



compumedics
profusion EEG
version 7

Highlights of Profusion™ EEG 7

Developed in collaboration with leading EEG laboratories and Epilepsy monitoring units across the world Compumedics' Profusion EEG software features a complete set of tools for efficient recording and review of EEG - presented in a modern and context sensitive user interface.

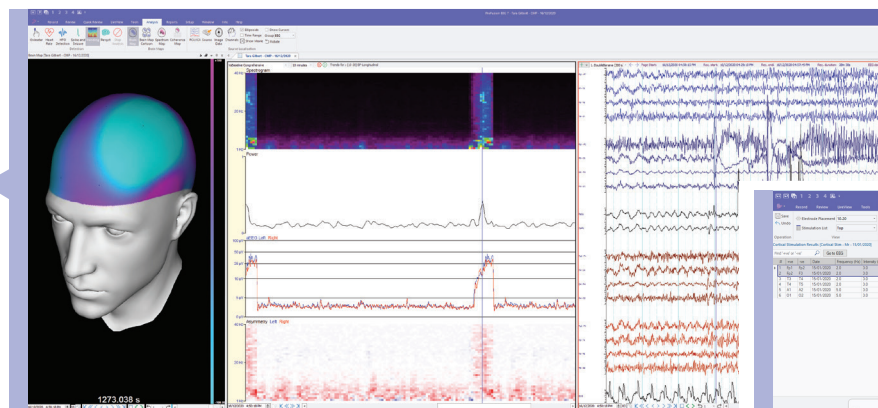
The NEW Profusion EEG 7 software now offers even more at your fingertips!

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. "Show only EEG for filter"

Quickly isolate important marked data like **seizures** by checking the "show only EEG for filter" feature added in the **Annotation** and **Goto** tabs. Simply enter the name of the marked data and all instances will be highlighted. The amount of EEG data shown surrounding the filtered annotations can be set by an option.

3. Study Images

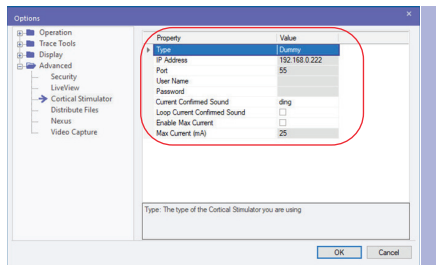
Easily create and view images associated with the study with the new 'Create Image' and 'View Image' tools. You can also jump to the location in the study associated with the image of the EEG. There is also a new report code for adding the screen captures.

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

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'.

Easily highlight electrode data in the search field or the head diagram which are interactive. Manual selection of electrodes on the head automatically updates the appropriate rows in the list and vice versa. The new report code will display the list of stimulations in a table.

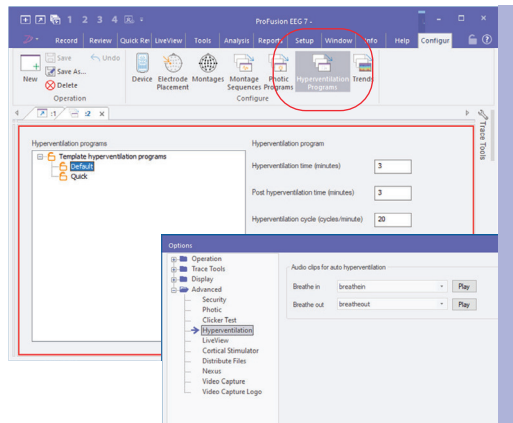


There is now a “dummy” Cortical Stimulator device which can be used for demonstration and training purposes.

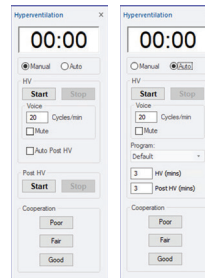
5. Hyperventilation programs

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’.

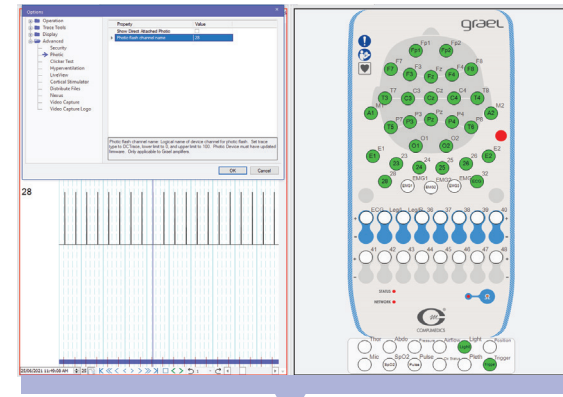
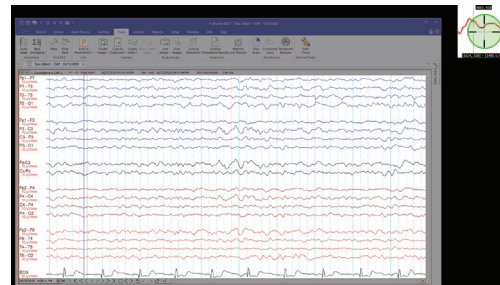
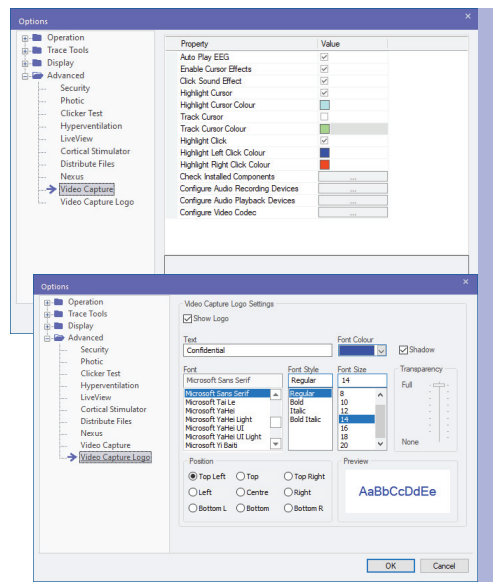


6. Improved Video and Screen Capture

Selecting a window or region is now even 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.



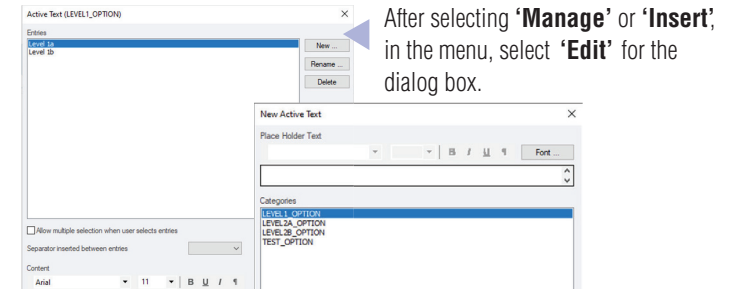
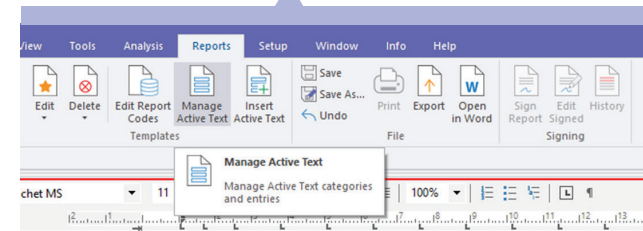
7. Increased Accuracy for Photic marks

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}

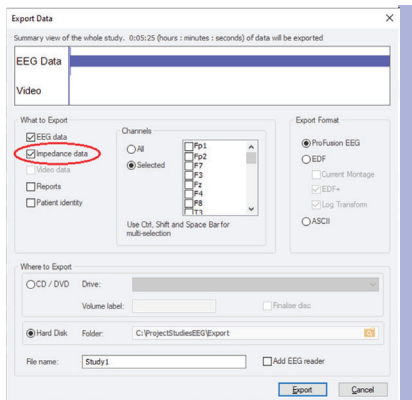
- 1 The photic device must have updated firmware.
- 2 This is only applicable to Grael™ amplifiers.

8. 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.



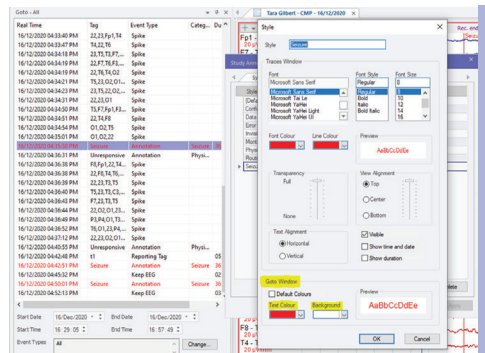
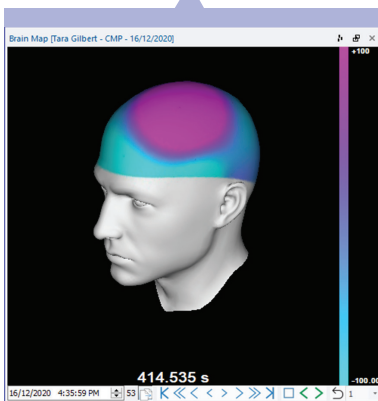
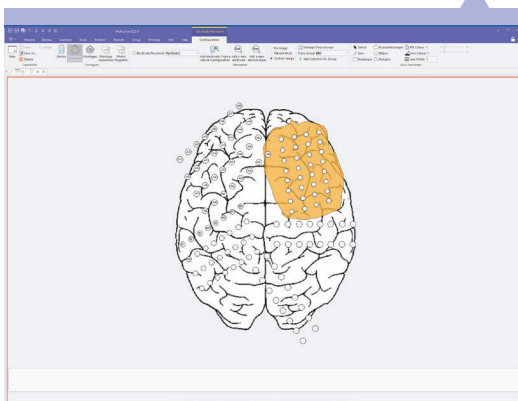
9. Export Impedance Data

There is now an option to export impedance data.

10. Marking Skull Deformation

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

11. New 3D head for Brain Map

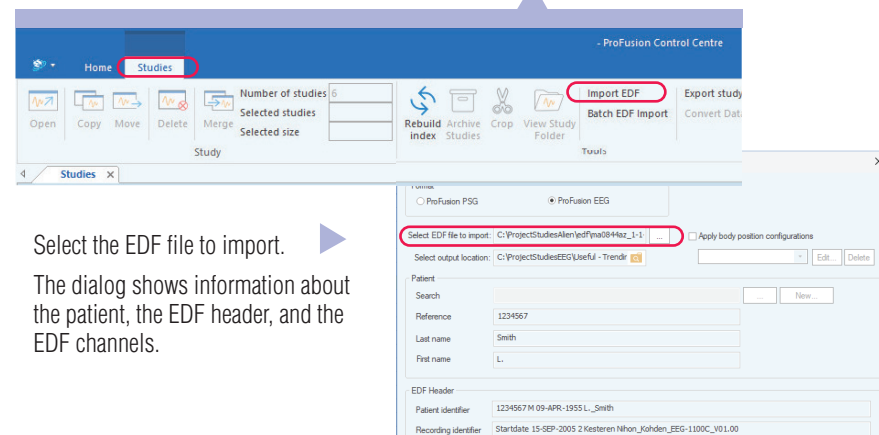


12. Colour events in Goto window according to defined style

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

13. Importing EDF and EDF+ studies.

Easily import **EDF and EDF+ studies** by selecting the 'Import EDF' button in 'Studies' menu of the **Profusion Control Centre**.



Select the EDF file to import.

The dialog shows information about the patient, the EDF header, and the EDF channels.



profusion neXus 360™

Built on the proven Profusion neXus™ platform with more than 15 years of customer use and thousands of users, Profusion neXus 360™ offers the full functionality of Profusion neXus and more, in a **full web-based interface**.

Study Management and Profusion neXus integration

Integrate Profusion EEG 7 with the **Profusion neXus lab management system** to optimize workflow and enhance efficiency in any diagnostic or research laboratory. Profusion neXus is extremely flexible and securely manages and helps control data and workflow in any laboratory environment.



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