

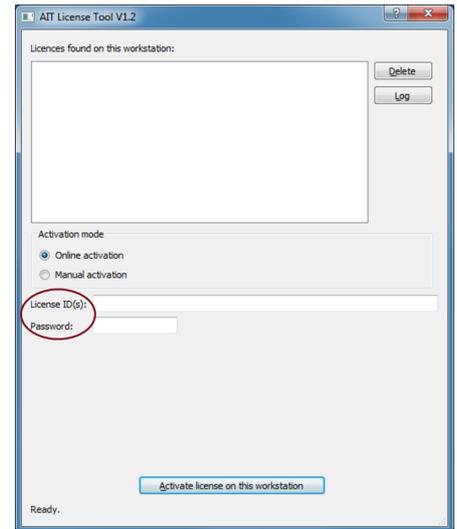
Quick Start Guide

encevis 1.3

Installation

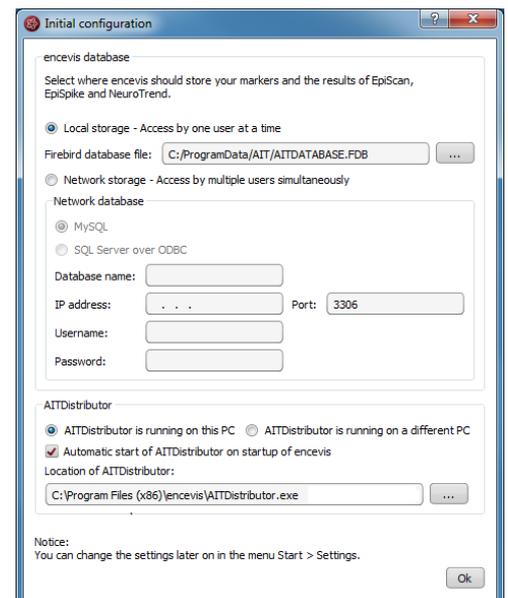
Once you have downloaded **encevis**, continue with the following steps:

1. Start the **encevisInstaller**, the installer will guide you through the installation process.
2. Start the **LicenseTool**.
3. If you are connected to the internet, select „**Online Activation**“, otherwise contact your distributor to get the keys for the manual activation.
4. Enter the LicenseID and Password.
5. Press „**Activate license on this workstation**“.

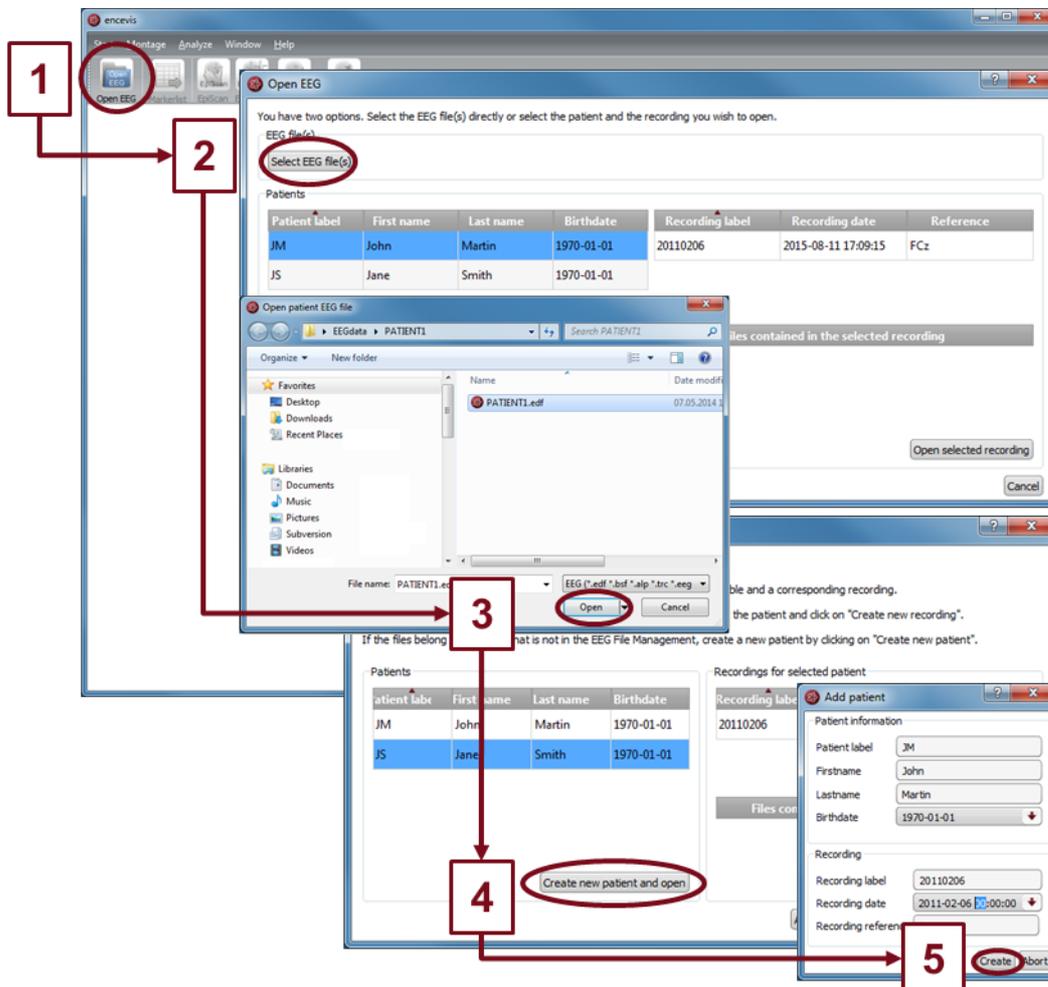


Start

1. Start **encevis**.
2. In the initial configuration keep the default settings.



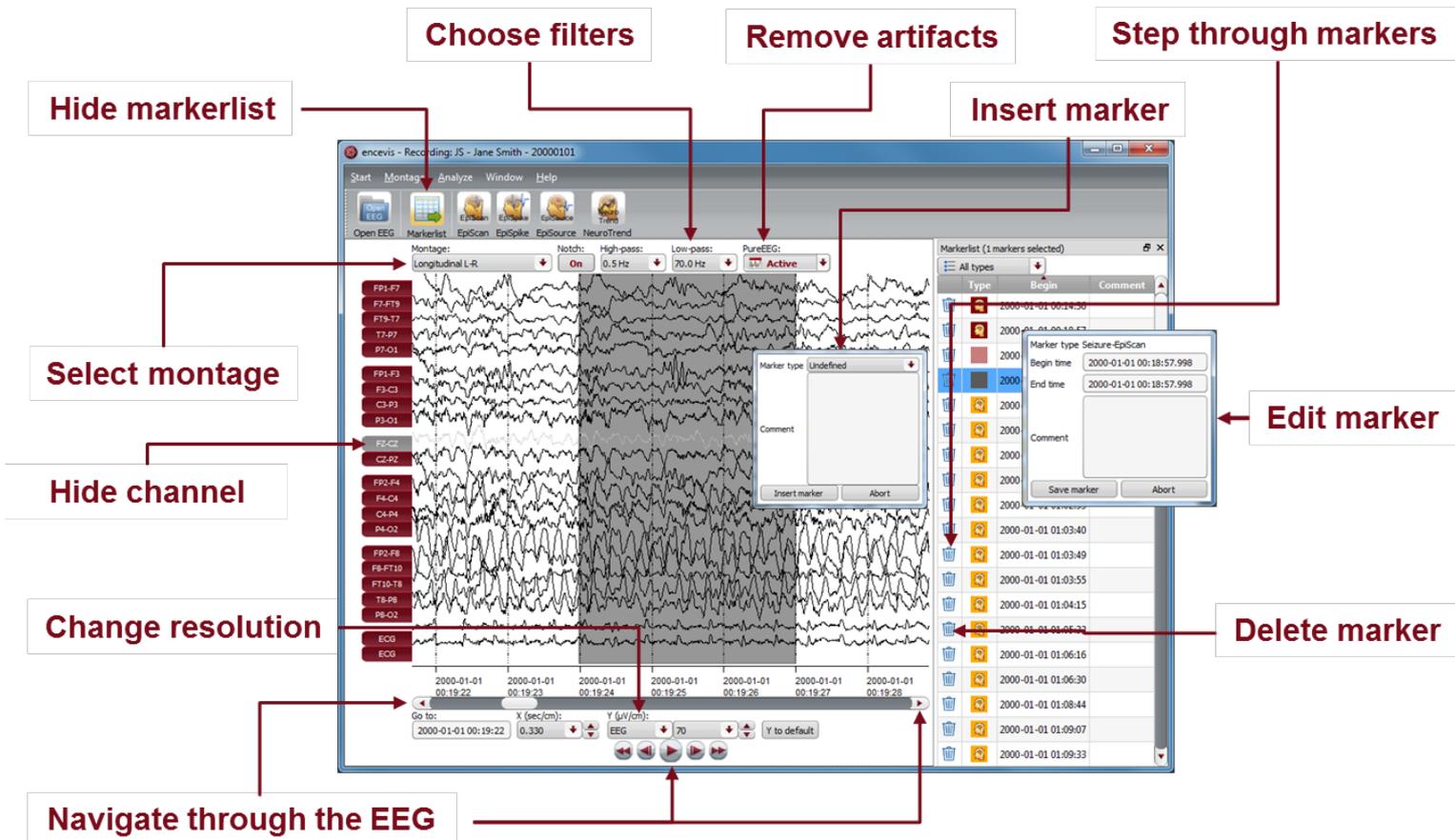
Open EEG file(s) in 5 steps



1. Press **"Open EEG"** or select the menu point **Start > Open EEG**.
2. Press **"Select EEG file(s)"**
3. Select the EEG file(s) that you would like to open.
4. If the file(s) are already registered in the EEG file management they will be opened immediately, otherwise a window will pop up. There, click on **"Create new patient and open"**, a new window will pop up.
5. Fill in the fields of the "Patient information". Fill in the recording label and the recording date and the reference with which the EEG recording was done. Click on **"Create"**.

 More detailed information about the patient management can be easily found in the help under the menu point **Help > encevis Help**.

Review EEG



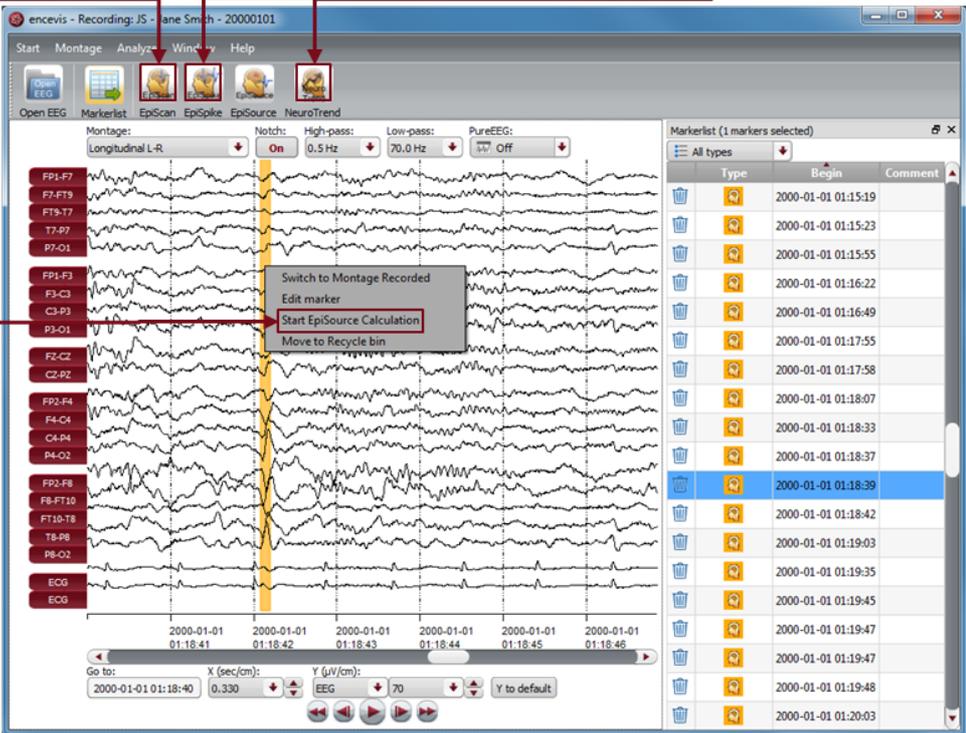
The screenshot shows the encevis software interface for reviewing EEG data. The main window displays a multi-channel EEG recording with a time axis at the bottom. A 'Markerlist' window is open on the right, showing a list of markers with columns for 'Type', 'Begin', and 'Comment'. A 'Marker type' dialog box is also visible, allowing for editing or inserting markers. The interface includes a menu bar (Start, Montage, Analyze, Window, Help) and a toolbar with icons for various functions. Red callout boxes point to specific features: 'Choose filters' points to the filter settings (Notch, High-pass, Low-pass, PureEEG); 'Remove artifacts' points to the PureEEG button; 'Step through markers' points to the navigation arrows at the bottom; 'Hide markerlist' points to the Markerlist window; 'Insert marker' points to the 'Insert marker' button in the dialog; 'Edit marker' points to the 'Edit marker' button in the dialog; 'Delete marker' points to the delete icon in the marker list; 'Select montage' points to the 'Montage' dropdown; 'Hide channel' points to the channel selection list; 'Change resolution' points to the 'X (sec/cm)' and 'Y (µV/cm)' settings; and 'Navigate through the EEG' points to the navigation arrows at the bottom.

You have now the possibility to use all functionalities of encevis:

- Navigate easily through the EEG.
- Remove artefacts with PureEEG.
- Change the settings of the channels by selecting a montage and hide channels.
- Change the resolution in time and in voltage.
- Select notch, high-pass and low-pass filters.
- Watch the EEG in two windows at the same time.
- Create, review and change markers for special EEG events.
- Markers are saved with the data in the marker list and can be reviewed anytime.
- Start automatic EEG analysis.

 More detailed information can be found under the menu point **Help > encevis Help**.

Start automatic EEG analysis



Start EpiScan seizure detection

Start EpiSpike spike detection

Start NeuroTrend EEG trending

Start EpiSource source localization by right clicking on a marker

Switch to Montage Recorded
Edit marker
Start EpiSource Calculation
Move to Recycle bin

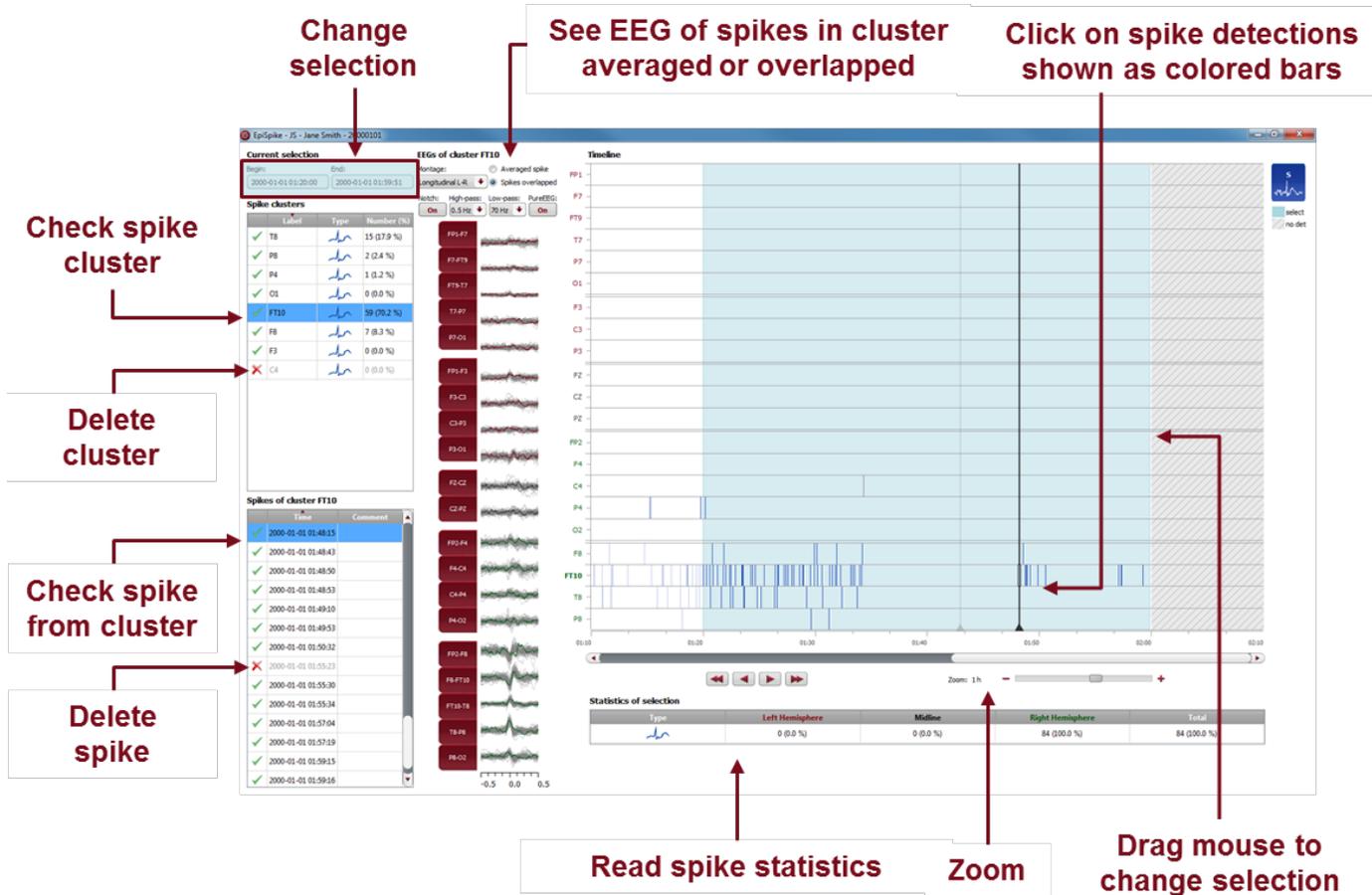
Type	Begin	Comment
🗑️	2000-01-01 01:15:19	
🗑️	2000-01-01 01:15:23	
🗑️	2000-01-01 01:15:55	
🗑️	2000-01-01 01:16:22	
🗑️	2000-01-01 01:16:49	
🗑️	2000-01-01 01:17:55	
🗑️	2000-01-01 01:17:58	
🗑️	2000-01-01 01:18:07	
🗑️	2000-01-01 01:18:33	
🗑️	2000-01-01 01:18:37	
🗑️	2000-01-01 01:18:39	
🗑️	2000-01-01 01:18:42	
🗑️	2000-01-01 01:19:03	
🗑️	2000-01-01 01:19:35	
🗑️	2000-01-01 01:19:45	
🗑️	2000-01-01 01:19:47	
🗑️	2000-01-01 01:19:47	
🗑️	2000-01-01 01:19:48	
🗑️	2000-01-01 01:20:03	

encevis offers you a series of automatic EEG analysis tools:

- EpiScan: the automatic seizure detection generates markers that you can easily review with the marker list.
- EpiSpike: the automatic spike detection detects spikes, clusters them by localization and visualizes the results for easy review.
- EpiSource: you can easily start the source localization on markers inserted manually or automatically. EpiSource has its own easy to use display.
- NeuroTrend: the advanced EEG trending calculates automatic detection of patterns, qEEG, aEEG and visualizes the results on a single screen.

 More detailed information can be found under the menu point **Help > encevis Help**.

EpiSpike



Change selection

See EEG of spikes in cluster averaged or overlapped

Click on spike detections shown as colored bars

Check spike cluster

Delete cluster

Check spike from cluster

Delete spike

Read spike statistics

Zoom

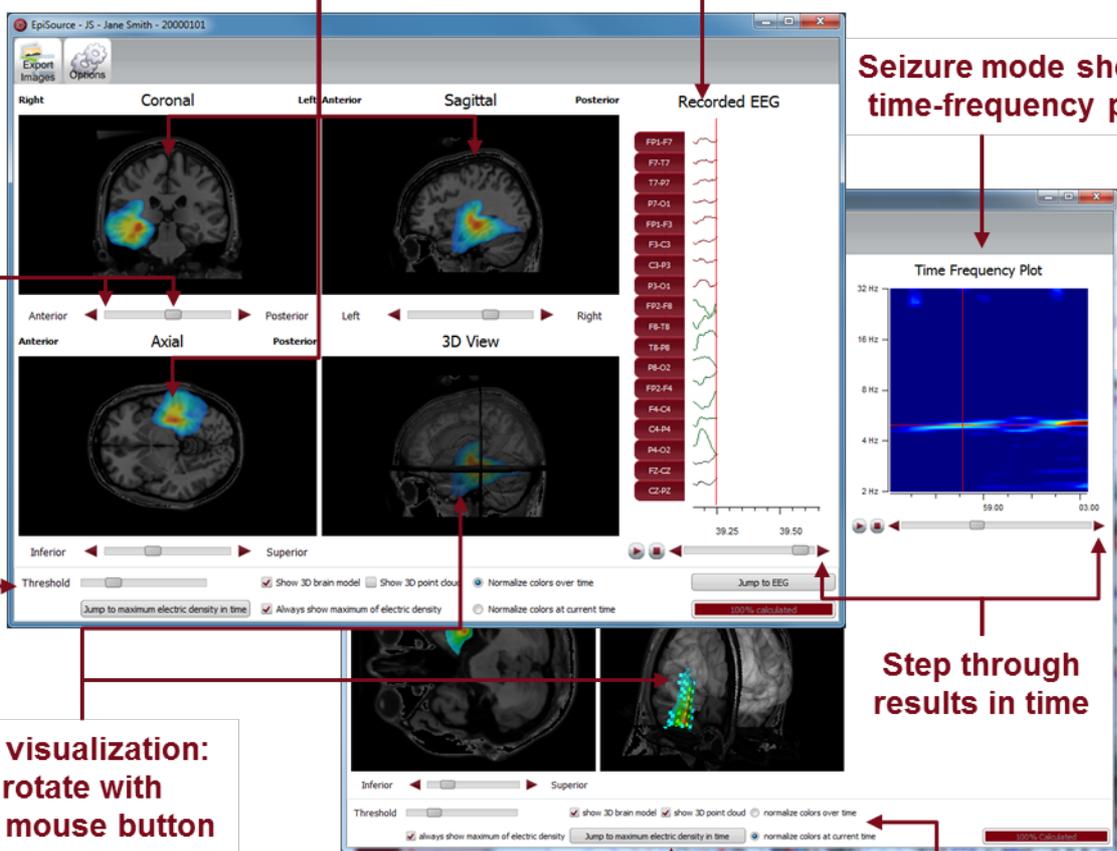
Drag mouse to change selection

The screenshot shows the EpiSpike software interface. On the left, there is a 'Spike clusters' table with columns for Label, Type, and Number (%). The 'FT10' cluster is selected. Below it is a 'Spikes of cluster FT10' table with columns for Time and Comment. The main window displays 'EEGs of cluster FT10' with a list of electrode channels (FP1-FP12, F7-F12, F3-F12, F4-F12, F8-F12, FT10-T8, T8-P8, P8-O2) and their corresponding EEG waveforms. A 'Timeline' view shows spike detections as blue bars across a time axis from 01:00 to 02:00. A 'Statistics of selection' table is visible at the bottom, showing data for Left Hemisphere, Midline, Right Hemisphere, and Total. Callouts with arrows point to various parts of the interface, explaining their functions.

Start EpiSpike and use all its functionalities:

- Start the detection on the complete time range or specify a time segment you are particularly interested in.
- Find the spike detections on a timeline as blue bars clustered and arranged by their localization.
- Zoom in and zoom out of the timeline using the mouse on the screen.
- Click on a detection to see its EEG and find it in the spike list.
- Choose if you want to see the average spike EEG of the cluster or all spikes overlapped.
- Go through the lists of spike clusters and their spikes and remove detections you do not want.
- Change time of selection for review and statistics.
- Synchronize with the EEG in the EEG viewer.

EpiSource



Results shown color coded in 2D slices

Spike mode shows spike EEG

Use controls or the mouse to navigate through the brain

Seizure mode shows time-frequency plot

Reduce the color coded overlay

3D visualization: rotate with left mouse button

Step through results in time

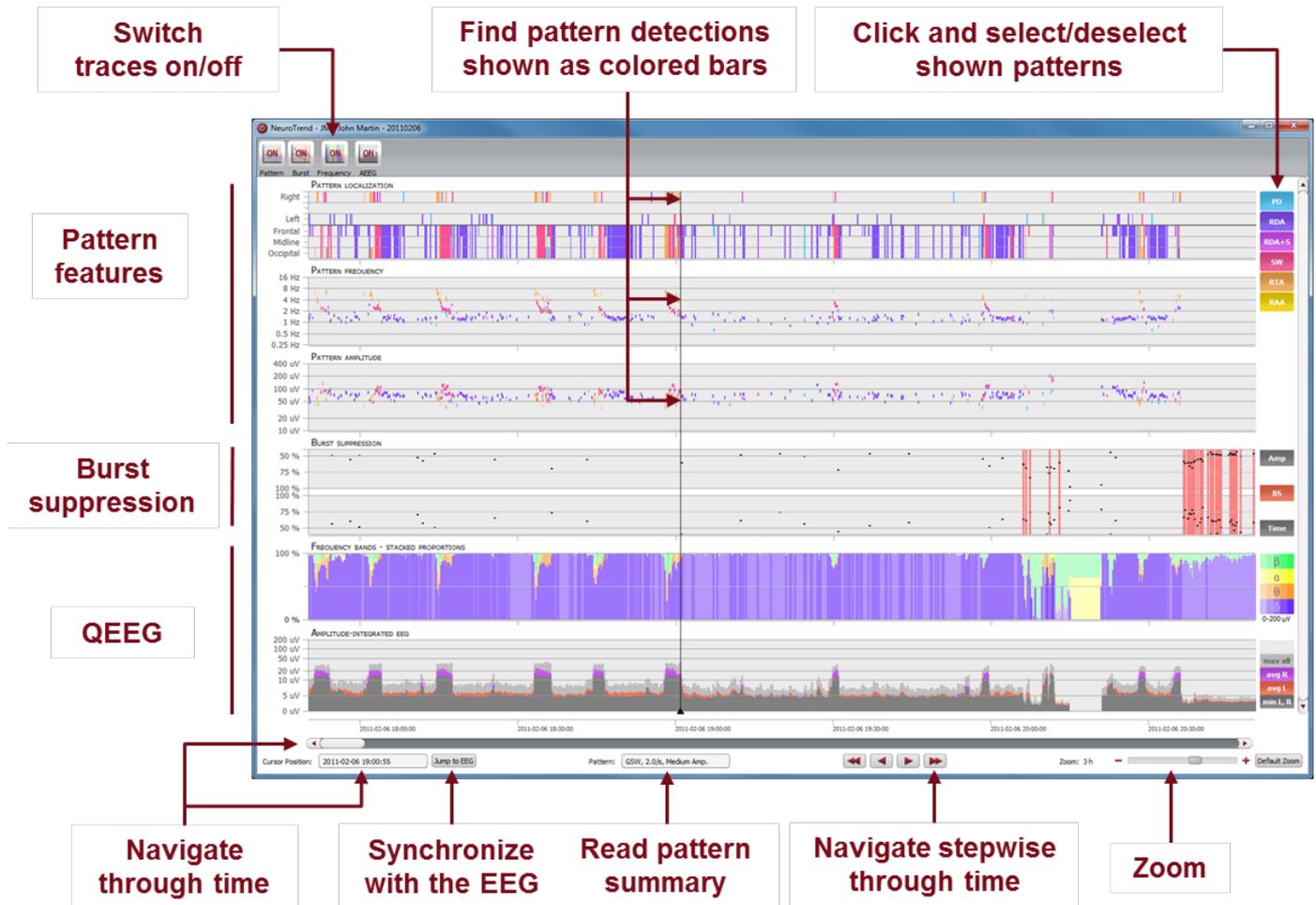
Jump to the moment of maximum activity

Adjust visualization settings

Start EpiSource and use all its functionalities:

- Choose between seizure mode (seizure markers: 1s-5min) and spike mode (spike markers: 20-500ms).
- See the results of the source localization as color-coded overlay to the structural MRI. High activity is red. Low activity is blue.
- Review the results in the three 2D slices (Coronal, Sagittal and Axial).
- Navigate through the slices using the controls or the mouse.
- Review the results in the 3D visualization.
- Zoom in and zoom out using the mouse on the screen.
- Step through the results in time or just jump to the time point of maximum activity.
- Adjust several visualization settings.
- Export the results as images.

NeuroTrend



Start NeuroTrend and use all its functionalities:

- Find color coded detections of five different patterns (PD,RDA,RDA+S,SW,RTA,RAA). One colored bar is one pattern.
- Read localization, frequency and amplitude of the detected patterns in the three higher panels.
- Find burst suppressions and attenuations.
- See the amplitude-integrated EEG and the proportion of the frequencies as continuous measures on the two lower panels.
- Navigate in time.
- Zoom in and zoom out using the mouse wheel.
- Synchronize with EEG shown in the encevis viewer.
- Select or deselect patterns that you want to have shown or hidden.
- Switch on/off the traces you want to have displayed.