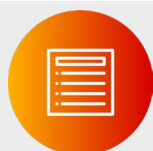


## Making Physiology Happen

iWorx offers complete solutions for the teaching of human physiology as well as advanced, high performance systems for research. The numerous “hands-on” experiments provide student involvement that enhances the overall learning experience.

# Ultimate Human Physiology Teaching Kit



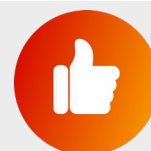
**Step-by-step  
instructions**



**76 labs  
and 100+  
exercises**



**Adaptable to  
any lab  
manual**



**Quick  
setup**

## Ultimate Human Physiology Kits Include:

- TR Control Module with Wireless ROAM (ECG, EMG) Amplifier, Built-in Pre-calibrated Sensors
- LabScribe™ Software
- Spirometer Flow Head
- Heart Sounds Sensor
- Pulse, SPO2 and Temperature Sensor
- Non-Invasive Blood Pressure Sensor
- Grip Force Sensor
- Muscle Twitch Sensor
- Single-axis Goniometer
- Patellar Reflex Hammer
- Respiration Monitor
- Event Marker
- Headphones
- Courseware

## Human Physiology Measurements:

- ECG, EMG, EEG
- GSR
- Blood Pressure
- Heart Sounds
- Spirometry
- Reflexes
- and more...

iWorx ultimate courseware includes over 80 experiments and 250 exercises in cardiovascular, neuromuscular and spirometric physiology, as well as all of the components and professionally developed courseware you need to conduct the labs. Use pre-configured teaching kits or iWorx unique LabsByDesign approach to choose only the equipment you need for the labs you want to teach.

## Human Circulation:

- Blood Pressure, Peripheral Circulation, and Body Position
- Blood Pressure, Peripheral Circulation, and Imposed conditions
- Pulse Wave Velocity

## Human Heart:

- The Electrocardiogram (ECG) and the Pulse
- Heart Sounds and the Electrocardiogram (ECG)
- The Effects of Exercise on the Electrocardiogram (ECG) and the Pulse
- The Six-Lead Electrocardiogram
- The Diving Reflex
- Heart Rate Variability (HRV)

## Human Muscle:

- Grip Strength and Electromyogram (EMG) Activity
- Electromyogram Activity in Antagonistic Muscles
- EMG and Arm Wrestling
- Oculomotor Muscle Activity
- Response, Work, Summation and Tetanus in Human Muscle
- Kinesiology Targeted Muscles
- Human Muscle Twitch

## Human Spirometry:

- Breathing Parameters at Rest and after Exercise
- Breathing and Gravity
- Factors that Affect Breathing Patterns
- Lung Volumes and Heart Rate

## Human Nerve:

- Auditory and Visual Reflexes
- Stretch Receptors and Reflexes with Reflex Hammer
- Stretch Receptors and Reflexes with Plethysmograph
- Human to Human Interface

## Psychological Measurements:

- Hemispheric EEG
- GSR
- ECG and Blood Pressure
- Facial EMG
- Skin Temperature
- Stroop Test
- Eriksen Flanker Test
- Reflex Testing
- Reaction Times
- Polygraph