

Seizure start and end marking on a rat EEG.

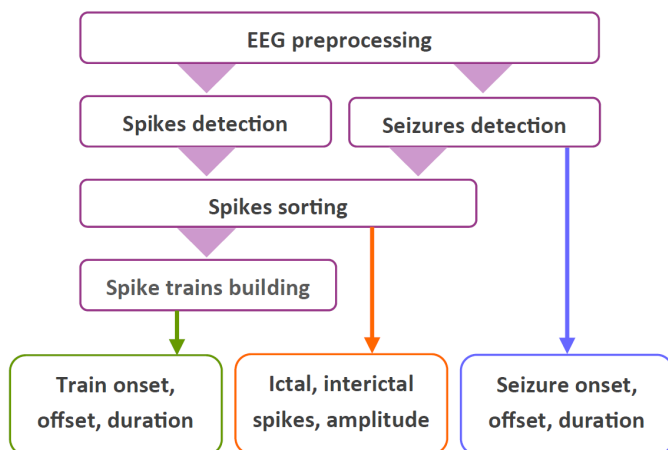
KEY FEATURES

- Real-time seizure detection
- Real-time spike and spike train detection
- Customizable detection parameters
- Baseline indicator for easy interpretation
- Fit for multiple species
- Synchronization with video
- GLP and 21 CFR Part 11 compliance

SEIZURES, SPIKES & SPIKE TRAINS

Assessment of **pro-convulsant risk** remains an important aspect of safety pharmacology in order to reduce drug attrition at a late stage and avoid, at the end, withdrawal from the market.

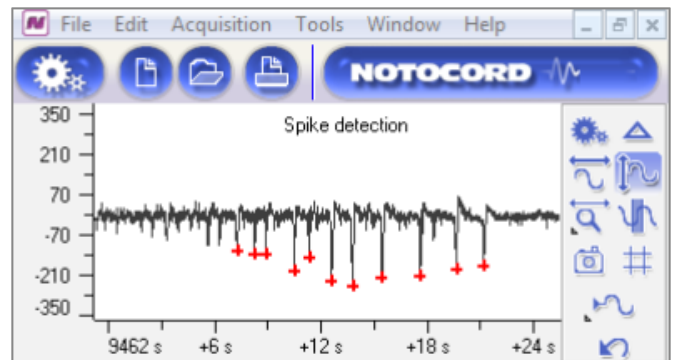
NOTOCORD® has designed **SZR30a**, a high-performance automated **detector that discriminates seizures, spikes and spike trains**.



HIGH-SENSITIVITY ANALYSIS

Our main objective is to provide a highly-sensitive and robust analyzer that processes either in **real-time** or offline and is suitable for multiple species.

The interface is designed to be user-friendly, containing only key parameters for ease-of-use, and providing a **fast learning curve**.



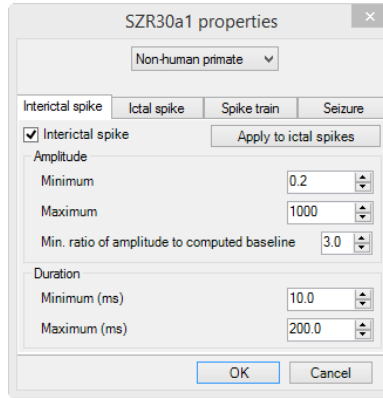
Spike detection on a rat EEG.

Applications include:

- Epilepsy studies
- Safety Pharmacology for Central Nervous System

CUSTOMIZED DETECTION

Species presets are convenient to built your analysis, yet different settings are available to personalize the detections by selecting all events or seizure, spike and spike trains separately.



SZR30a properties window

EASY EDITING AND VALIDATION WITH RME10s

RME10s, our mark editor for seizure, is designed for manual editing and validation of seizure marks generated with SZR30a, either on the whole signal or on user defined zones. Marks are quickly imported, moved, inserted, accepted or rejected.

VIDEO SYNCHRONIZATION

Monitoring animal behavior helps identify periods during which physiological signals are correlated directly to drug effects and reject artifacts or non-specific behaviors. Our video acquisition server VSH10x allows simultaneous acquisition of up to 4 or 8 video channels, along with any other type of signals, including EEG analyzed with SZR30a.

+ Related products

CTD60a/v	Universal chart display / with video
EEG10a	Spectral analysis of electroencephalogram
IRF10a	Infinite impulse response filter
NVC31a	EMG activity analyzer
RME10s	Reference mark editor for seizure
VSH10a/b	4-/8- channel video acquisition server

SZR30a

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Working in a GLP environment?

21 CFR Part 11 compliance is achieved via our AccessManager security application, activating a highly secure and compliant Audit Trail.



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