

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 Lab Kit



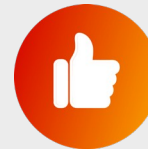
Step-by-step instructions



76 labs and 100+ exercises



Adaptable to any lab manual



Quick setup

Ultimate Human Physiology Kits Include:

- TA-ROAM Recorder with Wireless ROAM (ECG, EMG, EEG) 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
- Lab Manual

Human Physiology Measurements:

- ECG, EMG, EEG
- GSR
- Blood Pressure
- Heart Sounds
- Spirometry
- Reflexes
- Pulse Ox
- Grip Force
- Temperature
- Arrhythmia Generator and more!

iWorx ultimate lab manual includes over 76 experiments and 100 exercises in cardiovascular, neuromuscular and spirometric physiology, as well as all of the components and a professionally developed lab manual. 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