

# A SYNCHRONIZED SOLUTION FOR PSYCHOPHYSIOLOGY

**ADINSTRUMENTS**  
making science easier



## Shock. Sync. Simplify. Replay.

Our flexible, all-in-one systems offer complete solutions for psychophysiology research based on stimulus presentation and evoked responses. You can now synchronize your physiological data acquisition with subject stimulation and video capture.

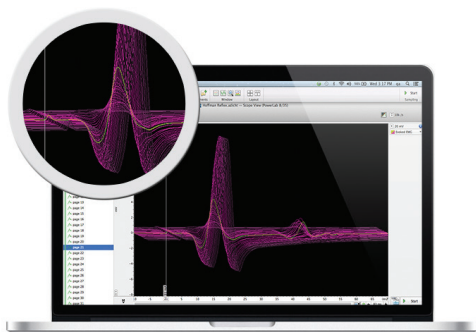
## Complete Systems for Psychophysiology Research

With SuperLab you can build and run complex stimulus protocols for presenting a wide variety of different visual, physical and auditory stimuli. Lists of up to 150 stimuli can be easily randomized in a system that supports words, graphics, sound and video files.

Combine PowerLab and Stimtracker to accurately capture a wide range of biological signals, such as ECG, EEG, EMG (wireless and wired), EOG, ERG and GSR.

Use LabChart and SuperLab software to synchronize your subject's physiological signals with stimulus presentation. Recorded data is automatically annotated with comments marking stimulus changes so you can track evoked responses.

Take advantage of the Video Capture Add-On to record and playback video that is synchronized with your data recording.



### Scope View

The Scope View feature gives you the analysis capabilities of a digital storage oscilloscope - ideal for periodic waveforms, like visual evoked potentials or evoked EMG.

### Photo

A recent study by Dezechache et al from Ecole Normale Supérieure (ENS) in Paris, used PowerLab and LabChart to investigate social psychology of crowds. Their findings demonstrated that people unintentionally produce subtle emotional cues to induce emotional states in others.

*Photo credit: L Nicole's Many Emotions by Ally Aubry CC BY*

### Customer Testimonial

*"PowerLab and LabChart are exceptionally useful tools for the monitoring of a vast array of physiological parameters. I rely upon PowerLab and LabChart for both teaching and research purposes.*

*The LabChart interface is very user-friendly, meaning that it is easy to train undergraduate students in data processing, while the sophisticated data generated has greatly enhanced my published research."*

**Dr Michael Smith,**  
**Senior Lecturer in Psychobiology**  
**and Health Psychology,**  
**Northumbria University**

**PowerLab**

**LabChart**

**LabTutor**

**Lt**

## LabChart Analysis Options for Psychophysiology

- Channel Calculations — Display up to 32 channels of calculated data including rate, integral and mean.
- Scope View — Average signals on multiple channels in real-time for EEG, EMG and evoked potential analyses.
- Stimulator — Program two independent, customized stimulus outputs (only for 35 series PowerLab).
- LabChart Modules — Accelerate analyses with specialized Modules including HRV and ECG Analysis.

### Stimulus Presentation Foundation System

PL3508B110

Includes a Powerlab 8/35, LabChart Pro, SuperLab and Stimtracker, GSR Amp, Dual Bio Amp, and transducers for GSR, ECG, EEG, EMG, EOG and heart rate.

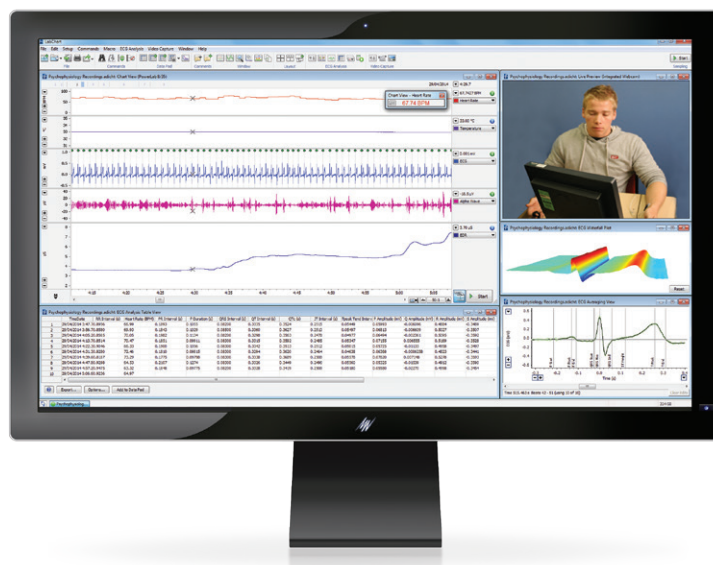


## Teaching Systems for Psychophysiology

Using Lt or LabTutor, students can learn methods in psychophysiology and experimental psychology. They can explore and understand biofeedback, classical conditioning, electrodermal response, perception, reaction time, and psychological bias.

### The Psychophysiology Experiment range includes:

- Introduction to Psychophysiology Methods
- The Stroop Test
- Visual Evoked Potential (VEP)
- Electrodermal Response (EDR) and Classical Conditioning
- Sensory Illusions
- Perception and The Size-Weight Illusion *and more...*



### Psychophysiology Teaching System PTB4265

Includes a high performance PowerLab data acquisition unit, electrodes for recording biopotentials, temperature and GSR, and LabChart and LabTutor Teaching Suite.

PowerLab, LabChart and LabTutor are trademarks of ADInstruments Pty Ltd. All other trademarks are the property of their respective owners. PowerLab systems and signal conditioners meet the European EMC directive. ADInstruments signal conditioners for human use are approved to the IEC60601-1 patient safety standard and meet international standards. ISO 90 01: 2 0 0 8 Certified Quality Management System.

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