



Exporting Data from SmartEP

Introduction

Certain users, most commonly researchers, may find at some point that they need to port their data to a different program or format, for analysis or storage. SmartEP data is stored in an encrypted proprietary format in the directory that corresponds to each patient; however, the data can be exported to a text file from the SmartEP program.

Locating and Exporting the Data

To find the EP data that you want to export, do the following:

1. From the Patient Menu on SmartEP, select **Open** to view the patient list.
2. Find the patient in the list; then open the patient file by clicking **OK** twice.
3. Click on **Data > Load File** to open individual files, or **Report > Load Report** to recall a previously saved report.
4. To save one recording to ASCII, select the recording by clicking on its handle, then select **Data > Save File as ASCII**. To save all the recordings on the page to a single file, click on **Data > Save Page as ASCII**.
5. From the **Save File** window, select the location and the name you wish to give the saved file.

Note that when saving multiple files, data point time values and peak information will not be exported, this information is only saved when exporting one recording at a time. Time values can be calculated from the sampling period and the zero time position.

File Contents

The headers of the ASCII file contain:

- Patient Identifier and File Name,
- Ear of acquisition,
- Channel used (1 = A, 2 = B, etc)
- Intensity and Stimulus Rate,

- Stimulus Mode, (0 = Alternating, 1 = Rarefaction, 2 = Condensation)
- Number of sweeps and of artifacts,
- Sampling period
- Amplifier Gain, Low Pass, High Pass and notch filter settings.
- Stimulus (1 = Click, 2 = Pure Tone, 100 = File)
- Stimulus Frequency and Duration (for Tones only)
- Masking Level if any
- Stimulation Point or Zero Time
- Peak information (for single recordings only)

The table contains the following data:

- Data Point Number: from 1 to 1024
- Data Point (ms): corresponding timeline values (for single recordings only).
- Average: hardware A/D converter value
- Average (uV): its value equivalency in microvolts.
- Buffer1 and Buffer1 (uV): the rarefaction component values.
- Buffer2 and Buffer2 (uV): condensation component values.

Importing the Data

To import the data into Microsoft Excel®:

1. Open Excel® then click on File > Open
2. Select the text file format in the “Files of Type” field; then locate and choose the text file copy of the DP file and open.
3. When the text import wizard opens, select “Delimited” and click on Next.
4. Check the “comma” option and click Finish.

Some versions of Excel may work differently. Other spreadsheet programs may have the same import functions. For importing data into other programs please consult the user's manual for that program. Excel® is a registered trademark of Microsoft Corporation.