



Quick Start Guide

encevis 1.7

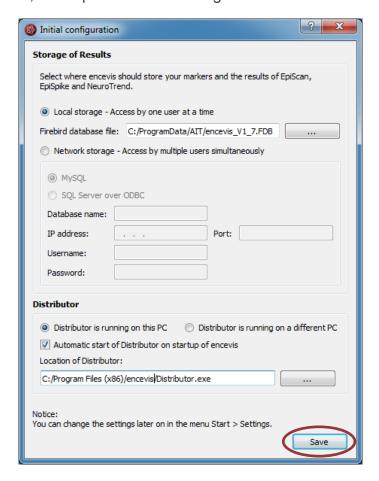




Installation

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

- 1. Start the **encevisInstaller**, this will guide you through the installation process.
- Start encevis.
- 3. The initial configuration window will pop up.
- 4. Press "Save", to keep the default settings.

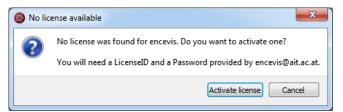




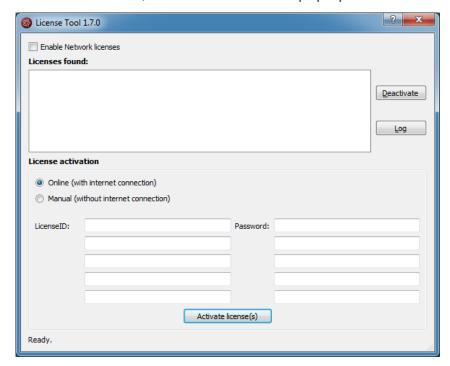


License activation

- 1. Start encevis.
- 2. Press the button "Open EEG", the following window will pop up:



3. Press "Activate license", the License Tool will pop up.

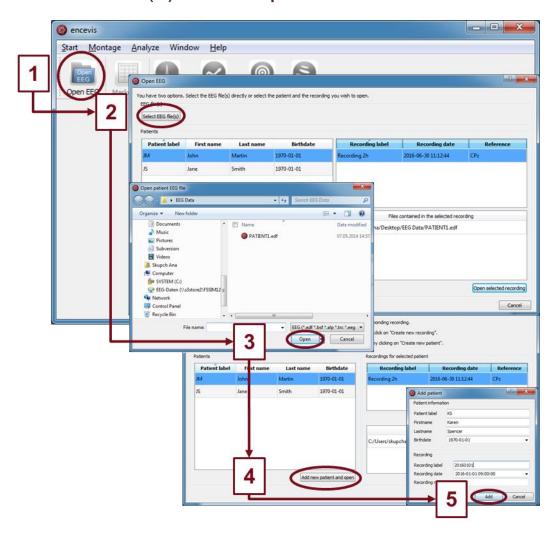


- 4. If you are connected to the internet, select "Online" as activation mode. Otherwise, select "Manual" and contact your distributor in order to get the keys for the manual activation.
- 5. Enter the LicenselD and Password.
- 6. Press "Activate license(s)".





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, Press "Add 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 used for the EEG recording. Press "Add".

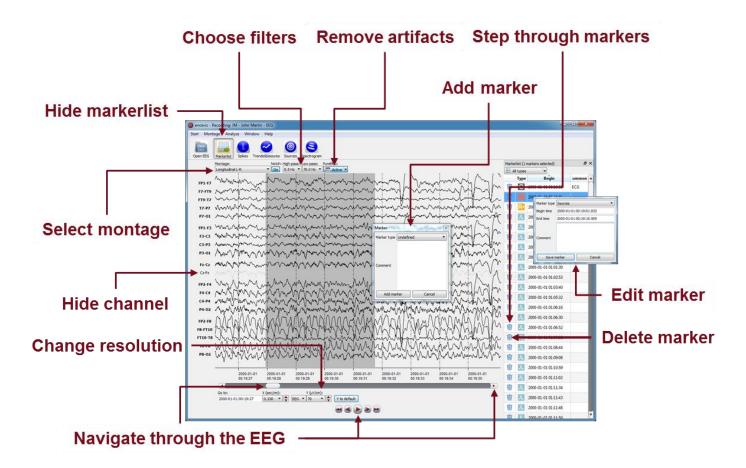


More information can be found under the menu point Help > encevis Help.





Review EEG



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 in the marker list and can be reviewed anytime.
- Start automatic EEG analysis.



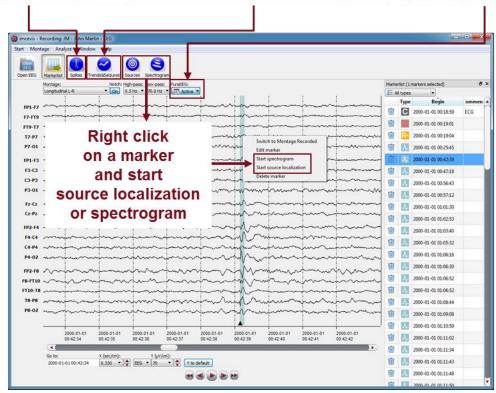
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Start automatic EEG analysis

Start spike detection Start trends and seizure detection Start artifact reduction



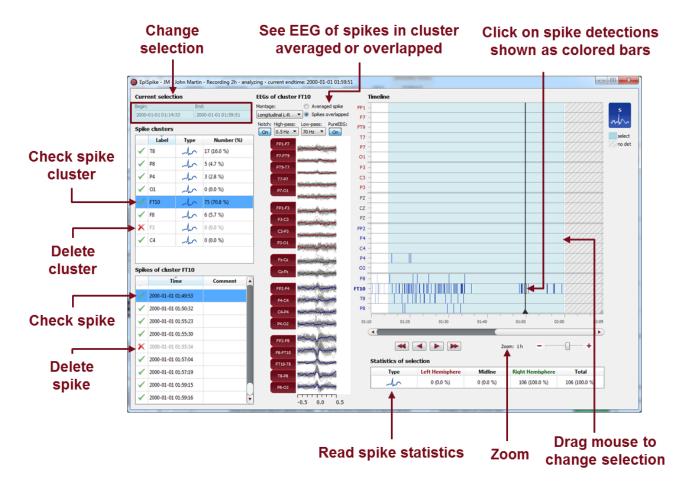
encevis offers you a series of automatic EEG analysis tools:

- Spikes: the automatic spike detection detects spikes, clusters them by localization and visualizes the results for easy review in the EpiSpike window.
- Trends&Seizures: the advanced EEG trending calculates automatic detection of seizures, of rhythmic patterns, qEEG, aEEG, the heart rate and visualizes the results in the NeuroTrend window.
- Seizure detection: the detected seizures are shown in the marker list and have four different types: rhythmic, rhythmic+, tonic and tachycardia.
- Sources: you can easily start the source localization by right-clicking on a marker in the EEG traces. The results are shown in the EpiSource window.
- Spectrogram: you can easily start a time-frequency analysis by right-clicking on a marker in the EEG traces.





Spike detection - EpiSpike



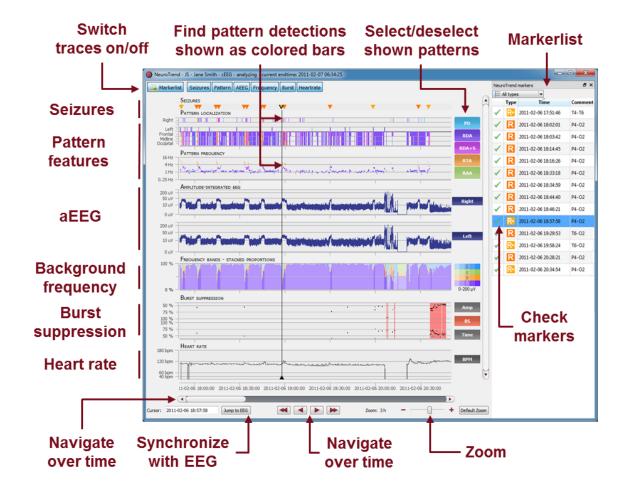
Start the spike detection EpiSpike and use all its functionalities:

- 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 wheel.
- 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.





Trends and Seizures - NeuroTrend



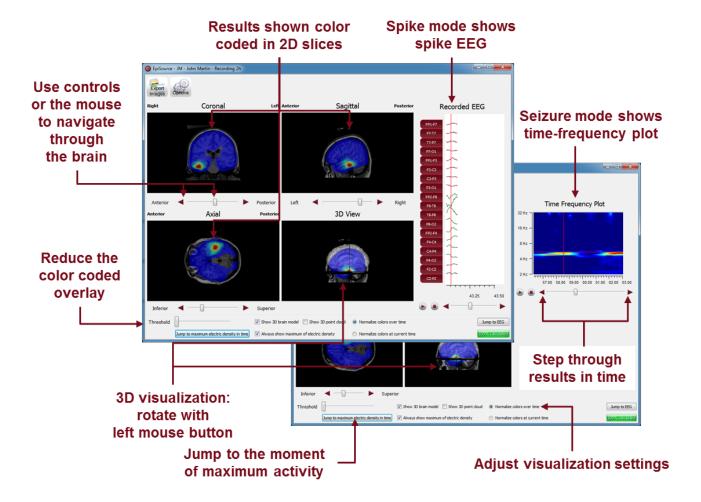
Start the trends and the seizure detection NeuroTrend and use all its functionalities:

- Find color-coded detection of four types of seizures: rhythmic, rhythmic +, tachycardia and tonic.
- Find the detection of five different patterns: periodic discharges (PD), rhythmic delta activity (RDA), rhythmic delta activity + spikes (RDA+S), rhythmic theta activity (RTA), rhythmic alpha activity (RAA).
- Read localization and frequency of the detected patterns.
- See the amplitude-integrated EEG and the proportion of the frequencies as continuous measures.
- Find burst suppressions and attenuations.
- Read the heart rate based on the ECG.
- Navigate in time and synchronize with the EEG shown in the EEG viewer.
- Zoom in and zoom out using the mouse wheel.
- Select or deselect patterns that you want to have shown or hidden.
- Switch on/off the traces you want to have displayed.





Source localization - EpiSource



Start the source localization 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.