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

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.

“*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
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.

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.

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.

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.
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.

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

**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

"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.
LabChart Lightning vs. LabChart 8 Feature Comparison

<table>
<thead>
<tr>
<th>LabChart Lightning</th>
<th>LabChart 8</th>
</tr>
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<tbody>
<tr>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
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### 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.

Visit adinstruments.com or contact your local ADInstruments representative for more information.