

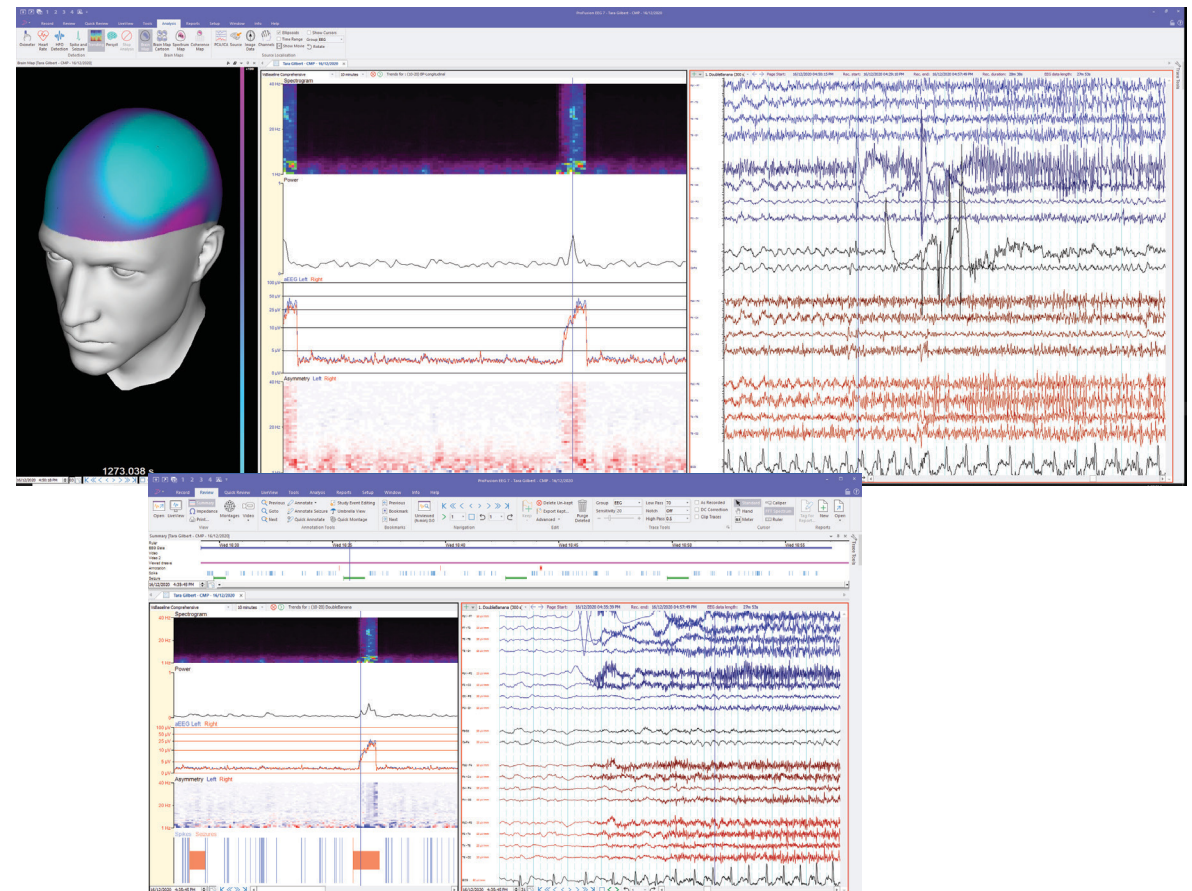
Highlights - *What's NEW in Profusion EEG 7™*

1. Trending and Spike and Seizure Detection.

DEEG trending and Spike and Seizure detection can be performed real time during recording, or after recording.

Currently available trends are:

- **FFT Spectrogram** - it shows the FFT (Fast Fourier Transform) frequency components of the chosen EEG channels.
- **aEEG** - (amplitude-integrated EEG) trend shows the amplitude of the filtered and rectified chosen EEG channels.
- **Power Ratio** - it shows the ratio of different bands of frequencies.
- **Asymmetry** - (a relative asymmetry spectrogram trend) displays a relative comparison of the power values of EEG data of the left and right sides for each FFT frequency bin.
- **Spikes and Seizures** can be configured to be shown in the trend window and the summary bar.

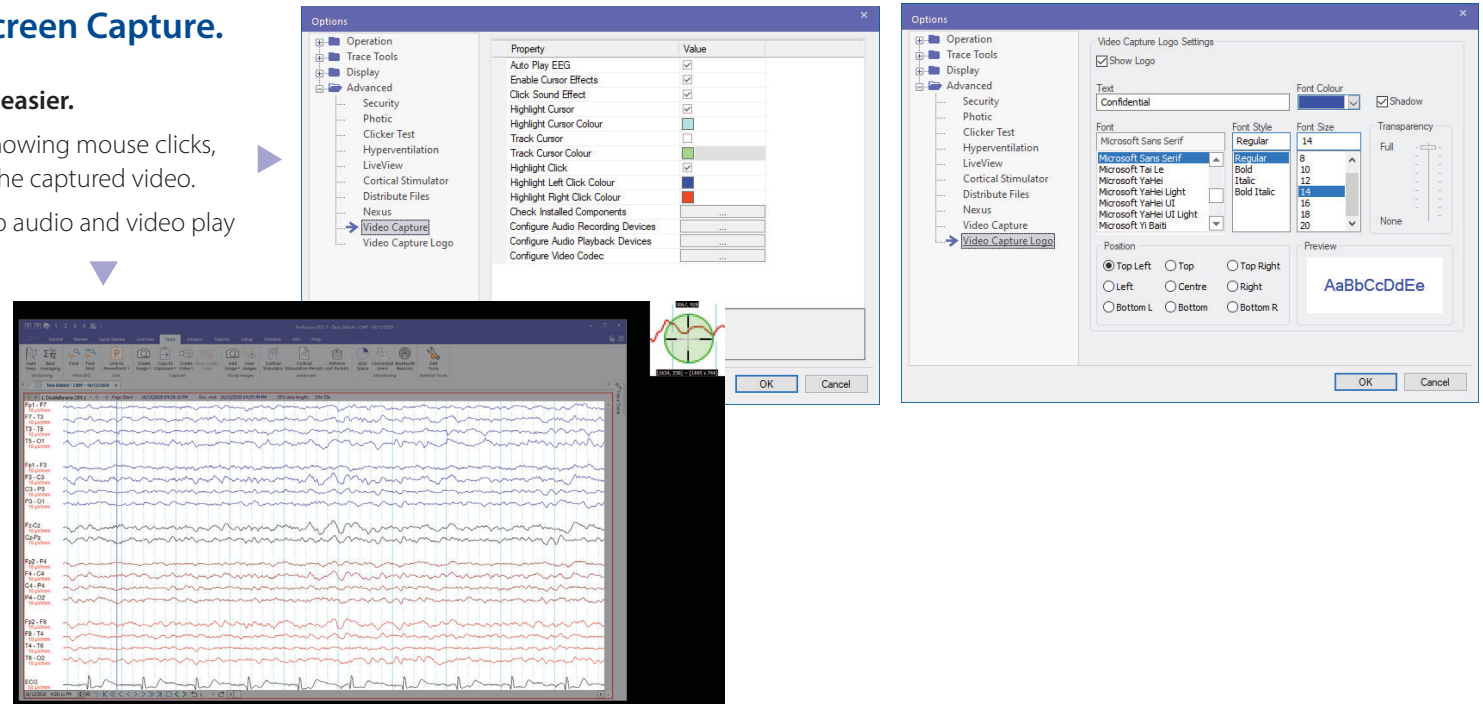


2. Improved Video and Screen Capture.

Selecting a window or region is easier.

There are many new options for showing mouse clicks, mouse movements, and logos in the captured video.

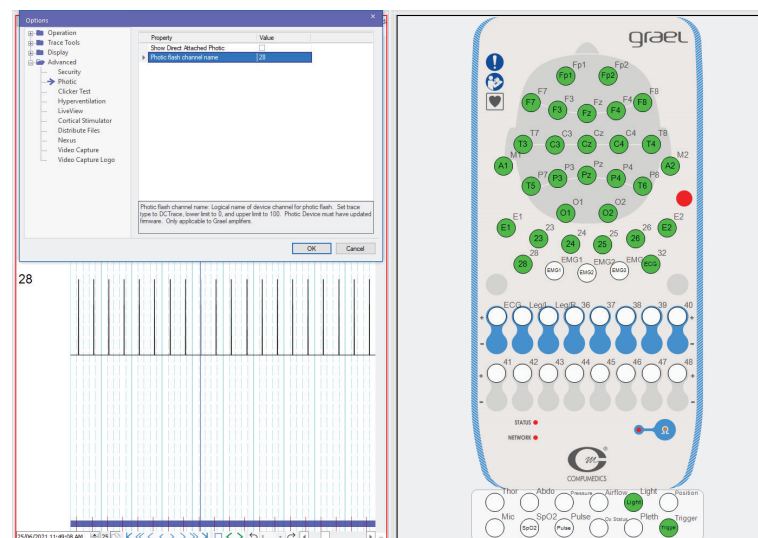
Enhancements have been made to audio and video play speed of the captured video.



3. Accurate Photic Flash Marks.

It is now possible to have very accurate photic flash marks on the EEG, by displaying them on a user selected EEG channel. 1, 2

- 1) The photic device must have updated firmware.
- 2) This is only applicable to Graef™ amplifiers.

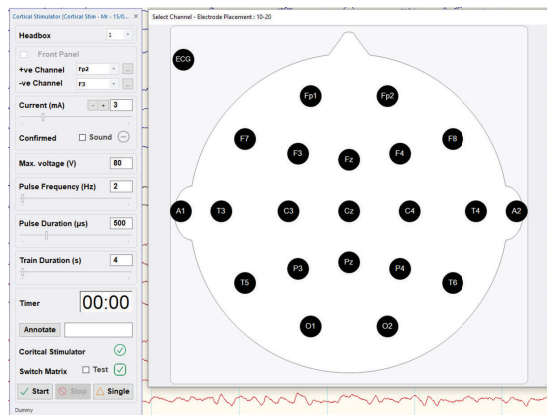


4. Cortical Stimulator Results

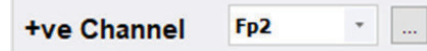
During a cortical stimulation session each stimulation is automatically added to a results sheet. The electrode names, date, frequency, intensity, shock duration and stim duration are added automatically. The operator can edit the columns: **'Session'**, **'Functional Task'**, **'Clinical Response'**, **'After DC'**, and **'Seizure'**.

Typing an electrode name in the search field highlights it in the list and the head diagram. Manual selection of electrodes on the head automatically updates the appropriate rows in the list and vice versa.

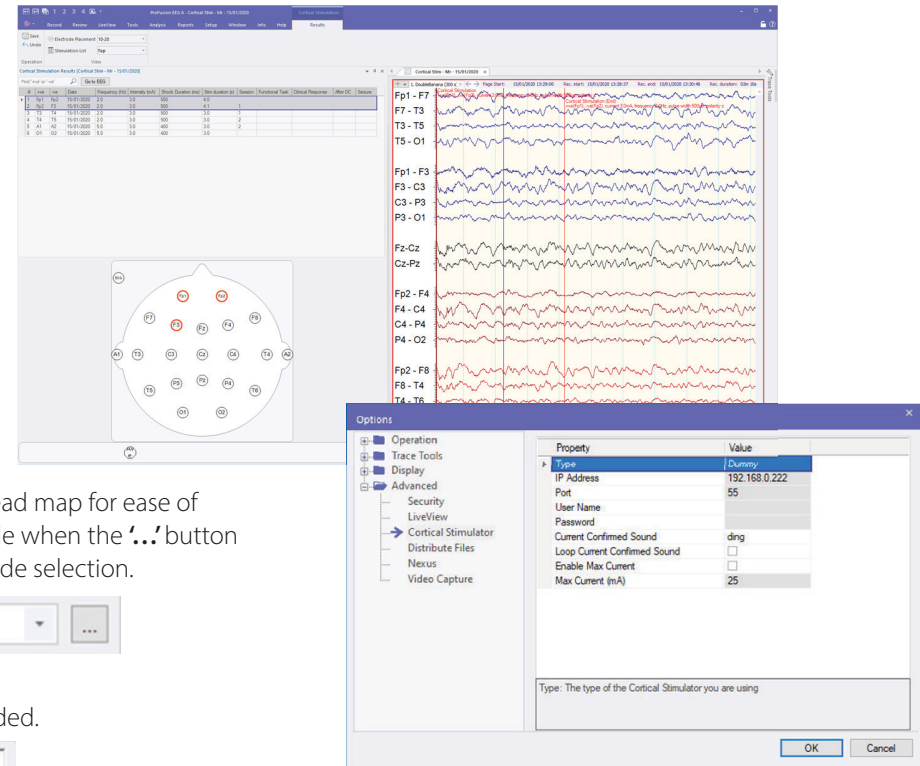
There is also a new report code which when used will display the list of stimulations in a table.



There is now an electrode head map for ease of electrode selection, accessible when the '...' button is pressed next to the electrode selection.



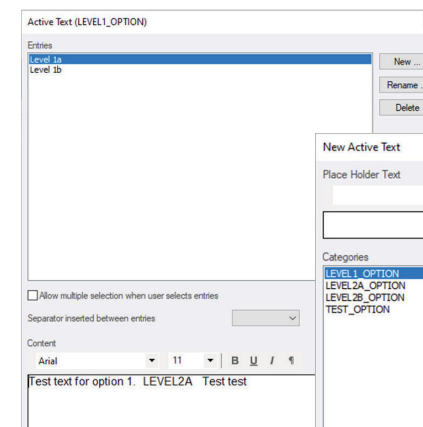
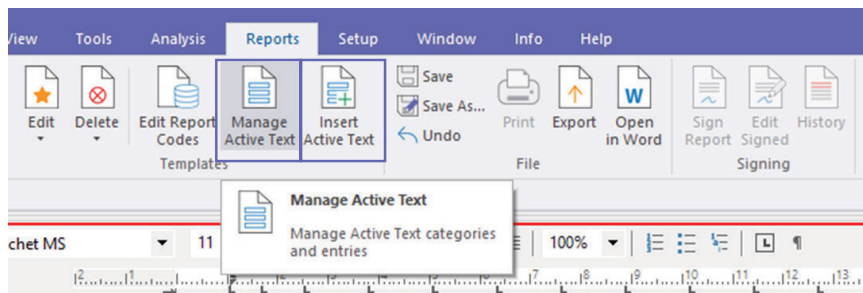
A timer display has been added.



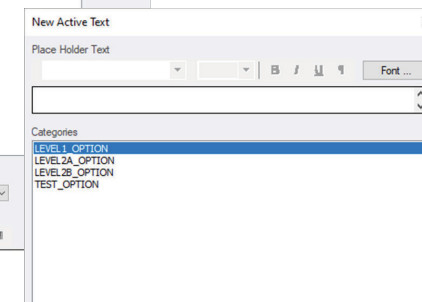
And there is now a **"dummy" Cortical Stimulator device** which can be used for demonstration purposes.

5. Report Active Text

When editing a report, you can now easily manage or insert **Active Text**.

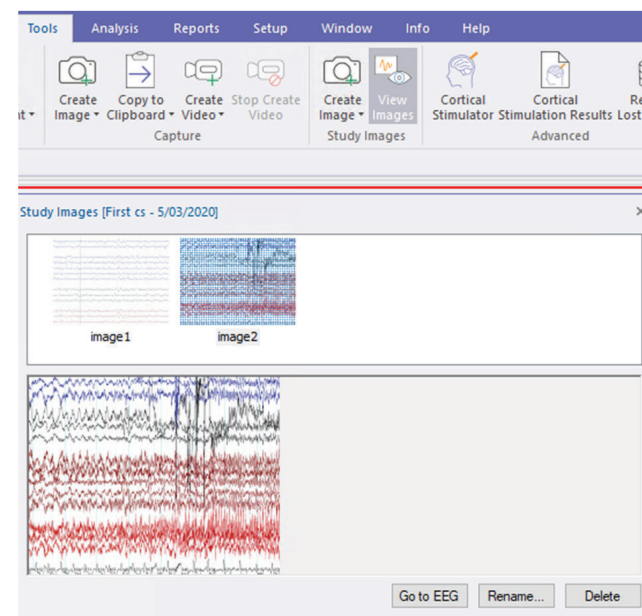
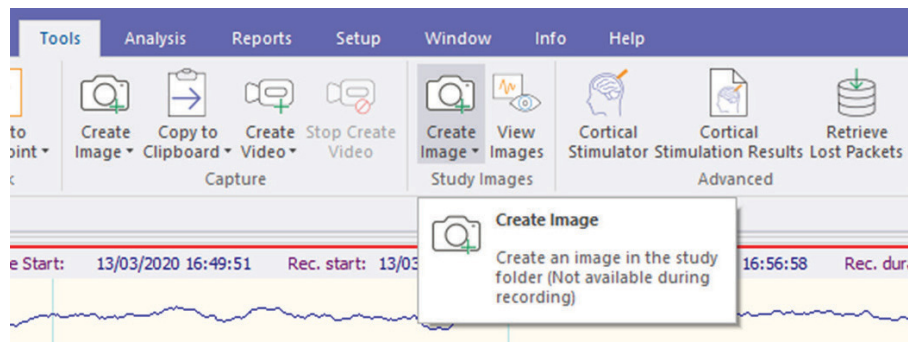


After selecting **'Manage'** or **'Insert'**, in the menu, select **'Edit'** for the dialog box.

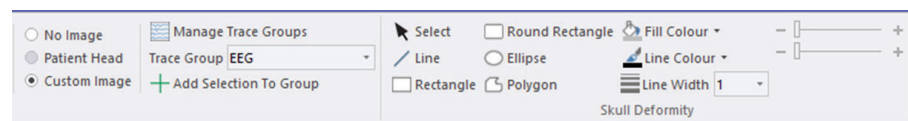


6. Study Images

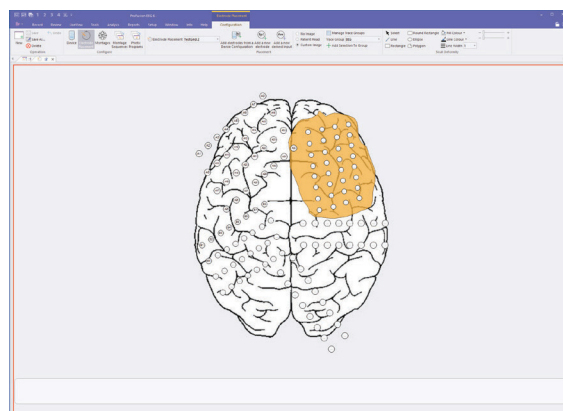
You can create and view images associated with the study. You can also jump to the location in the study associated with the image of the EEG. There is also a new report code for adding the screen captures.



7. Marking Skull Deformation

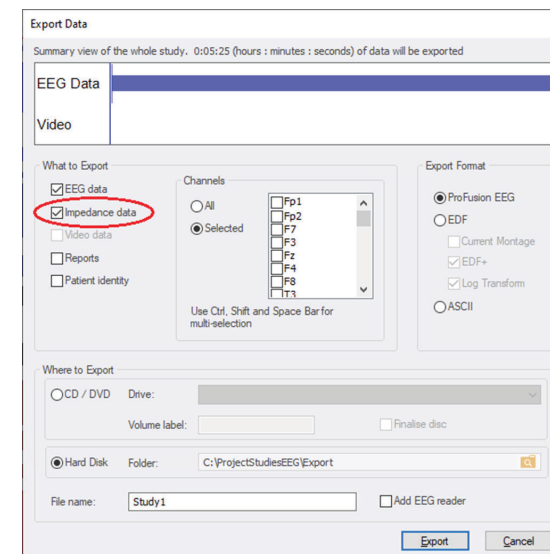


Added ability to draw skull deformation on the electrode placement head image.



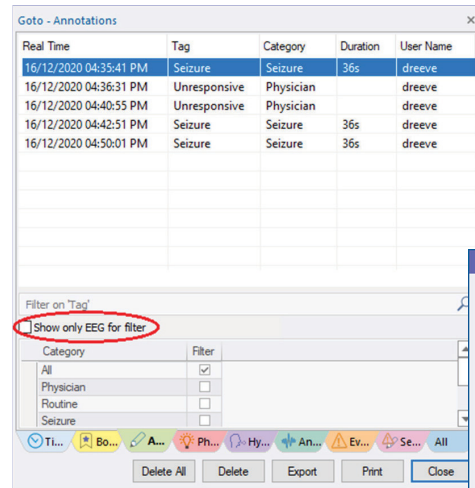
8. Export Impedance Data

There is now an option to export impedance data.



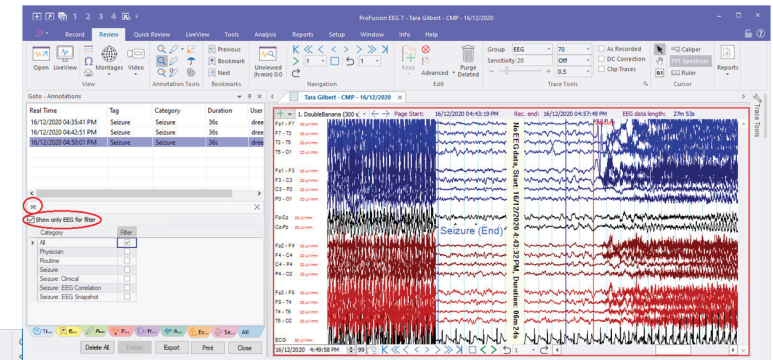
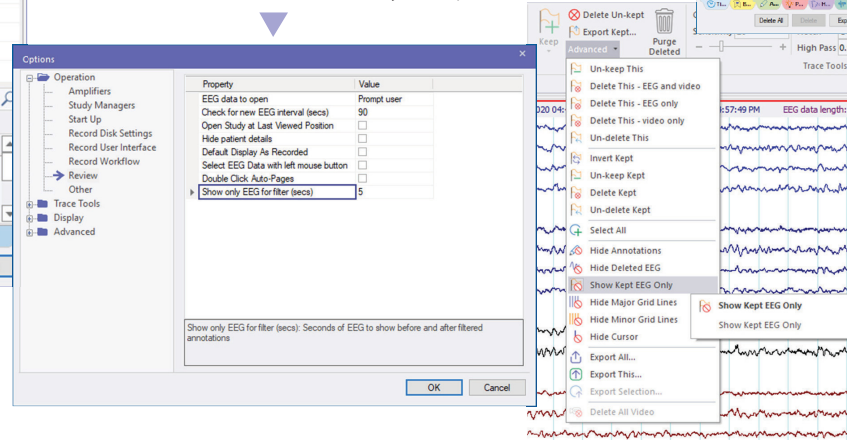
9. "Show only EEG for filter"

Added 'Show only EEG for filter' to Annotation and All goto tabs.



For example, if you just wanted to look at the EEG that has been marked 'seizure', you can type 'se' (circled red) to show only 'Seizure' annotations, and then check 'Show only EEG for filter'. Then, when you page through the EEG, any EEG data not marked as 'Seizure' is shown as a (pale brown) bar.

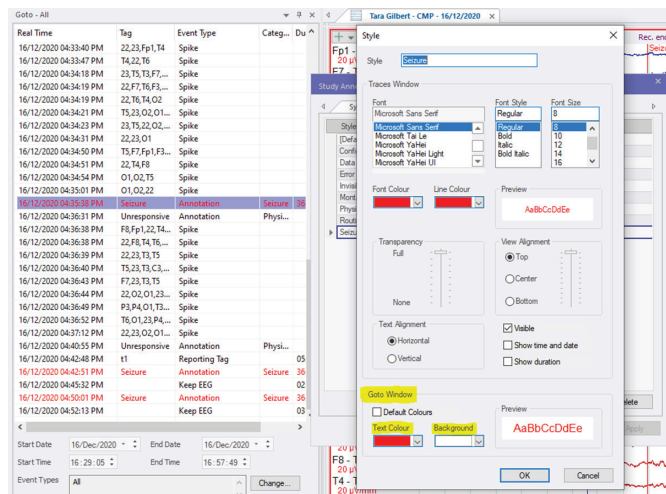
The amount of EEG data shown surrounding the filtered annotations can be set by an option.



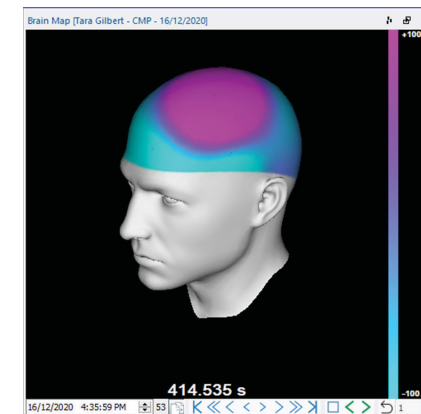
There is a similar command under the Advanced menu for showing kept EEG only.

10. Colour events in Goto window according to defined style

You can now customise the text colour and background of items in the Goto window.



11. New 3D head for brain map

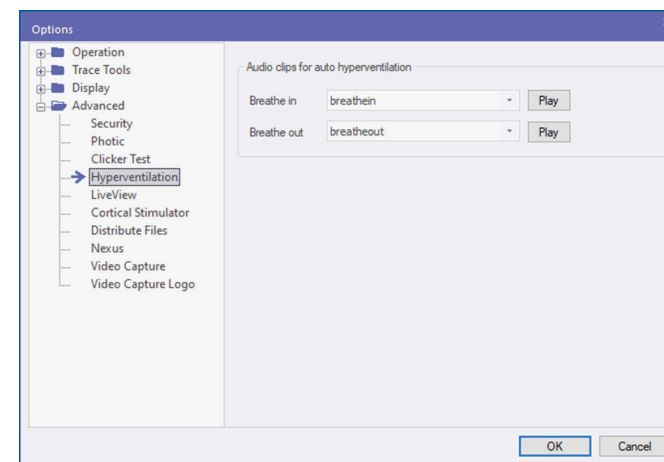
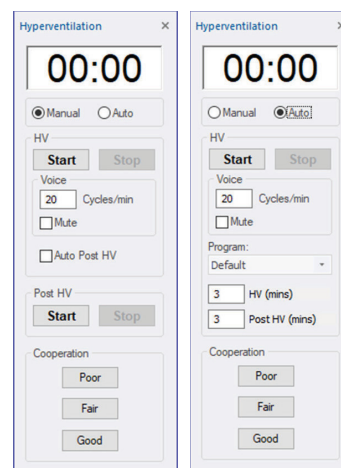
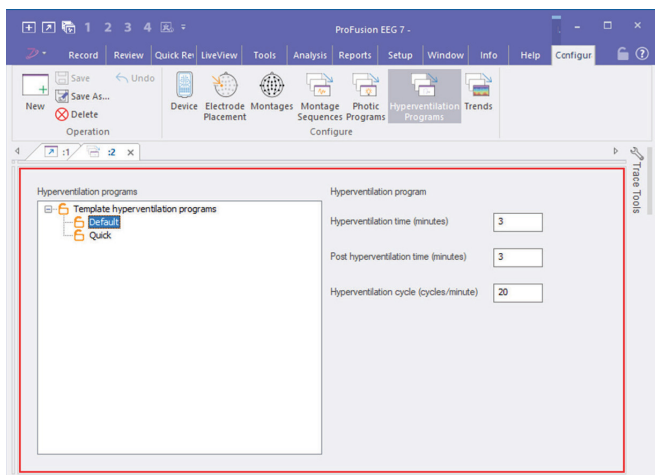


12. Hyperventilation programs

You can create hyperventilation programs (in a similar way you create photic programs), specifying the hyperventilation time, the post hyperventilation time, and the breathing rate (hyperventilation cycle).

During recording you can select the pre-stored program or run manually (similar to photic programs).

There is an option for the audio clip of **'breathe in'** and **'breathe out'**.



Other Highlights:

- Option for hiding patient details
- Impedance of Ref and differential channels is now shown
- Added transparency for kept regions
- Added associated Trace Label to the Calliper Window and Calliper tooltip
- Added option for hiding Direct Attached Photic
- Added "(D)" in front of distributed files when their names are shown to the user.
- Added support for the new amplifier Okti 64

To find out more about this product, contact your local Compumedics representative.

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