

Automatically detect and analyze multiple peaks in a wide range of signals in both real-time and post-recording.

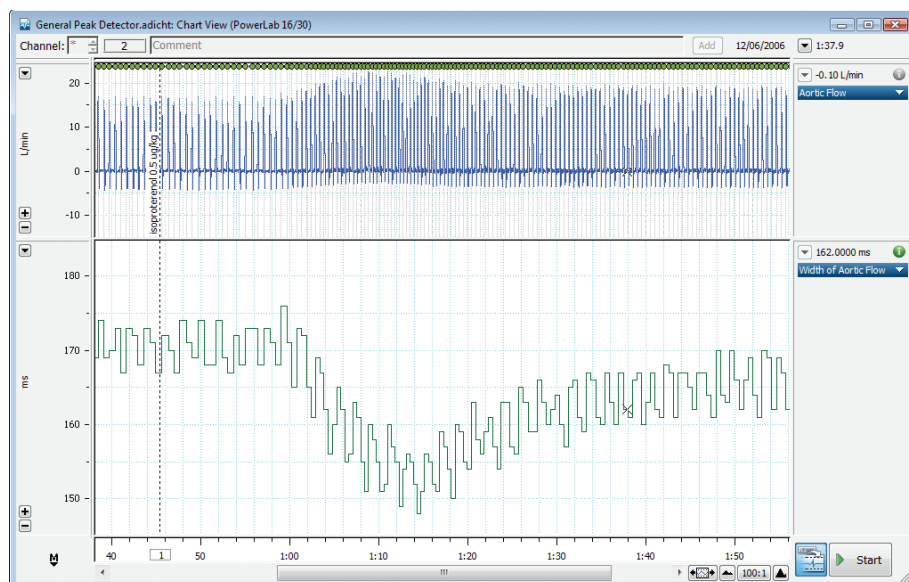
The Peak Analysis Module for LabChart automatically detects and analyzes multiple non-overlapping peaks from a wide range of recorded waveforms.

Analyze waveform peaks offline using existing recordings or online with live recordings. Detect peak parameters from an entire channel or just a selection. Choose from several customizable analysis settings to suit your signal type.

Quickly visualize your signal in Chart View, as LabChart marks each detected peak. View and export your peak parameters from the comprehensive Table View. Use the Peak Analysis View to highlight parameter markers, peak values, and peak area, or scroll through sequential peaks.

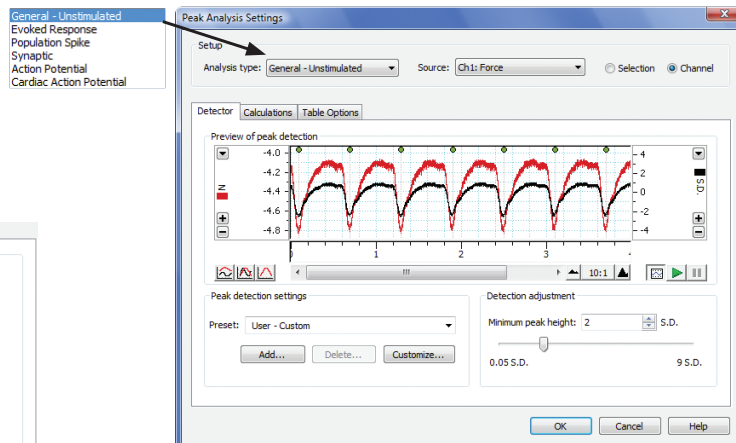
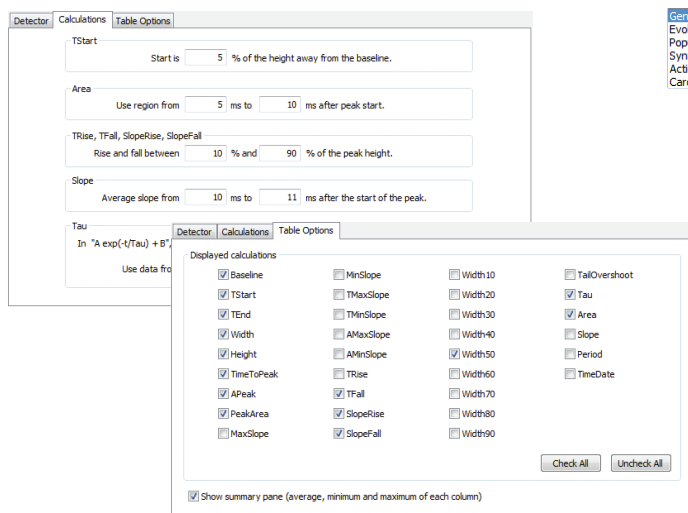
## Applications

- Isolated Tissue Studies
- Hemodynamic Measurements
- Amperometry
- Cardiac Physiology
- Electrophysiology
- Neurophysiology



*Left:* Improve your real-time analysis. LabChart displays the calculated peaks as a continuous signal in a separate channel.





Above: Peak Analysis Settings dialog with Calculations (left), Table Options (centre), and Detector (right) tabs.

## Peak Analysis Module

### Detection and Analysis Settings

Use the Peak Analysis Settings to customize peak detection for each data channel, including how you want to calculate peak parameters. Select which table options you want to display when exporting your data.

### Analysis View

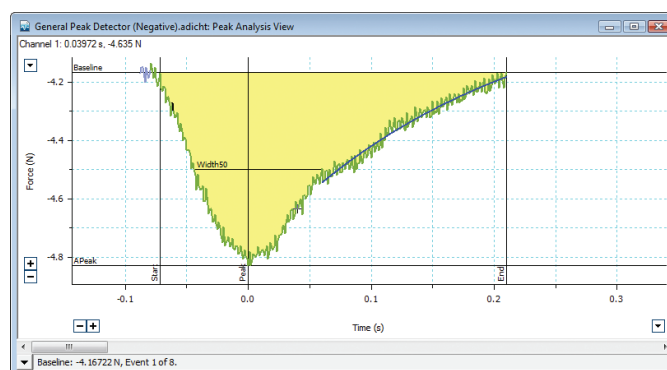
Utilize the Peak Analysis View to display individual peaks and their parameters. Scale your waveform to best capture the essential elements. Summarize the peak information for highlighted waveforms.

### Table View

Summarize key parameters for all detected peaks with the Peak Analysis Table View, including average, minimum, and maximum values. Export your table as a txt file format or to LabChart Data Pad.

### Quick and Easy Navigation

Scroll peak-by-peak in Peak Analysis View. Select an individual peak by clicking directly on the waveform in Chart View. Locate specific waveforms by selecting a row in Table View. Whichever view you are using, your data is linked across the displays for quick and easy navigation to the information you need.



Above: Peak Analysis View displaying a negative peak and its parameters.

	Baseline (N)	TStart (s)	TEnd (s)	Width (ms)	Height (N)	TimeToPeak (ms)	APeak (N)	PeakArea (N.s)	TFall (ms)	SlopeRise (N/s)
1	-4.167	0.01600	0.2980	282.0	-0.6638	72.00	-4.830	-0.08483	160.0	-9.519
2	-4.137	0.6140	0.9350	321.0	-0.6832	76.00	-4.820	-0.09203	173.0	-9.123
3	-4.122	1.213	1.557	344.0	-0.7079	79.00	-4.830	-0.1010	178.0	-10.00
4	-4.136	1.807	2.136	329.0	-0.6685	89.00	-4.805	-0.09146	175.0	-8.889
5	-4.137	2.418	2.734	316.0	-0.6933	82.00	-4.830	-0.09301	167.0	-9.732
6	-4.144	3.013	3.326	313.0	-0.6556	87.00	-4.800	-0.08674	161.0	-8.689
7	-4.106	3.611	3.946	335.0	-0.7042	91.00	-4.810	-0.1021	182.0	-8.689
8	-4.129	4.215	4.525	310.0	-0.6607	68.00	-4.790	-0.09081	160.0	-8.839
Avg	-4.135	2.113	2.432	318.8	-0.6795	80.50	-4.814	-0.09275	169.5	-9.185
Min	-4.167	0.01600	0.2980	282.0	-0.7079	68.00	-4.830	-0.1021	160.0	-10.00
Max	-4.106	4.215	4.525	344.0	-0.6556	91.00	-4.790	-0.08483	182.0	-8.689
Count	8	8	8	8	8	8	8	8	8	8

Above: Table View with logged peak parameters.

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