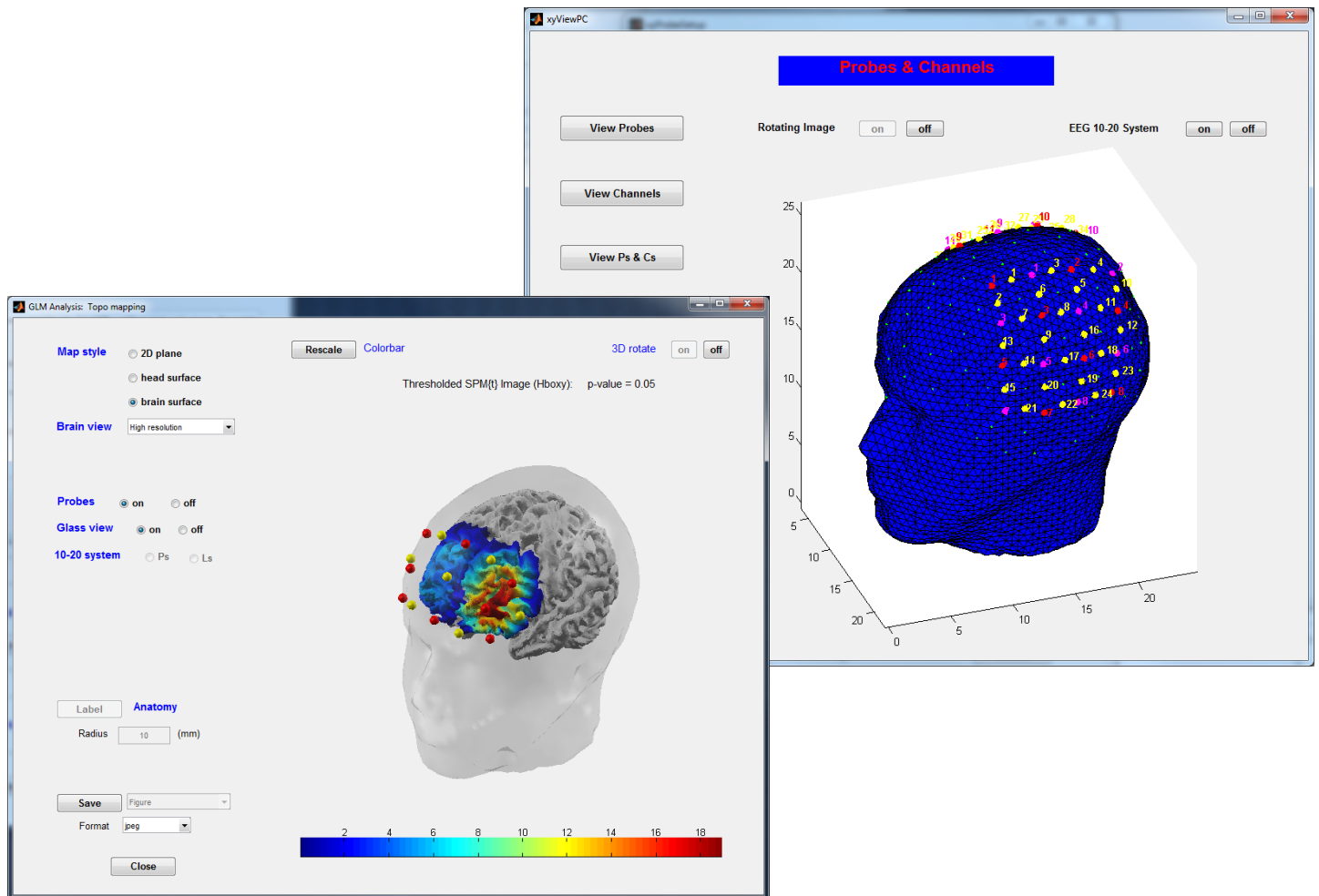




Dedicated
Near-Infrared Spectroscopy



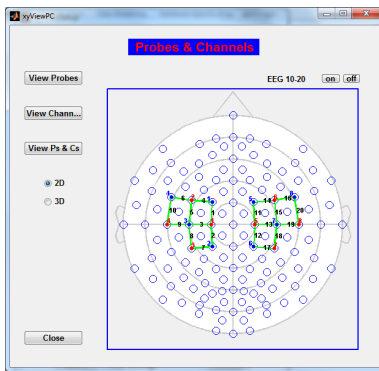
Your Comprehensive Toolbox for
Processing NIRS - Neuroimaging Data

nirsLAB
Topographic Neuroimaging Software

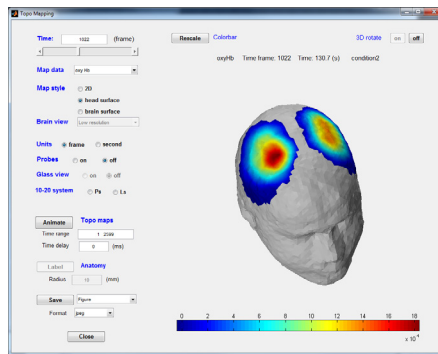
nirsLAB™

Provides users a feature-rich statistical parametric mapping environment designed to meet the most demanding neuroimaging study. Whether your study involves child or adult subjects, or mobile or hyperscanning environments, nirsLAB™'s GUI-based toolboxes provide the resources to easily edit and explore the many neuro-response features accessible by NIRS imaging technology from NIRx. Equipped with individual and group-level (MNI) atlases, single and multisubject findings can be quantitatively evaluated and mapped in a variety of display formats.

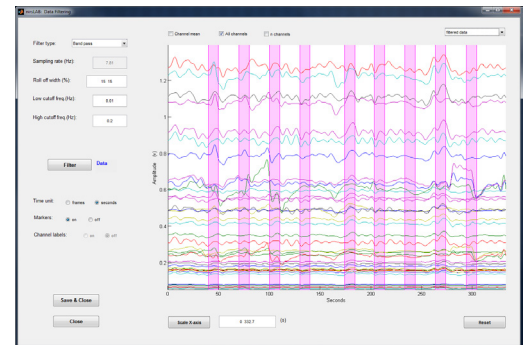
Optode Registration



Event and Data Editor GUIs



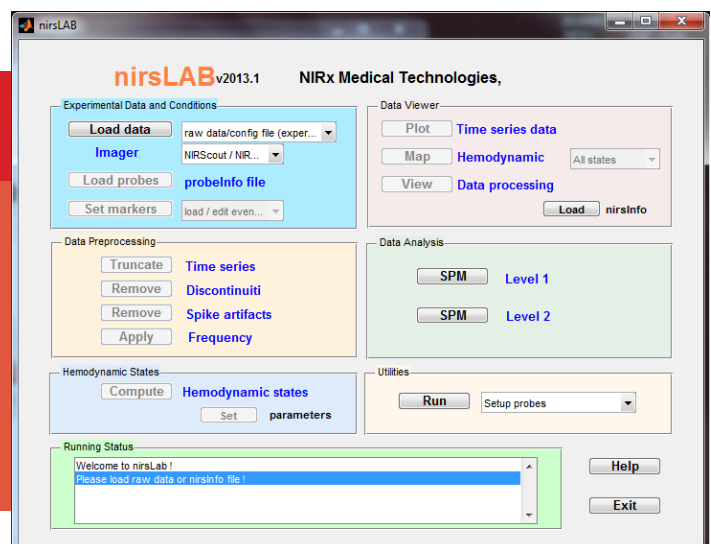
Data Viewing and Mapping

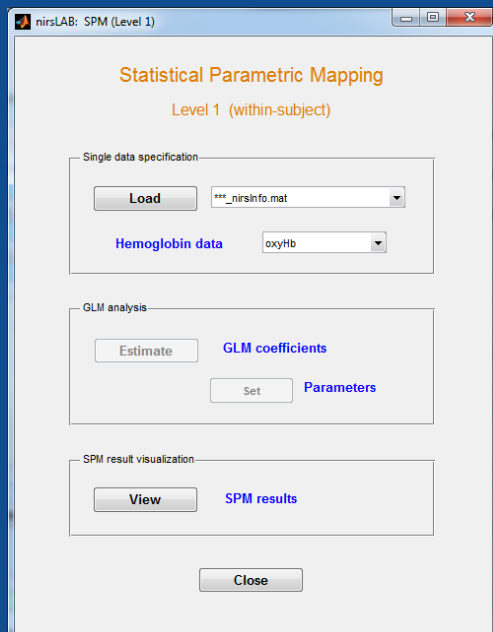


- Montage 10-20 viewing template
- Digital Registration (Polhemus Patriot)
- Graphical specification of sensor layout
- 2D and Head Surface Optode Displays
- Graphical-field entry editing
- Multiple conditions viewer
- Artifact correction/deletion
- Frequency filtering
- Time series display of raw or processed data
- Montage view of block-averaged responses
- 2D, scalp, cortical, glass view displays of Hb signals
- Metadata viewer

Homepage GUI

- Event and data editing
- Artifact removal/correction
- Anatomical optode registration
- Movies of Hb signal
- GLM-based statistical parametric mapping



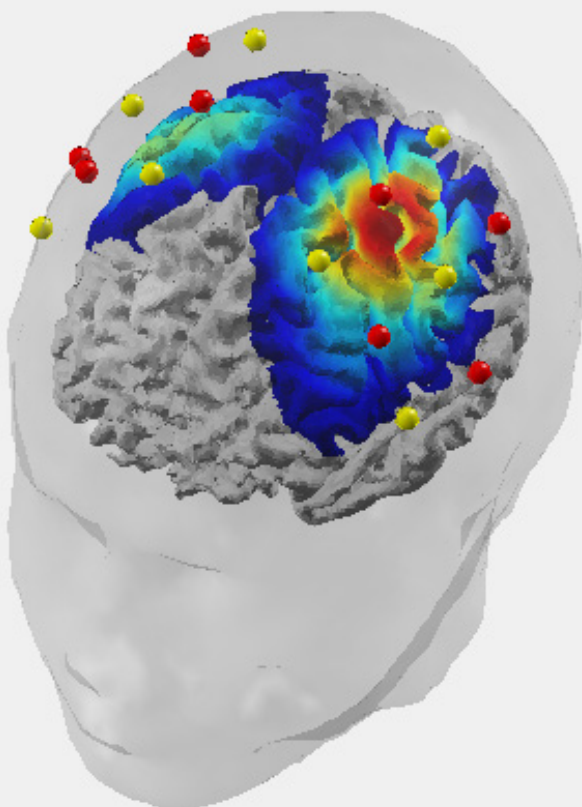
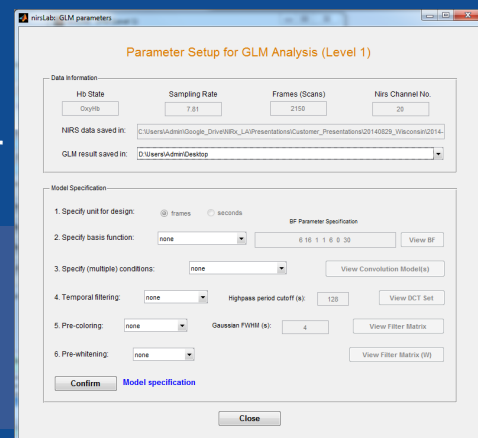


Statistical Parametric Mapping GUI

- Multi-condition GLM coefficient estimation
- t-, F-test analysis
- Subject, group-level analysis
- Anatomical parametric mapping

GLM Parameter Specification GUI

- Specification of Design Matrix
- HRF basis function toolbox
- Filtering toolbox



Anatomical Mapping of Parametric Analysis

- Multi-condition GLM coefficient estimation
- t-test or F-test analysis
- Subject-subject or group-level analysis
- Anatomical parametric mapping



NIRX
ENLIGHTENING INNOVATION

Dedicated
Near-Infrared Spectroscopy

Processing Environment:

Standalone or MATLAB 2009a - 2014a

Required toolboxes:

Basic MATLAB, Image Processing Toolbox, Signal Processing Toolbox, Statistics Toolbox

Operating System:

Windows XP , Windows 7 or Windows 8

Processing Environment:

- Memory: ≥ 4 GB
- Intel i5 processor or equivalent
- Storage: 200 GB
- 14" Monitor
- 1 USB2.0 port for imager

NIRx instrument systems and software are not FDA approved and not intended to support clinical diagnostic-treatment decisions. Instead, our products are designed to support scientific investigative studies that have been IRB approved.