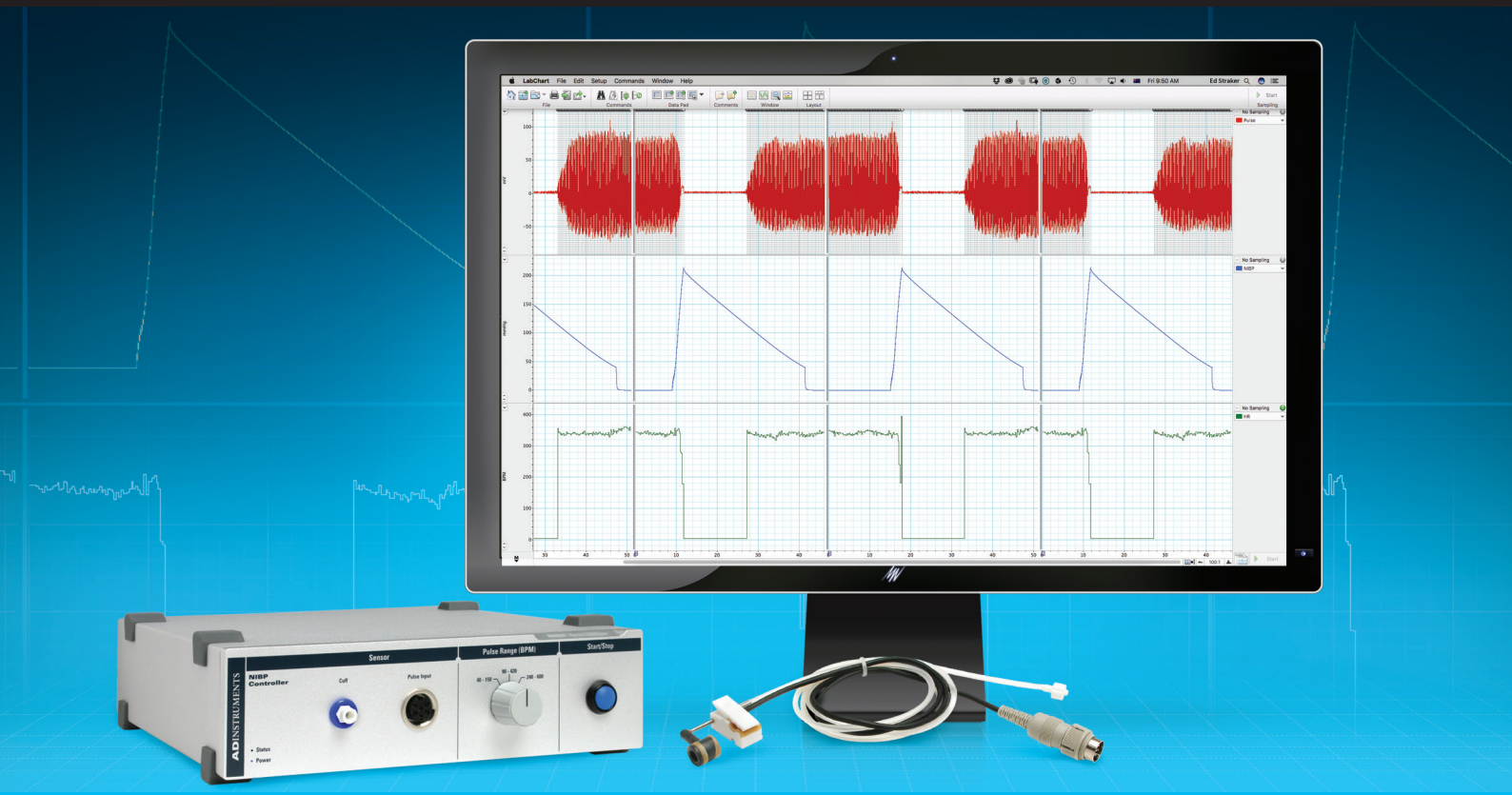
ADInstruments NIBP System

Non-invasive Animal Hemodynamics

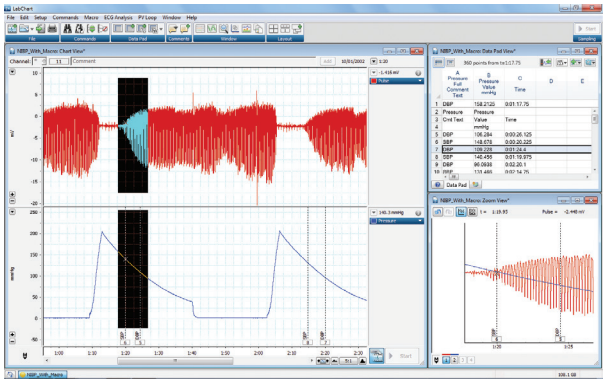


Monitor changes in animal pulse rate and blood pressure in real-time without the need for invasive surgery

The ADInstruments NIBP System offers an intuitive and reliable solution for measuring systemic blood pressure and cardiovascular parameters in rats and mice and without the need for invasive surgery.

The System uses piezoplethysmography technology to intermittently measure non-invasive blood pressure (NIBP) and pulse rate based on the periodic occlusion of tail blood flow to the tail.

Designed to work with a PowerLab data acquisition system and LabChart analysis software, this easy-to-use, customisable system is ideal for researchers looking for complete control and visualisation over their NIBP data.



Easily calculate additional hemodynamic parameters (i.e. diastolic/systolic pressure) and perform complex analyses using LabChart's advanced analysis tools.

Solution Highlights

- Provides reliable, consecutive NIBP measurements from awake or anesthetised animals.
- Easily adjust the frequency of pulse and blood pressure sampling for different animals (mice and rats) using specified measurement cycles.
- Customise your System with different data acquisition options and accessories to suit your exact research needs

ADInstruments equipment is used in the **TOP 100 INSTITUTIONS** for Life Science worldwide and is cited in more than **30,000** peer-reviewed papers.

Applications include:

Hyper/hypotension • Drug Screening • Phenotyping • Obesity
Nephrology • Endocrinology • Sepsis and Toxicology • Surgical Monitoring

System Overview

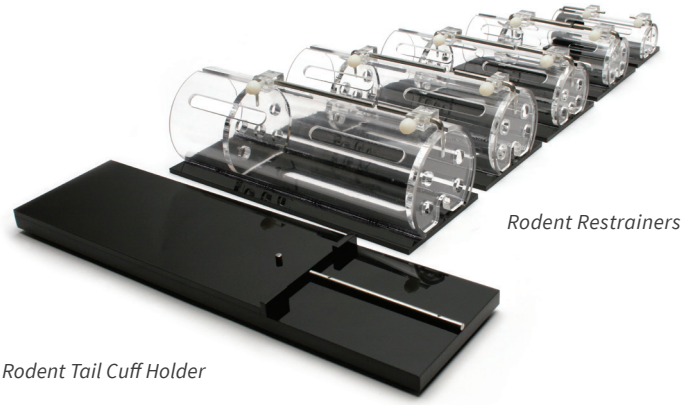
The NIBP System features an NIBP Controller and corresponding tail cuff and pulse transducer for measuring pulse rate and intermittent blood pressure from mice or rats.

Pulse Transducer/Pressure Cuff (mouse or rat option available)

NIBP Controller

System Accessories

Rodent Restrainers and Tail Cuff Holders are also available in different sizes to safely secure animals during conscious experiments (purchased separately).



Rodent Restrainers

Rodent Tail Cuff Holder

Flexible Data Acquisition and Analysis

Pair the NIBP System with either a C Series Front End Interface or traditional PowerLab for data acquisition, and LabChart 8 or LabChart Lightning software for real-time data recording and visualisation. This integrated solution provides a platform for multiple data recording devices to work together, allowing you to acquire signals from simultaneous sources and apply advanced calculations as your experiment unfolds.

Hardware Connectivity

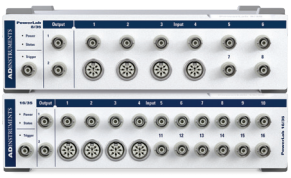
PowerLab C

+ Front End Interface
(recommended)

The combination of PowerLab C and C Series Interfaces creates a modular data acquisition foundation system for researchers looking to invest in customisable, reliable solutions for both now, and in the future.

PowerLab

Data with integrity

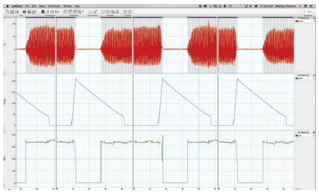


PowerLab is engineered for precise, consistent, reliable data acquisition for life science research, giving you the reproducible data you need while meeting the strictest international safety standards.

Software Connectivity

LabChart

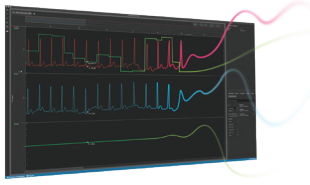
All your analysis in one place



LabChart data analysis software creates a platform for all of your recording devices to work together, allowing you to acquire biological signals from multiple sources simultaneously and apply advanced calculations and plots.

LabChart LIGHTNING

Data acquisition and analysis re-imagined



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

For more information contact your local representative at **info@animalab.eu** or visit **www.animalab.eu**

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