

# Access Your Electrophysiology Data – Quickly and Easily

## ACCESS PARTS OF DATA RELEVANT TO YOUR ANALYSIS

The Electrophysiology Module provides a preview of your data. You can select only the part of the data of interest for your analysis. The module supports continuous and episodic data recording. Electrophysiology data files contain considerable information useful for analysis. The module displays the metadata so you can directly access it. You can even use the information to automate analysis, determining the relationship between stimulus and response. Using the Section dialog, you can explicitly specify numerically the section to be imported.

## MINIMIZE ERRORS BY GETTING THE RIGHT DATA

Using this module, you do not have to retype scaling factors, time scales, or stimulus information, reducing the chances of making mistakes. Plus, in addition to the scaled acquired data and the stimulus pulse, the module provides information on the file structure, including file information like the date and time of recording, file comments, channel information, as well as file specific information. For example, in Axon Instruments ABF files, you can obtain each tag. For HEKA elektronik Pulse files, you can obtain information from the solution database. The Module also provides column labels that help identify the data. All this information dramatically reduces the chances for error and allows you work with greater speed and accuracy while collaborating with colleagues or working on your own.

## EASILY AUTOMATE COMMON ANALYSIS AND GRAPHING TASKS

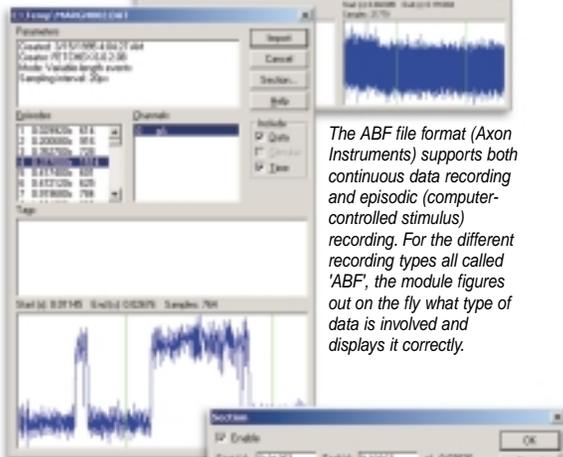
Using the scripting interface to the module, you can write macros in your analysis program to read, analyze and graph your data. You even have access to the stimulus protocol when analyzing recordings based on computer stimulation. The script interface is extensive. You can use it to

simply read data, or you can use it to automatically extract the information you need for data analysis. Once you read your data, you can start analyzing and graphing your data with award-winning SigmaPlot in no time. You can even exchange data with collaborators without having to use the same data acquisition system.

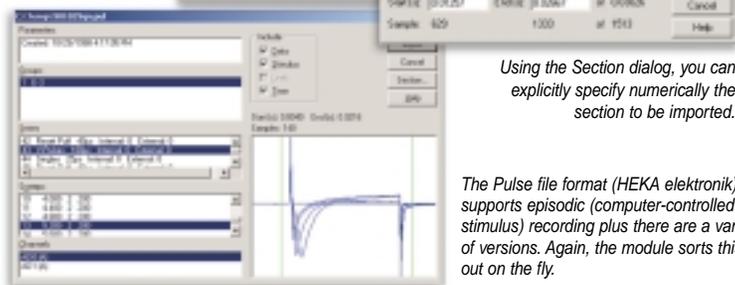
*The Acquire file format (Bruyton) supports continuous data recording and computer-controlled experiments.*



*The ABF file format (Axon Instruments) supports both continuous data recording and episodic (computer-controlled stimulus) recording. For the different recording types all called 'ABF', the module figures out on the fly what type of data is involved and displays it correctly.*



*Using the Section dialog, you can explicitly specify numerically the section to be imported.*



*The Pulse file format (HEKA elektronik) supports episodic (computer-controlled stimulus) recording plus there are a variety of versions. Again, the module sorts this out on the fly.*

## GETTING STARTED

The Electrophysiology Module provides on-line HTML Help. To use scripting, a Programmers Reference manual is supplied in Adobe Acrobat Format.

## SPECIFICATIONS

### File Formats

- Axon Instruments ABF files supported, pClamp 6 and later plus AxoScope  
*Tested with Axotape files, but not guaranteed to read them*
- Bruyton Acquire files
- HEKA elektronik Pulse files supported, written by Pulse 7.2 or later

## SYSTEM REQUIREMENTS

SigmaPlot 2000

## NOTES

*The Electrophysiology Module is intended for graphing and analysis of recorded data. Not all features of all file formats are supported. For example, AxoScope voice tags cannot be retrieved using Electrophysiology Module.*

*The amount of RAM required depends on the data file format. Electrophysiology Module must be able to hold control information for the file being read in memory, as well as buffer data during reading. Generally 1MB to 4 MB of free memory is required.*

# Directly Read Your Electrophysiology Data into SigmaPlot 2000

Electrophysiology Module is an add-on to SigmaPlot 2000 that allows you to directly import your acquired data into SigmaPlot without the need for an additional data acquisition program. The module allows you to instantly read large data files into SigmaPlot so you can start analyzing and graphing your data in no time. Use the easy point-and-click interface to import your data from commonly used file formats including Axon Instruments ABF files, Bruxton Acquire format and HEKA elektronik's Pulse format. The file formats appear as a convenient drop down list in SigmaPlot.

## ANALYZE AND GRAPH YOUR DATA EASILY

Once you import your data into SigmaPlot, analyzing your data and creating exact graphs is intuitive and easy with SigmaPlot's MS-compatible award-winning interface, wizard technology and automation capabilities. You can get started and publish your results faster than you ever imagined. And, SigmaPlot provides the flexibility you need to create precise and compelling graphs. In fact, SigmaPlot's graphing flexibility has inspired the readers of Scientific Computing and Instrumentation to award SigmaPlot their prestigious Reader's Choice Award eight years running!



"SigmaPlot now sets the standard for technical graphing"

Dr. Barry Simon, Ph.D.  
PC Magazine, April 1999



# Electrophysiology Module

INSTANT ACCESS TO ELECTROPHYSIOLOGY DATA

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- ? SigmaScan® Pro, Powerful image analysis for your PC
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- ? TableCurve 2D, Automated curve fitting and equation discovery
- ? TableCurve 3D, Automated surface fitting and equation discovery
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