LabChart Lightning
Data acquisition and analysis re-imagined.

Make unique scientific discoveries with unlimited freedom and flexibility.

LabChart
LIGHTNING

What is LabChart Lightning?

LabChart Lightning is the latest iteration of our 34 year history of creating easy to use data acquisition and analysis software. LabChart Lightning empowers innovative researchers to make unique scientific discoveries with unlimited freedom and flexibility.

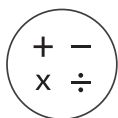### How is LabChart Lightning different?

LabChart Lightning runs on Quark, the same reliable and robust engine that powers LabChart 8. The difference is that LabChart Lightning has been completely re-imagined to focus on combining power, ease of use, and data integrity.

∞ Unlimited channels

Cross-recording analysis

+ − × ÷ Custom calculations

Cross platform

"The ability to overlay signals so you can see derived channels and keep an eye on critical signals is extremely valuable."

Professor Jim Cotter
School of Physical Education,
Sport and Exercise Sciences, University of Otago

Applications include:

Human
Autonomic
Cardiovascular
Exercise and Sport
Neurophysiology
Psychophysiology
Respiratory
Speech Pathology
Tissue and Circulation

Animal
Autonomic
Cardiovascular
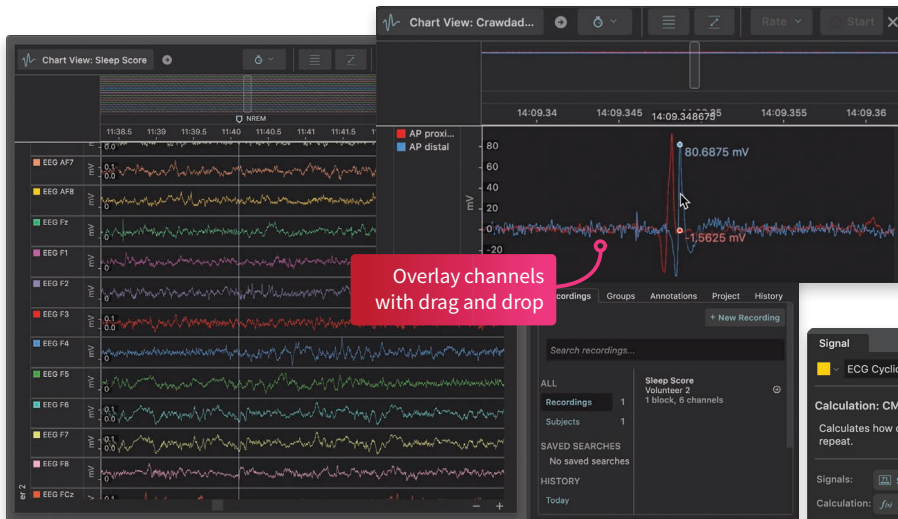Telemetry
Tissue and Circulation

In Vitro
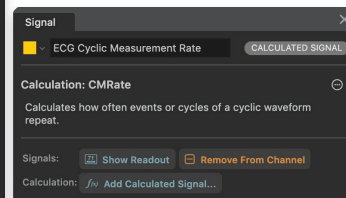Isolated Organ

Key Features of LabChart Lightning

PowerLab Integration.

Start and stop recording data from a PowerLab and ADInstruments amplifiers. Control hardware settings and filters from within LabChart Lightning.
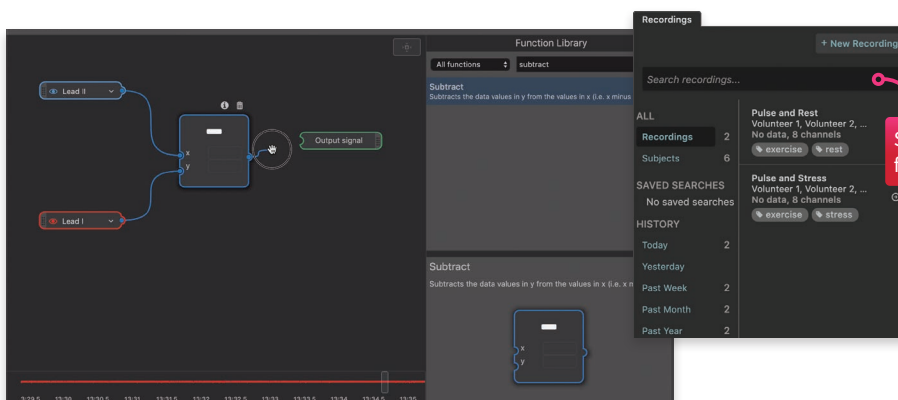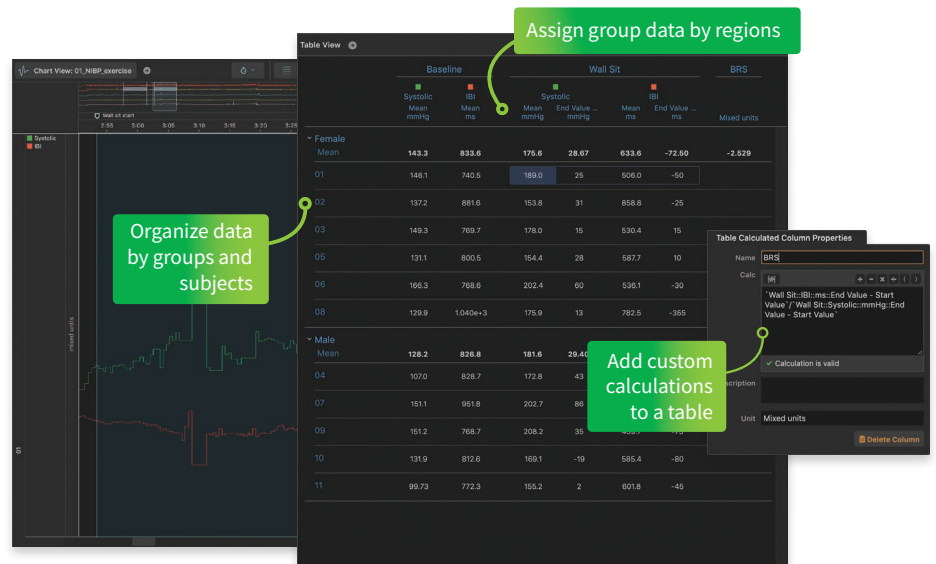

Unlimited Channels and Overlays.

Record data into an unlimited number of channels. Create as many calculated signals as you like. Overlay signals by dragging and dropping them between channels.

Overlay channels with drag and drop
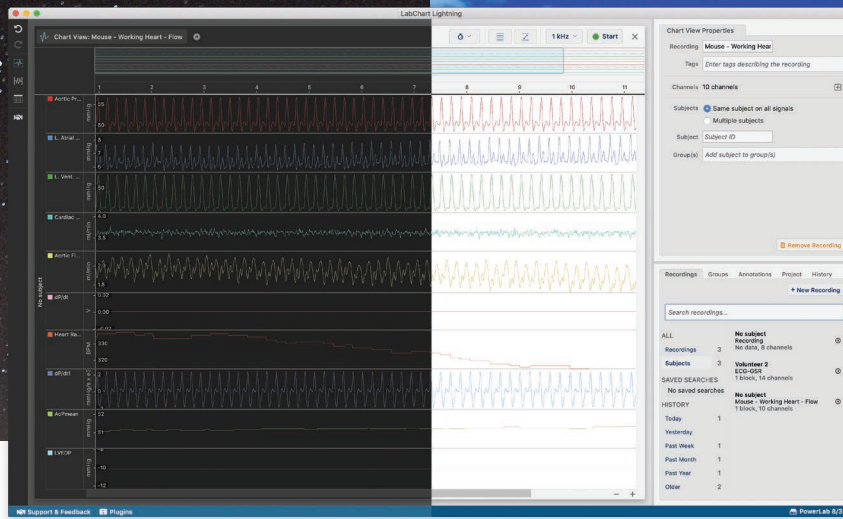
Cross-Recording Analysis and Table View.

Analyze data across multiple recordings within a project. Organize recordings and channels by subjects or groups. Convert time-based data from recordings to discrete values to use in statistical analysis.

Assign group data by regions

Organize data by groups and subjects

Add custom calculations to a table

Custom Calculations.

Create custom calculations by dragging and dropping functions from our extensive function library. See the effect of custom calculations on your original data to optimize your calculations. Share your calculations with colleagues.
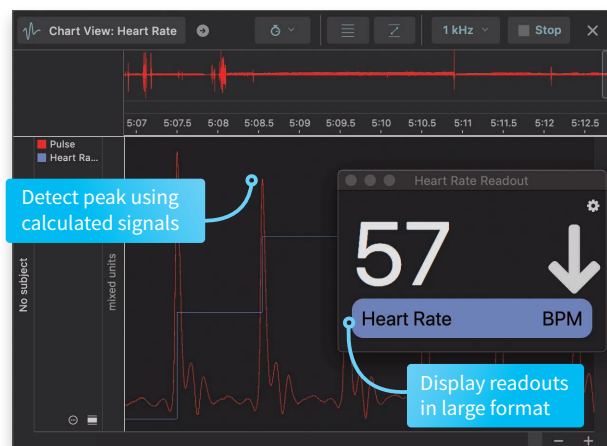
Search for functions

Dark View and Light View.

Switch between dark and light view. Dark view makes it easier to look at your screen for long periods of time in low light environments.

History and Autosave.

Every change to a project and its recordings is automatically saved and logged in the project history. Easily revert to previous versions of your project using the history feature.

Revert to any point in history

Readouts.

Display your raw data or calculated signal as a large numerical display.

Detect peak using calculated signals

Display readouts in large format

"The user interface is modern and easy to use. The custom calculation feature is great, it's very intuitive, just copy, paste and drag."
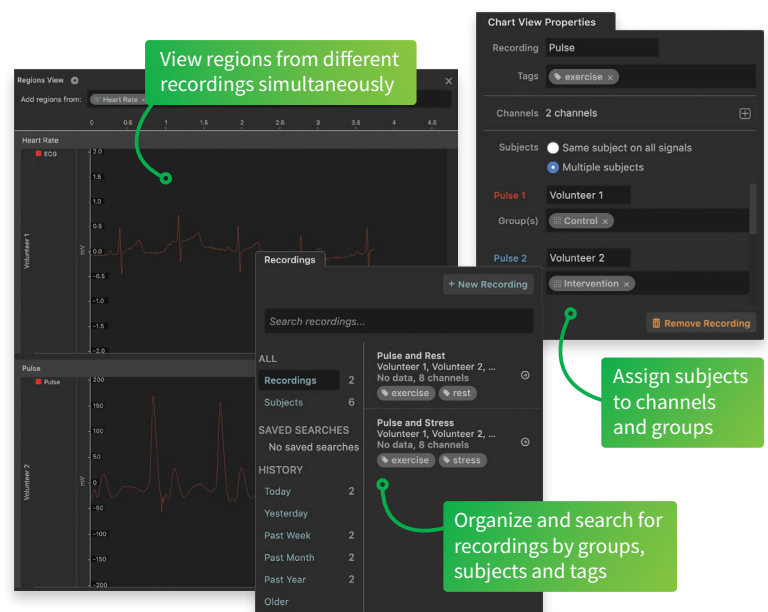
Travis Gibbons,
Ph.D student, Sports and Exercise Science, University of Otago.

Data Management.

Organize your recordings within projects. Assign signals to subjects and groups within a project. Select regions of data for cross recording analysis.

"If you enjoyed using LabChart 8, you're going to love Lightning, as it offers even more flexibility and customization."

Brandon Bucher
Head of Research Business Unit, ADInstruments

View regions from different recordings simultaneously

Assign subjects to channels and groups

Organize and search for recordings by groups, subjects and tags

LabChart Lightning vs. LabChart 8 Feature Comparison

	PowerLab Integration	Data Management	Cross-Recording Analysis	Unlimited Channels	Custom Calculations	Cross Platform	History and Autosave	Dark View and Light View	Import/Export	Table View	Annotations and Regions	Readouts	Spectrum and Scope	Macros	Stimulation	Data Plots	Scheduler	Extensions	Analysis Modules
LabChart Lightning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	*Coming soon* *Audio Output* *Cardiac Axis* *Event Manager* *Export QuickTime* *Fast Response Output* *Multipoint Calibration* *Non Invasive Cardiac Output Spirometry* *Telegraph*	*Coming soon* *Blood Pressure* *Cardiac Output* *DMT* *Normalization* *Dose Response* *ECG Analysis* *HRV* *Metabolic* *Peak Analysis* *PV Loop* *Spike Histogram* *Video Capture*
LabChart 8	✓	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Upcoming enhancements

Our developers are continuously working on improving LabChart Lightning and the following features are currently getting their full attention:

Third-Party Devices

Create your own JavaScript plugins or install our plugins to sample from non-ADInstruments devices.

Data Display

More flexibility in the way you visualize your data on multiple tables and charts simultaneously, and more portability in your recordings and projects.

Licenses

LabChart Lightning's user-based online licensing allows you to log in and use Lightning wherever you are, while offline licensing allows you to assign a license to a computer for longer-term or offline recording. The new license group administration features put licensing into your own hands, allowing you to assign or revoke licenses within your group and maintain control over license usage.

LabChart LIGHTNING

Sign up for a 30-day free trial to experience LabChart Lightning now: adi.to/lightning

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