

New Feature

NEW: MULTI-AMPLIFIER MODE TWO IPA® OR DOUBLE IPA® DEVICES. UP TO 16 INPUT CHANNELS SUPPORTED.

SCOPE WINDOW PROVIDES INTUITIVE, EFFICIENT NAVIGATION THROUGH YOUR DATA

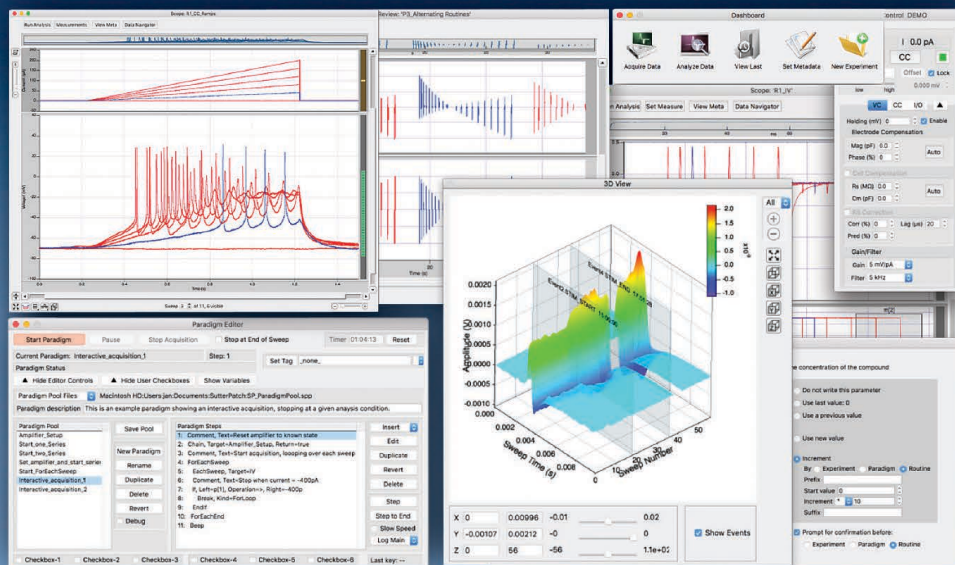
ROUTINES CONTROL DATA ACQUISITION WITH OR WITHOUT APPLICATION OF COMMAND WAVEFORMS

LINE FREQUENCY REDUCTION

PARADIGMS ENABLE PROCESS AUTOMATION AND ELIMINATE OPERATOR BIAS

THE DATA NAVIGATOR DISPLAYS THE ENTIRE EXPERIMENT IN A TREE STRUCTURE

REAL-TIME AND OFF-LINE ANALYSIS



SUTTERPATCH® DATA ACQUISITION, MANAGEMENT AND ANALYSIS SOFTWARE

SutterPatch® software is a full-featured electrophysiology data acquisition, management and analysis application for Windows or Mac OS computers. SutterPatch comes bundled with the Sutter Instrument IPA® Integrated Patch Amplifiers. The software controls data acquisition, provides real-time measurements to aid decision making during the experiment, keeps track of all amplifier parameters, records the experimental progress and stores a set of up to 500 metadata parameters. Built within the newly released version 7 of Igor Pro by WaveMetrics, Inc., SutterPatch provides immediate access to Igor's powerful scientific and engineering analysis tools.

Particular emphasis was put into intuitive navigation through large data sets. Controls that are familiar from electrophysiology software or applications in

other fields, as well as entirely new approaches make finding a particular section of an experiment very easy.

The structured architecture of the data files was designed to retain the context of every sample within an experiment. With little effort at the beginning of an experiment, a plethora of metadata parameters are recorded – automatically where possible, configured by the user where desired. Each parameter can be reviewed before a Paradigm or Routine is executed.

SutterPatch software comes with a collection of sample Paradigms and Routines that help configuring commonly executed experimental scenarios.

SutterPatch provides real-time analysis capability that creates graphs like I-V curves or a time course

plot while the experiment is in progress. Up to 8 analysis graphs can be shown, each derived from 16 possible measurements from the input signals. Analyses include mean, slope, rise time, frequency of threshold crossing, etc. This facilitates making decisions about the further course of an experiment.

In addition to real time analysis, reanalysis after the experiment allows performing the most sophisticated analysis procedures. SutterPatch adds application-specific capabilities on top of the expansive analysis feature set that is native to Igor Pro 7. Equations and Variables facilitate the use of more complex algorithms in both Routines and Paradigms.

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FEATURE HIGHLIGHTS

- Scope Window provides intuitive, efficient navigation through your data
 - Zoom control buttons and sliders
 - Drag along axis to zoom in
 - Mouse wheel
 - Marquee zoom
 - Scroll bars
 - Sweep, time course and concatenated display
 - Novel 3D display
 - Unique Overview Navigator for panoramic examination of and convenient movement within a data section
 - Paradigm Review window gives quick access to individual Routine Data
- Routines control data acquisition with or without application of command waveforms
 - Sample Routine Pool with pre-configured Paradigms for many common applications
 - Hard-wired signals from Sutter Instrument hardware and auxiliary input signals are recorded
 - The command signal as applied to the cell is monitored and recorded
 - Multi-amplifier mode: A combination of any two **IPA®** or **Double IPA®** Amplifiers can be connected, providing up to 16 input channels
 - Analog and digital output signals control periphery and third-party information
 - Up to 50 Segments per Sweep for utmost flexibility in shaping command waveforms
 - Preconfigured Segment shapes, such as Sine, Square and Chirp, for easy waveform design
 - Waveform Template enables “playback” of a recorded signal to a cell.
 - Measurements provide the basis for real-time analysis and enable decision making in the course of the experiment
- Paradigms enable process automation and eliminate operator bias
 - Sample Paradigm Pool with pre-configured Paradigms for many common applications
 - Configure the amplifier to reproducible standard settings
 - Acquisition of Routine sequences enables pre-planned experimentation and minimizes operator bias.
 - Flow control for interactive or automated decision making during the experiment
 - Chaining Paradigms provides added flexibility
 - Automatic creation of Layouts for standardized documentation
- The Data Navigator displays the entire experiment in a tree structure
 - Preview of the first acquired signal
 - Quick access to Paradigm Review, Reanalysis Scope, Metadata and Routine information
- Real-time and off-line analysis
 - Measurements configured as part of Routines create real-time graphs
 - Paradigms can access measurements for further real-time analysis
 - Equations and variables provide utmost flexibility
 - Event detection using a performant, deconvolution-based algorithm
 - Easily exports data to Microsoft Excel and other spreadsheet programs for compatibility with existing analysis procedures
 - A wealth of native Igor Pro 7 analysis features
- Support for multi-amplifier mode
 - A combination of any two IPA® or Double IPA® Amplifiers can be connected.
 - Up to 16 input channels are supported

