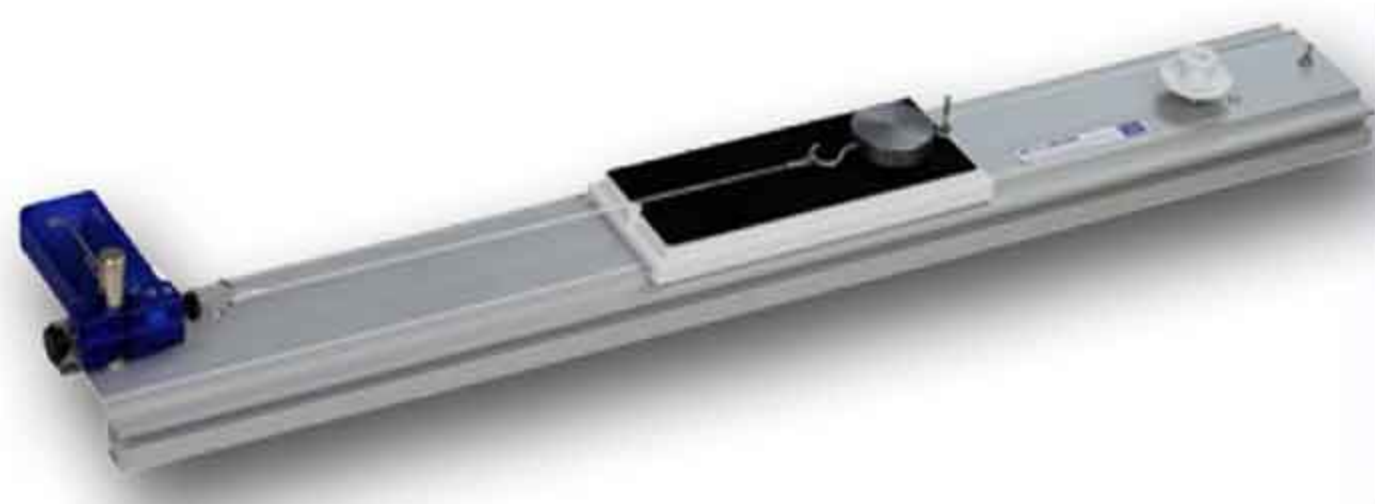




Lab Equipment



E09 Friction Apparatus

Composed of track, base of friction platform, multi friction block, electric motor; use with force sensor, which can make friction object do uniform linear motion.



E10 Wireless Centripetal Force Apparatus

Composed of base, bracket, radial arm (with build-in sensor and wireless transmission circuits), light barrier arm, arm base, Mass, connecting device, fasteners and wireless receiver. Radial arm can rotate freely in horizontal, vertical and inclined plane. It can communicate with PC through wireless receiver and pc USB port, it is unnecessary to drive by motor; use assembly with wireless sensor and wireless data receiver. Needless of Data logger and sensors.



E11 Equilibrium of Two Forces Apparatus

Composed of Uniform motion lifting gear and used with Force Sensor. It can record the Force changes of a moving object and make a further study of the velocity.

Note :

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E12 Fluid Pressure Apparatus

Composed of air pump, 3pcs of pipe with different diameters, coupling hoses and bracket. It should be used with 3 pcs of Relative Pressure Sensors. It can clearly show the pressure difference of airflow in different fluid speed. It is used to demonstrate Bernoulli's principle.



Lab Equipment



E13 Far-infrared Heater

220V AC supply, Power: 80W; Cylindrical far-infrared heating furnace core, convenient for even heating of heating unit. It can complete the high-precision thermology quantitative experiments such as study Charles's law, melting and solidification of crystal, and specific heat capacity.



E14 Charles's Law Apparatus

Composed of tube, rapid temperature probe, pressure sensor and connector; combining temperature with pressure sensor to study the relationship between gas pressure and temperature.



E15 Expansion and Contraction Apparatus

Composed of base, metal wire and pull rod. It is used with force sensor.



E16 Work by Compressed Gas Apparatus

Composed of special base, injector and rapid response temperature probe; study the change of temperature for gas compression or expansion.

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Lab Equipment



E17 Frictional Heat Apparatus

Composed of copper tube, support, friction band; use with temperature sensor, which can complete the friction experiment to make temperature rise.



E18 Heat Radiation Absorption Apparatus

Composed of different materials blocks and a bracket. It should be used with 3 temperature sensors to compare the heat absorption capability of different materials under the same condition.



E19 Audio Signal Generator

Sound through built-in speaker; soundwave can be adjustable from 100Hz~6kHz; loudness of sound can be adjustable if continuous. Measure sound signal to conduct sound analysis assorted with sound sensor.

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E20 Optics Kit

Composed of laser source box, slit accessory, bracket and polarizer. It's installed on the iron stand and used with Illumination Distribution Sensor to study the light single-slit diffraction and double-slit interference.



Lab Equipment



E21 Solenoid

It can connect with Student Power Supply. With plastic sealing, Its inner side can generate uniform magnetic field.



E22 High-Sensitivity Coils

With high sensitivity, passive, plastic sealing, shield, assorted with Micro Current Sensor, it can measure the induced current generated by cutting the magnetic field and also can measure electromagnetic radiation intensity of different electric appliance.



E23 Electrical Conductivity for Glass Items

Composed of base and special experimental plate; Assort with micro current sensor

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E24 Thermocurrent Apparatus

Composed of base and metal frame with different materials; Assort with micro current sensor.

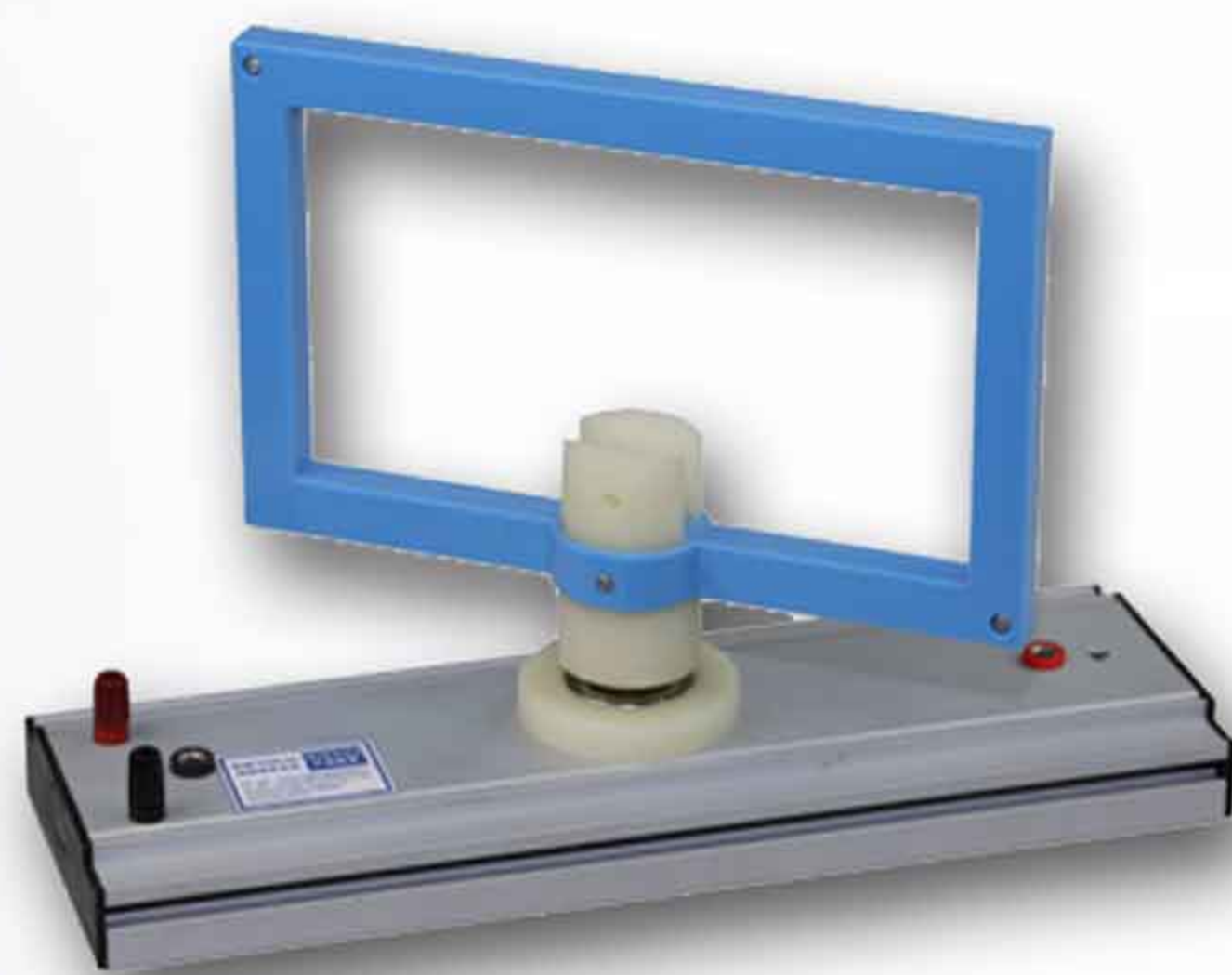


Lab Equipment



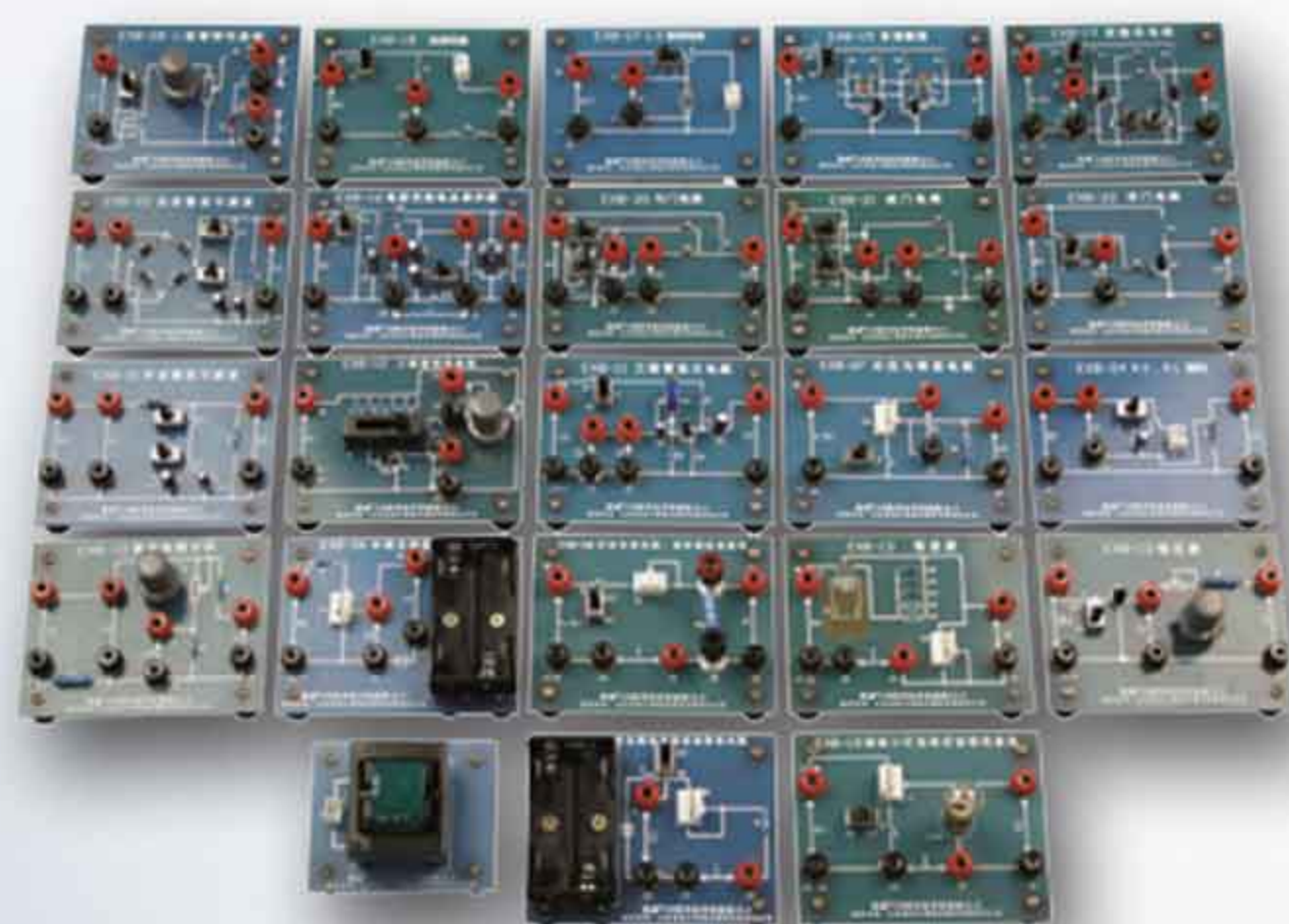
E25 Thermal Radiation Apparatus

Composed of base and special experimental plate; Assort with micro current sensor.



E26 Geomagnetic Field Generator

Composed of special base, rectangular coil, joint bearing. Coil can be rotated freely; use with micro current sensor; AC generated by rotating measuring coil.



E27 EXB Series Circuit Experiment Board

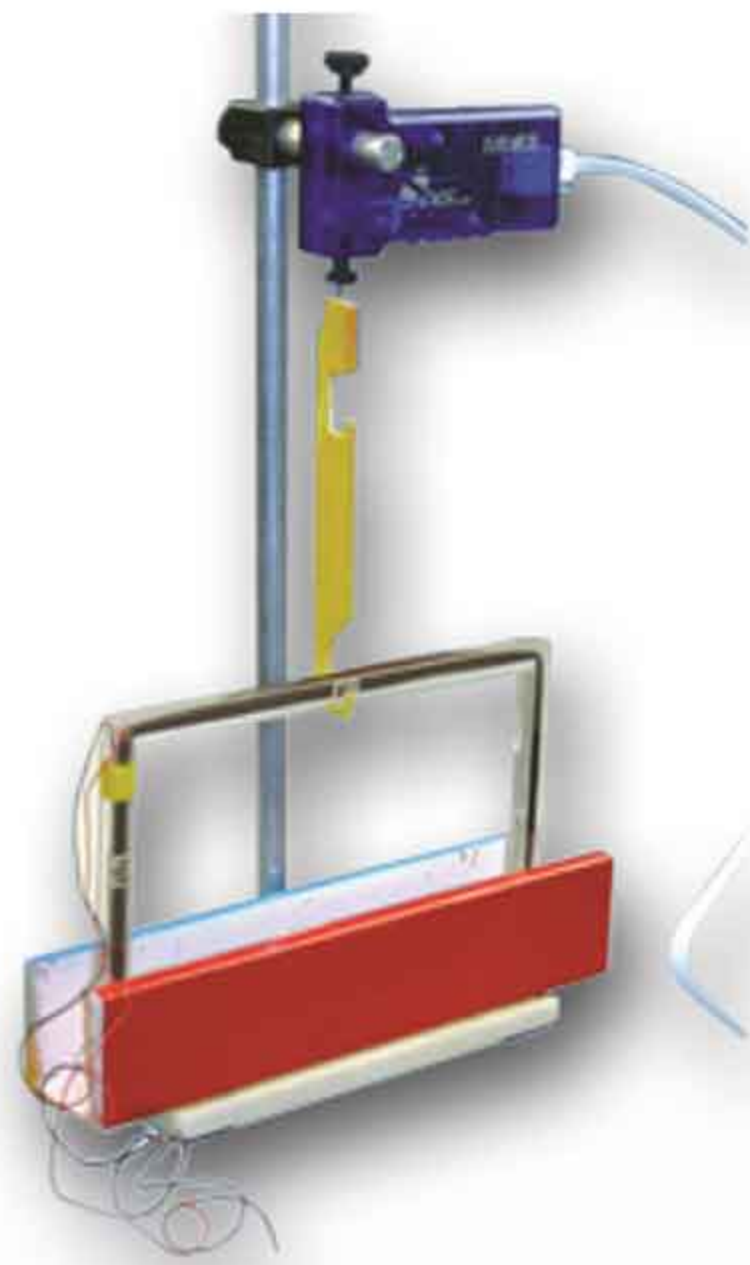
23pcs in total; provided with standard jack and switch, which can complete more than 30 electrical experiments.

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Lab Equipment



E28 Ampere Force Apparatus V1.0

Composed of strong magnetic base, rectangular wire frame, hook and support; use with current sensor and micro force sensor. It can be used to study the relationship between Ampere force, wire length and supply current.

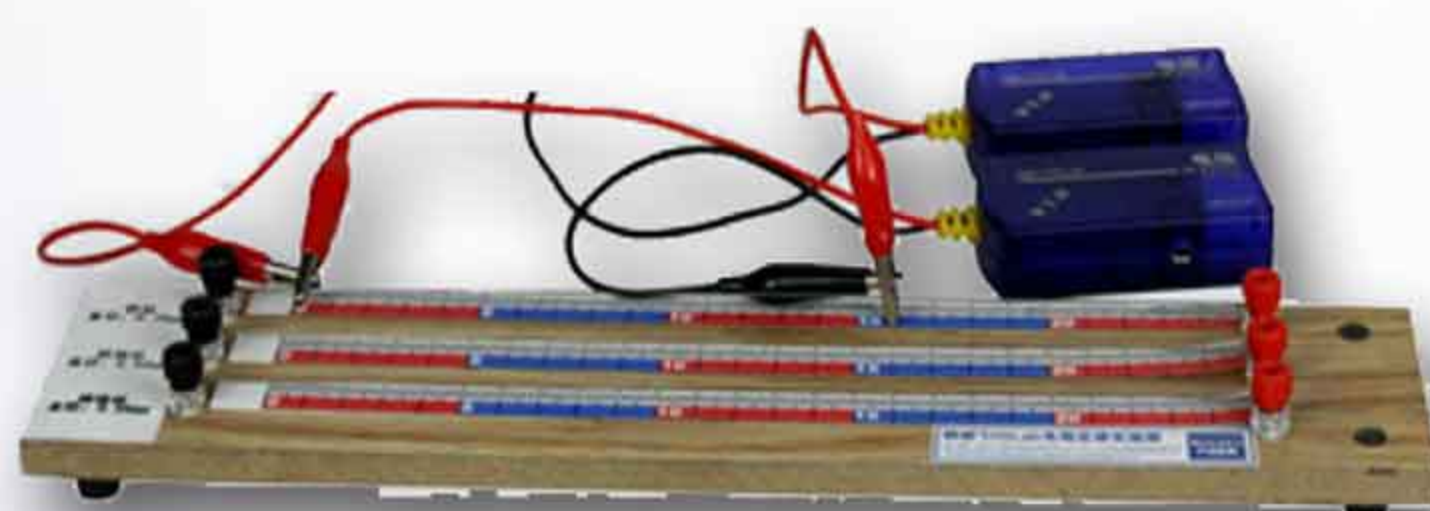
Note :

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E29 Ampere Force Apparatus V2.0

Composed of a base, magnets, rotary dial disc, hook and support; use with current sensor and micro force sensor and study the relationship between Ampere force, wire length, supply current and the angle between the directions of current flow and magnetic field.



E30 Resistance Law Apparatus

Composed of three kinds of mental wires and used with current sensor and voltage sensor. It's used to study the relationship of resistance's length and sectional area.



E31 Student Power Supply

It can swift AC output to DC output.
DC output: 1.5V~18V, continuous adjustable;
AC output: 0V~6V/50Hz; AC/DC independent regulation of amplitude of voltage; DC polar converter, short-circuit output function.

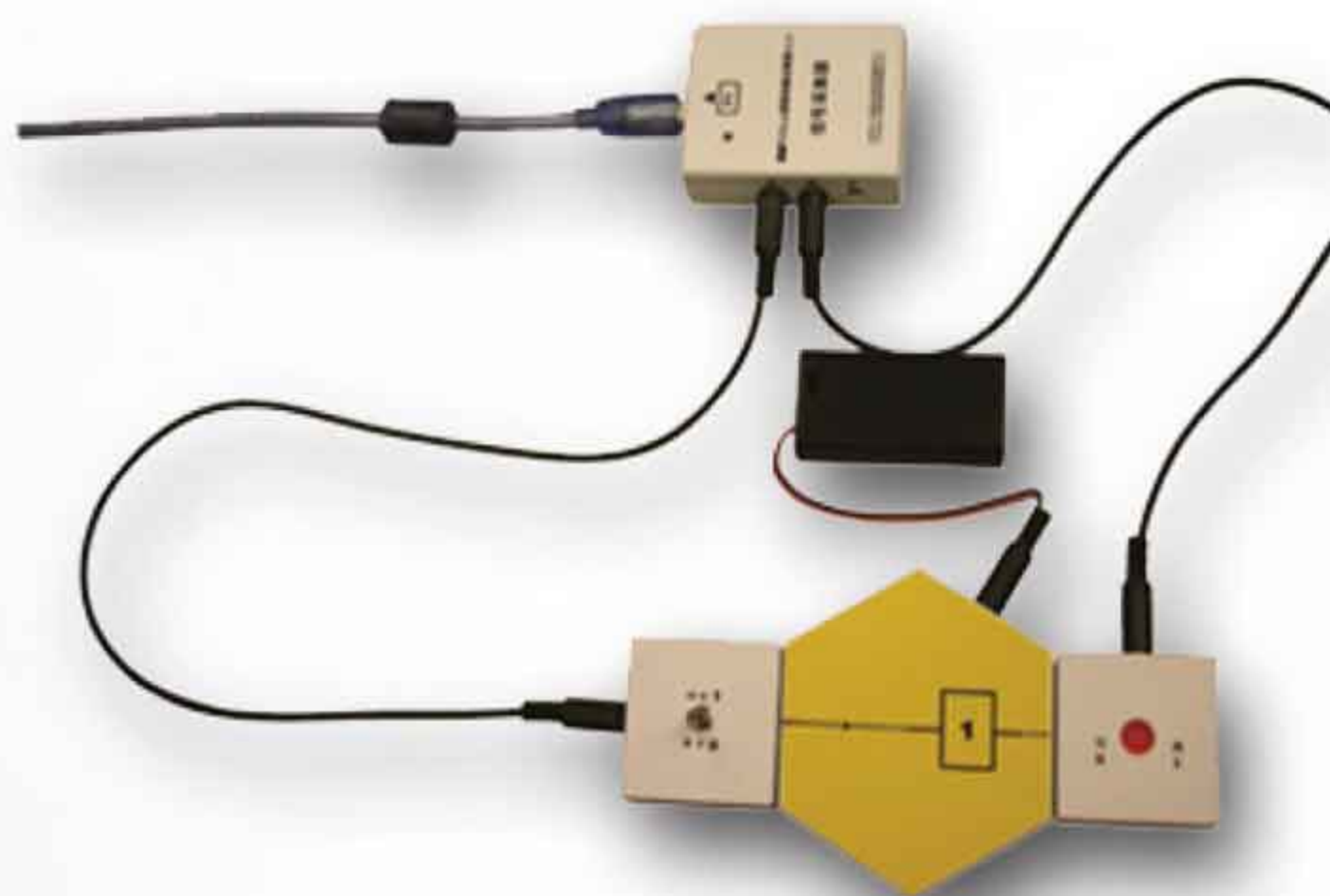


Lab Equipment



E32 Smart Power Supply

Two adjustment modes. Manual Mode: shift between AC and DC output. DC output: 1.5V~18V, continuous adjustable; AC output: 0V~6V/50Hz; AC/DC independent regulation of amplitude of voltage; Smart Mode: it can adjust single-cycle trapezoidal waveform, single-cycle triangle waveform and multi-cycle triangle waveform. The slope of waveform can be adjustable. It is the necessary item for Faraday's Law Apparatus II, which are used together to study relationship between the change rate of Magnetic Flux and Induced Electromotive Force.

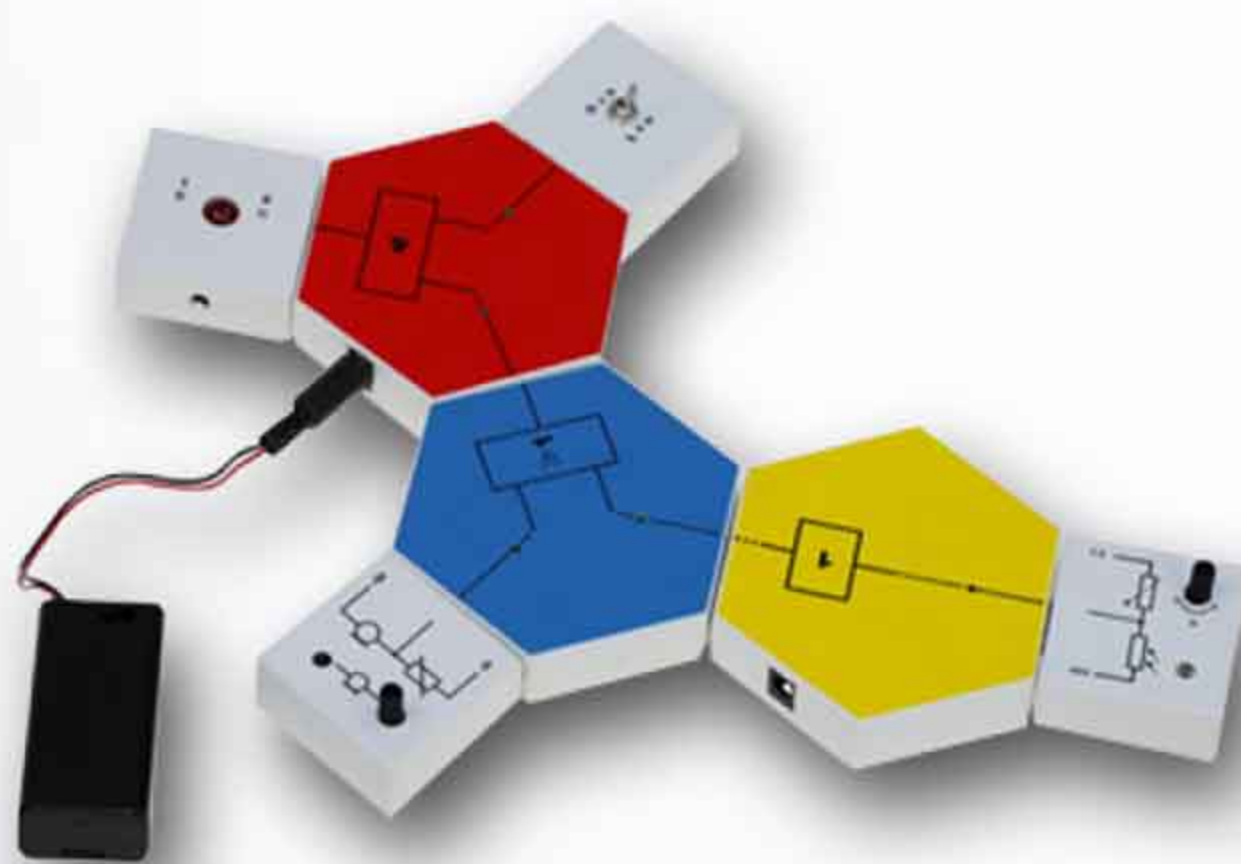


E33 Logical Circuits V2.0A

Composed of 23 components as and-or three kinds of gate circuits, 8 kinds of on-off circuits, 3 kinds of display modules, 3 kinds of connectors, power sources, signal collector. It can be used to make complex experiments such as digital circuits, automatic control, logical circuits analysis. Through the software, the input/output electric level can be shown to make data analysis.

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E34 Logical Circuits V2.0B

Composed of 15 components as and-or three gate circuits, five on-off circuits, two display modules, connector and power sources, which can complete complex digital circuit, automatic control and logical circuit experiments.



E35 Low Frequency Signal Generator

It has three optional output waveforms: sin, square and triangular; frequency can be adjustable continuously between 1Hz~2kHz; waveform amplitude can be adjustable continuously between 0~9V; It can be used to measure wave signal to conduct wave analysis assorted with electronic sensors.

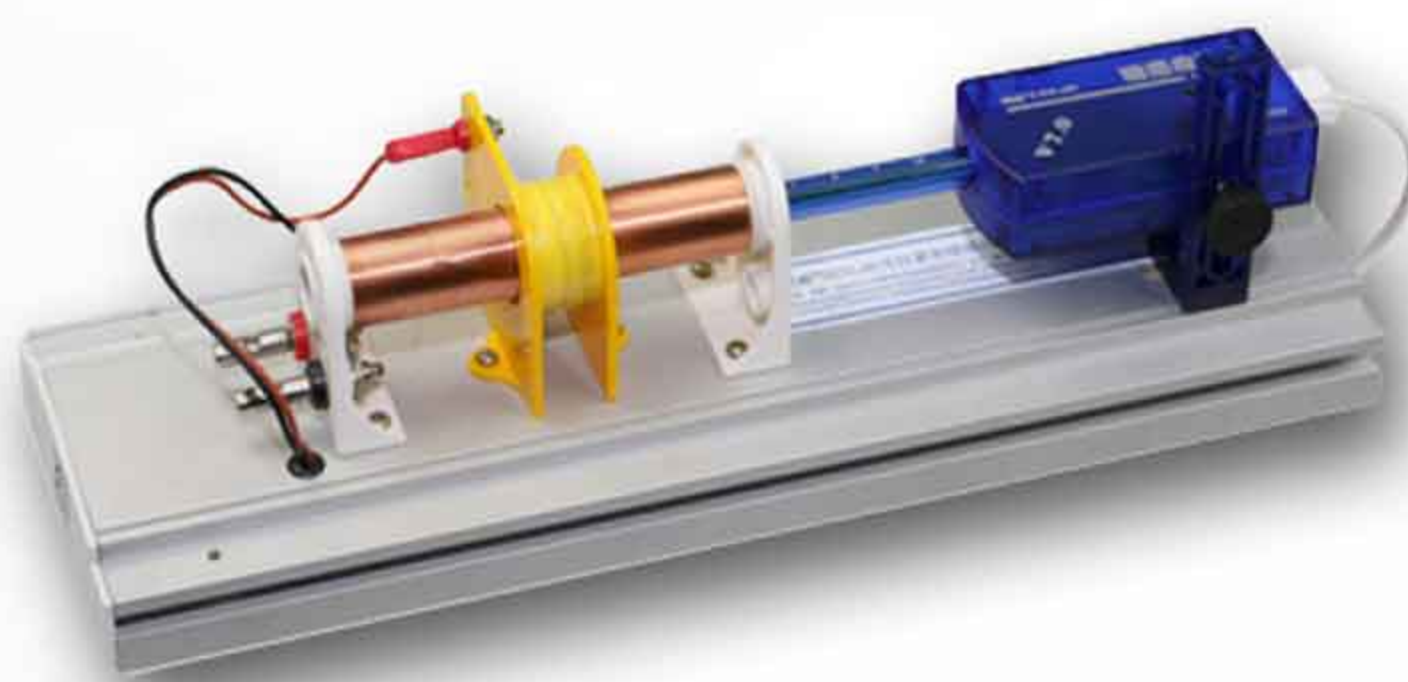


Lab Equipment



E36 Faraday's Law Apparatus I

Composed of base, movable coil and magnet. Measure data by built-in sensor, directly communicate with computer; can finish the experiment for studying the relations between the change rate of magnetic field and induced E.M.F.



E37 Faraday's Law Apparatus II

Composed of Base, primary coil and secondary coil. With a built-in Voltage Sensor to measure the Induced Electromotive Force. It can be communicated with the USB interface of PC. Used with smart power supply. It can study the relationship between the electromotive force and magnetic induction intensity.



E38 Electromagnetic Wave Apparatus

Three kinds of Waveforms: Sine, Square, Triangle. Carrier Frequency: 200Hz; Modulation frequency is adjustable. Modulation Wave Frequency: 2-20 Hz; It is powered by 4pcs of No.5 battery.

Note :

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E39 Joule's Law Apparatus

Composed of three calorimeters. It should be used with temperature sensors to study the relationship of heat effect of current, current and resistance.



Lab Equipment



E40 Electromagnet Apparatus

Composed of some coils in different turns, iron core and battery. It should be used with Magnetic Induction Sensor. It's used to measure the magnetic induction intensity of the coils induced under different experiment conditions.



E41 Modular Robot V1.0

Composed of sensor (sound photoelectricity), controller, and a variety of actuator.

Note :

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E42 Automatic Control Switch

It should be used with Ilongwill series sensors. Through set up the threshold to trigger or closed the switch and then actuate the actions of different actuators.



E43 Automatic Control Actuator

It should be used with Ilongwill series products. It can realize the automatic control function with build-in 3 kinds of actuators: indicator, alerter and electric motor. It can switch different actuators through the switch button.



E44 Neutralization Titration Apparatus

Composed of drop counter (opto-electrical sensor + positioner), support, adapter and bolts; used for measuring the volume of droplet.



Lab Equipment



E45 Sealing Apparatus

Used with chemical and biological sensors under a sealing condition. It is used to study biological experiments such as study photosynthesis, seed germination and respiration etc.



E46 Pocket Sealing Apparatus

It should be used with CO₂ sensor to study the photosynthesis and respiration of a leaf. It can record the content changes of CO₂.

Note :

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E47 Dilution Vessel

Inverted triangular beaker structure, the upper opening, the bottom of the closed, with uniform dropper. Used for the chemistry experiment, which dilution ratio is larger, and require the initial solution in a certain amount.



E48 Multi-directional adapter

Bidirectional cross; inside diameter of hole is applicable to standard iron support stand.



Lab Equipment



E49 Magnetic Fixed Support A

Triangular base assorted with three powerful magnets, Aluminum alloy support, which is applicable to fix large experimental apparatus.



E50 Magnetic Fixed Support B

Circular base assorted with powerful magnet, Aluminum alloy support, which is applicable to fixed sensor.



E51 Multifunctional Support

Composed of a Base, tube-type Bracket, data logger holder, and sensor holder. It can make data logger and sensors fixed properly, protect the sensors and improve the space utilization and experiment efficiency.



E52 Multi-Directional Sensor Support

Composed of a Base and Bracket. It can be adjustable in any direction and position.

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Lab Equipment



2-D Motion System
(E53 Signal Emitter+E54 Receiver)

Composed of transmitter and receiver. Transmitter is supplied by rechargeable battery; receiver communicates with USB interface of computer; receiver and transmitter, together with all kinds of Assorted Lab Equipments complete kinematics experiment and sketch the motion trail timely. Range: 0cm ~200cm, Division:1mm,Collecting frequency 50Hz.



E55 2-D Projectile Motion Device

Composed of support, base, buffer self-containing device, match up with two-dimensional motion sensor, sketch the moving objects in horizontal track in horizontal projectile and verify the laws of horizontal projectile motion.



E58 2-D Motion Composition and Resolution

Composed of base and longitudinal motion device, simulate the synthesis and metabolism of images in two-dimensional plane, and study the laws of synthesis and metabolism of motion.

Note :

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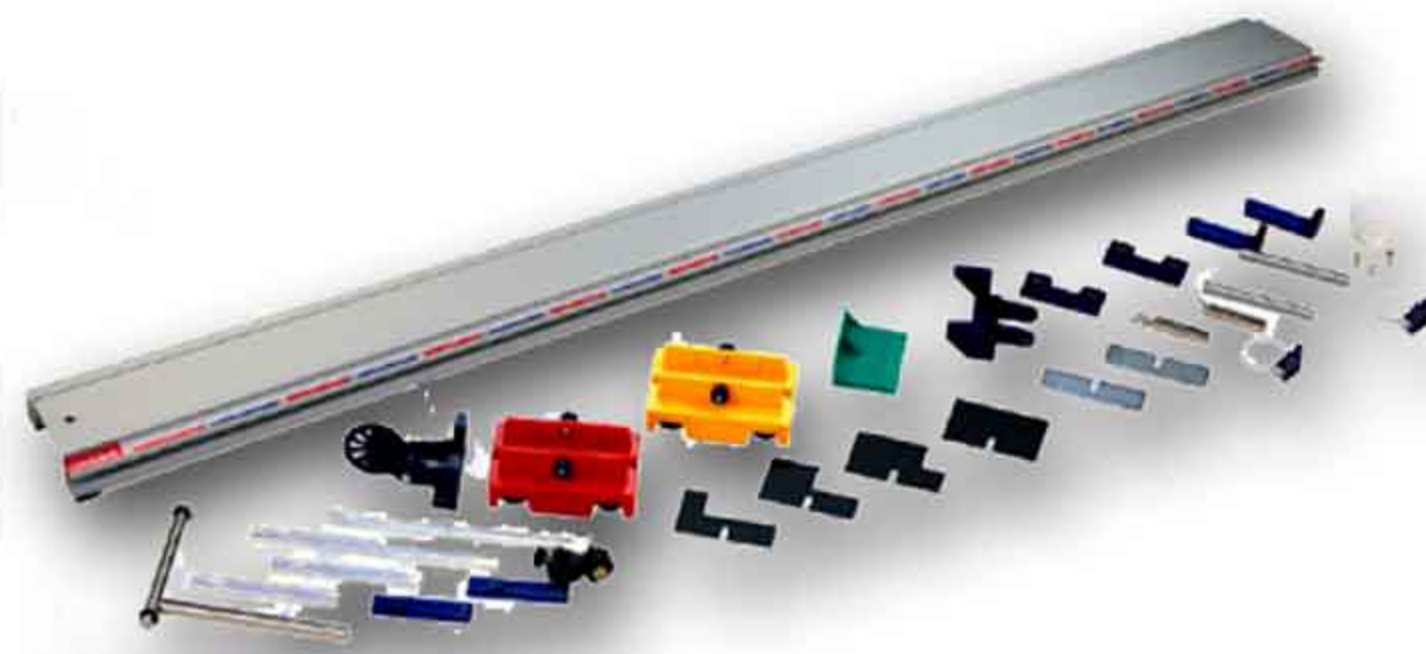


E56 2-D Simple Pendulum

Composed of iron stand and support, sketch single pendulum track in two-dimensional plane, measure the period of a simple pendulum and analyze the acceleration of gravity.



Lab Equipmer



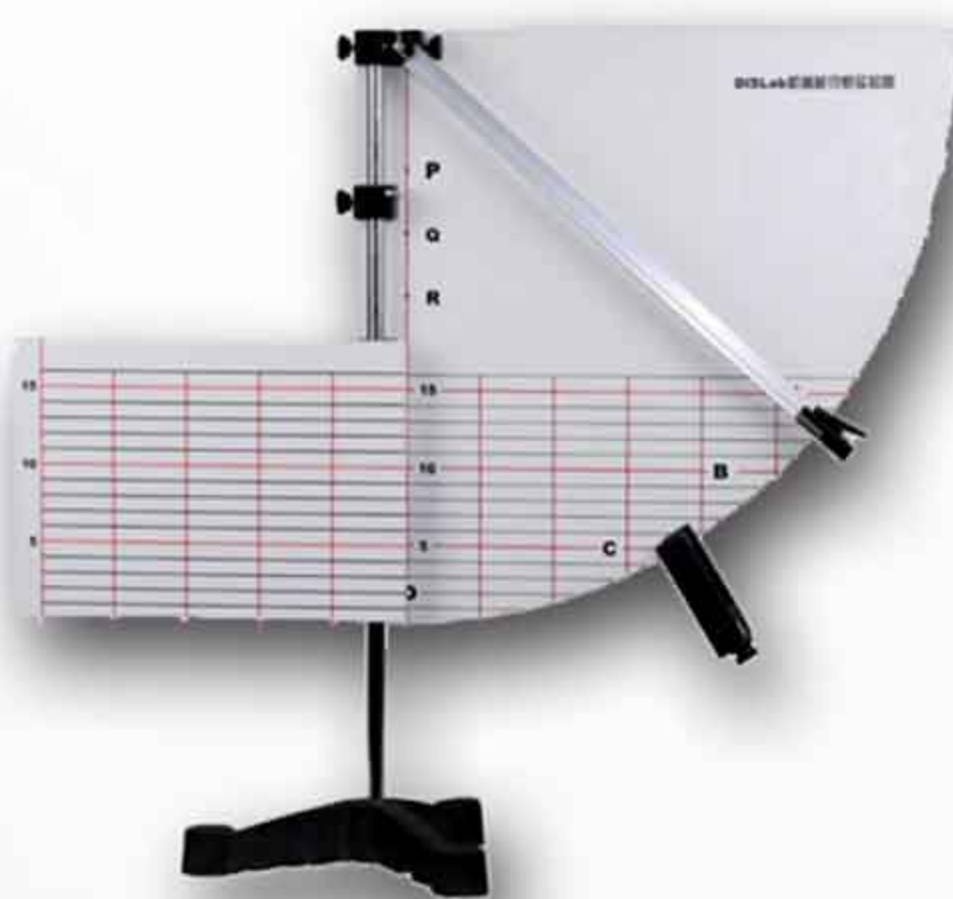
E01 Multi-Purpose Track Motion System

Standard configuration: 1pc of aluminium track in 1.2m, 2 sets of carts, 2 springs, 2 fixed legs, 4 pcs of Mass (50g), 4pcs of Mass 5g, 1pc of kibble, 5 pcs of light barriers (width are 2cmx2, 4cm, 6cm, 8cm), 1pc of friction block, 2pcs of magnetic collision piece, 2pc elastic touching rings, 1 set of pulley, 1set of magnetic touching base, 1 set of cart absorber, 1 set of track degree transducer, 1pc of T-type support, 2pcs of L-type bracket, 4pcs of I-type bracket, 2pcs of plastic I-type bracket, 1 pc of mechanical driver, and 1 set of fasteners.



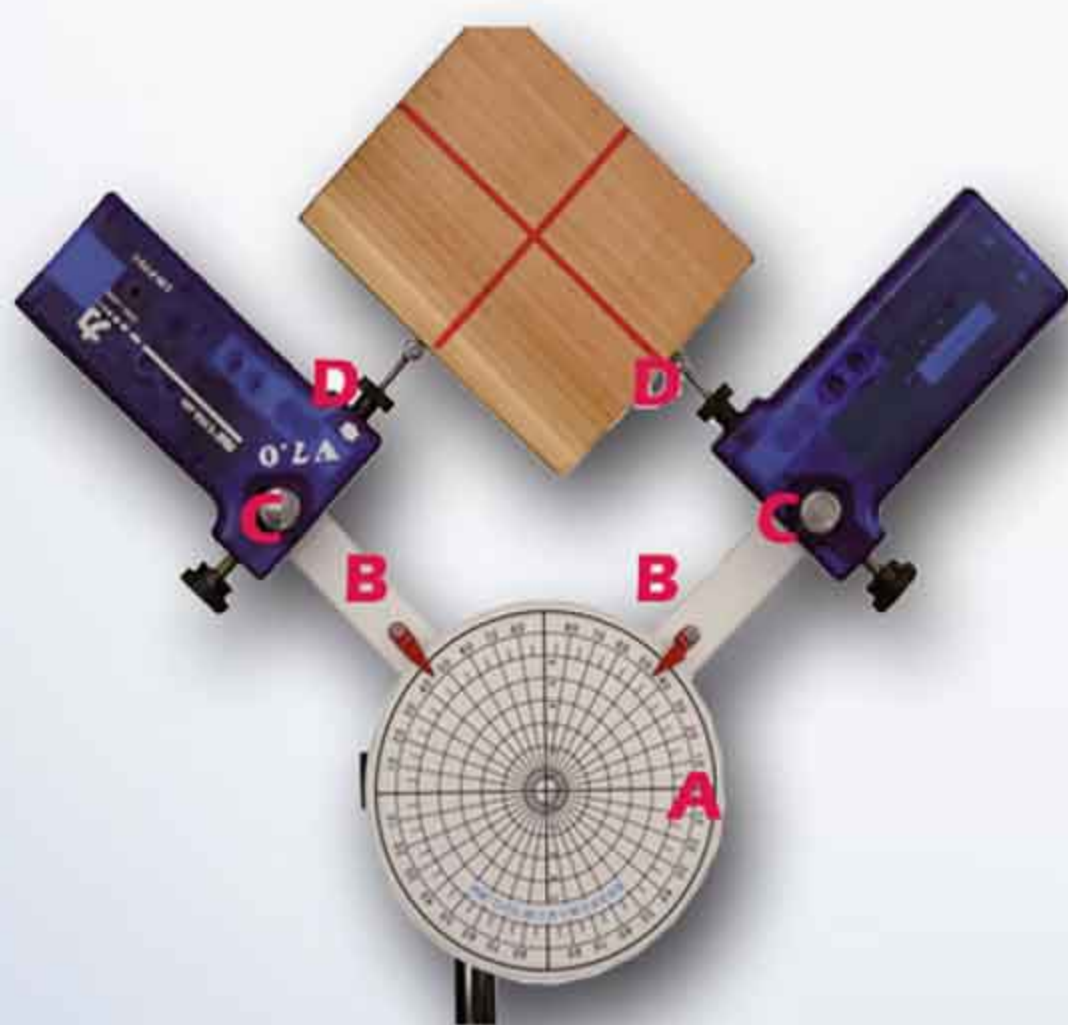
E02 Centripetal Force Apparatus

Composed of main frame, base, Mass, radial arm, connecting device and fasteners. It can rotate freely without the drive motor.



E03 Mechanical Energy Apparatus

Include main board, sub plate, cylindrical pendulum, fixed arm, planometer and bolts, etc.. Capable of finishing the experiment of mutual conversion of potential energy and kinetic energy (Qualitative and quantitative)



E04 Force Resolution and Composition

Precise torque plate with scale; the included angle can be adjusted; roller match up with force sensor; standard square block.

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