

# Biopac Student Lab Home



## Teach Hands-on Physiology Labs Remotely



### Complete Physiology Lab Solution

Biopac Student Lab Home (BSL-HOME) enables students to conduct physiology labs in the safety of their own home, dorm room, or any remote location. BSL Home is an easy-to-use system that includes everything students need to run practical physiology labs remotely. With BSL Home, instructors can provide the practical lab experience without the physical lab.

*Ready-to-run, ready-to-teach,  
right out of the box,  
BSL fully engages students  
before, during, and after the lab.*

### How It Works

- Instructor purchases a set of systems for their lab course.
- Lab kits are shipped to instructors for distribution (student leasing and direct-to-student shipping options available in USA).
- Students complete lessons remotely by recording from their own bodies with guided lessons.
- Instructors review student's data and lab report with the option to provide feedback.
- Students return rented system to instructor or BIOPAC.

**Maintain hands-on learning for socially-distanced students.**



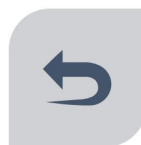
ORDER



SHIP



LEARN



RETURN

## Engage Remote Students with Hands-on Learning

### In the Box

Recording Device

Lead Set

Disposable Electrodes

Digital Manual (PDF)

Software is downloaded

### Included Lessons

Heart Signals (ECG)

Brain Waves (EEG)

Muscle Activity (EMG)

Eye Movement (EOG)

Aerobic Exercise (ECG)

Biofeedback (ECG/HR)

### Flexible Options

#### Own—All Regions

- School purchases units and distributes to lab or students.

#### Lease—USA Only Options

- BIOPAC handles delivery/return directly with individual students.
- Instructor receives all leased units and distributes as needed until term ends.

# BIOPAC

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Contact BIOPAC to learn more or request a quotation!

# BSL is the Premier Choice for Life Science Education



## Biopac Student Lab

### *Instructors Provide Hands-on Labs Remotely*

BSL Home makes it easy for instructors to run physiology labs remotely or maintain social distancing while students are on campus or in the lab. Students can collect data from any location—at home or on campus—while social distancing rules apply. BSL's curriculum and guided lessons provide an out-of-the-box teaching solution that's ready to use on day one. It provides physiology lessons on heart signals (ECG), brain waves (EEG), muscle activity (EMG), eye movement (EOG), and respiration. Step-by-step instructions guide students through data collection and analysis. BIOPAC can manage student orders, delivery logistics, consumables, support, and safe handling of all items.

### *Students Learn by Doing*

Students follow guided instructions and collect data from their own bodies. Extensive multi-media pre-lab materials familiarize students with scientific principles, procedures, hardware, software, and sample data. Once students receive their BSL Home unit, they can run up to 9 practical labs. After data is collected, they submit it to the instructor for review and feedback. Students then ship the device back to BIOPAC or the instructor for testing and sanitizing when the lab work is completed.

## Biopac Student Lab Home Lessons

### **L01 Electromyography (EMG) I**

*Standard & Integrated EMG*

### **L02 Electromyography (EMG) II**

*Motor Unit Recruitment & Fatigue*

### **L03 Electroencephalography (EEG) I**

*Relaxation & Brain Rhythms*

### **L04 Electroencephalography (EEG) II**

*Alpha Rhythms in the Occipital Lobe*

### **L05 Electrocardiography (ECG) I**

*Components of the ECG*

### **L08 Respiratory Cycle I**

*Respiratory Rates, Relative Depths of Breathing, Regulation of Ventilation*

### **L10 Electrooculogram (EOG) I**

*Eye Movement; Saccades & Fixation*

### **L14 Biofeedback**

*Relaxation & Arousal*

### **L15 Aerobic Exercise Physiology**

*Cardiovascular & Respiratory Adjustments During and After Exercise*