

# BioBench Physiological Data Acquisition and Analysis

BioBench

## BioBench

Turnkey application—no programming required

16 input channels

16 kHz aggregate streaming-to-disk capabilities

Compatible with monitoring equipment and amplifiers outputting linear analog voltages

Playback mode

Sample files for instructional playback

Play back any files acquired with BioBench

Vendor database contains calibration settings for third-party amplifiers and monitoring equipment

2-point calibration routine for calibrating instruments

Enter file notes in a journal during data acquisition

Mark events in data with time-stamped notes

Data trending during data acquisition

Export data regions of interest to spreadsheet

Report generation

8-channel overlaid analysis graph

LabVIEW VIs available for reading BioBench datalog files

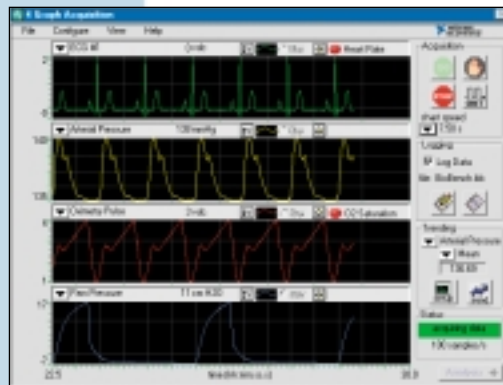
Analog output channel for stimulus control

## System Requirements

486 PC or greater

Windows 2000/NT/Me/9x with 16 MB

RAM and 20 MB hard disk space



## Overview

BioBench is a low-cost turnkey software application designed specifically for the life sciences field. It incorporates PC-based data acquisition and analysis of life science signals into one software package. Because you have nothing to program, you can begin acquiring data immediately. BioBench will help transform your lab as you incorporate the PC into your experiments for data storage and analysis.

Through the flexibility and capacity of the PC, BioBench empowers you to keep your traditional instruments as well as develop a PC-based solution. You conserve your investment, because you do not have to upgrade your instruments or spend time learning new hardware peculiarities. Using the PC to acquire, store, display, and analyze data opens new doors to all users in the life sciences field.

## Data Acquisition Options

With BioBench the choice for data acquisition is easy. Whether you are using a desktop or a laptop computer, National Instruments has the best data acquisition hardware to choose from. Each DAQ board is able to sample at least eight independent channels with at least 12 bits of resolution.

Each BioBench kit comes with the BioBench software, one National Instruments DAQ device, one BNC adapter, and one DAQ cable. See Figure 1 on page 156 for details on connecting your equipment to National Instruments DAQ devices.

## BioBench Compatibility

BioBench works with instruments from the following manufacturers, as well as a host of others. Included in the BioBench vendor database are the calibration settings for numerous models of instruments offered by a number of different vendors, such as:

- Axon Instruments, Inc.
- CB Sciences, Inc.
- Grass Instruments
- Gould Instrument Systems
- Lafayette Instrument Company
- Vacumetrics/Vacumed
- World Precision Instruments

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