

## RecView 1.4 (requires .NET 4)

### New Features:

#### Bridge tool:

This new tool detects gel bridges and can help to improve your data quality in high density scalp EEG recordings.

*A very helpful new feature when preparing EEG recordings with a lot of channels is the new Bridge tool: It detects gel bridges right before starting your actual recording. This can help you improve your data quality as well as teach you how to prepare high density scalp EEG recordings and keep you from using too much gel.*

#### Linear Derivation:

This filter allows you to create new channels from linear combinations of existing channels. A coefficient matrix can be defined manually or loaded from text files, for example ICA Matrices as exported from the Analyzer 2 ICA transformation.

*The new Linear Derivation module is an analogue to the BrainVision Analyzer 2 Linear Derivation transformation. It allows you to create new channels from linear combinations of existing channels. Moreover it's possible to load coefficient matrices from text files, for example ICA Matrices generated by the Brain Vision Analyzer Independent Component Analysis. That means that once you have calculated your ICA matrix offline, it can be used to calculate IC's online.*

#### Level Trigger:

A new filter for setting threshold and peak markers onto channels and sending corresponding configurable signals to your PC's parallel port.

*The new Level Trigger filter is an online version of the Level Trigger in Analyzer 2. The Level Trigger transform allows you to set threshold markers on a channel or send configurable TTL signals to the LPT port if voltage limits are violated.*

#### Band Power Trigger:

A new filter sending configurable signals to your PC's parallel port depending on the power of a configurable frequency band.

*The new Band power trigger filter can be used to send TTL signals to your PC's LPT port depending on the power of a configurable frequency band. It can for example be used to measure the Alpha -power level and thus relaxation of a test subject and use the LPT signals to trigger a feedback application.*

#### R-Peak Trigger:

A new filter for detecting R-Peaks in EEG data recorded outside of the MR And sends signals to the parallel port if R-Peaks are detected.

*The R-Peak Trigger is a module for detecting the R-Peaks in ECG data. TTL signals can be sent to the LPT Port and Markers can be set into the data as R-Peaks are detected. It is using a fast peak detection algorithm which is suitable for ECG data recorded outside of the fMRI only.*

#### Average Filter:

Rectification and weighted averaging is now possible.

*The new version of the average filter contains the possibilities of rectifying data and of calculating the weighted average of data blocks. The user can choose between equal, triangular and exponential weighting functions.*

#### FFT:

New configurable windowing functions.

*Furthermore the FFT filter has been equipped with new windowing functions to help you explore the spectral properties of your online data better.*