

iWorx Ultimate Physiology Teaching Kits

MAKING PHYSIOLOGY HAPPEN

The UHK-TA Ultimate Human Physiology Teaching Kit includes all of the necessary hardware and components, LabScribe software and expertly written courseware to teach 59 experiments and more than 175 exercises in cardiovascular, respiratory, and neuromuscular physiology.



Human Physiology Kits

iWorx Ultimate Human Physiology Kits include:

- TA Control Module with iWire-compatible Biopotential (ECG, EMG, EMG, GSR) Amplifier, Built-in Stimulator
- LabScribe™ Software
- Spirometer Flow Head
- Heart Sounds Sensor
- Pulse Probe
- Non-Invasive Blood Pressure Sensor
- Temperature Sensor
- Grip Force Sensor
- Event Marker
- Muscle Twitch Sensor
- Headphones
- Single-axis Goniometer
- Patellar Reflex Hammer
- Pulse Oximeter
- Respiration Monitor
- Courseware

Human Physiology Measurements

The kits are suitable for recording and measuring:

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



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iWorx TA Physiology Courseware

iWorx Ultimate courseware includes over 59 experiments and 175 exercises in cardiovascular, neuromuscular, spirometric and psychological 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 simply 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



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