

Ballistics Experiment Kit

cat. 23563

Teaching and learning
through experimentation

A unique experimental kit designed to demonstrate clearly and precisely the complete topic of ballistics in a 3D space.

The kit is designed to assist in teaching the following topics:

- Free Fall.
- Inclined Throws (all angles).
- Horizontal throws.
- The law of Conservation of Momentum and Energy in a two Dimensional Collision.

Dimensions in Cm.: L: 50, W: 38, H: 40

The kit was awarded the **worlddidac** seal of quality.



The horizontal axis (t) represents the duration of travel of the ball downward along the vertical axis (y). The green plot shows path of the ball that is released from the electromagnetic ball holder and which free falls. The blue plot shows the path of the ball that is fired from the ballistic gun at an upward angle. Where the plots meet represents the point of collision of the two balls in the air.



Operating Panel

Karmi Interlab develops, manufactures and supplies a wide range of science educational products (Physics, Chemistry, Biology and Technology), for all school levels and universities.

Karmi Interlab provides high quality, innovative and easy to use products.

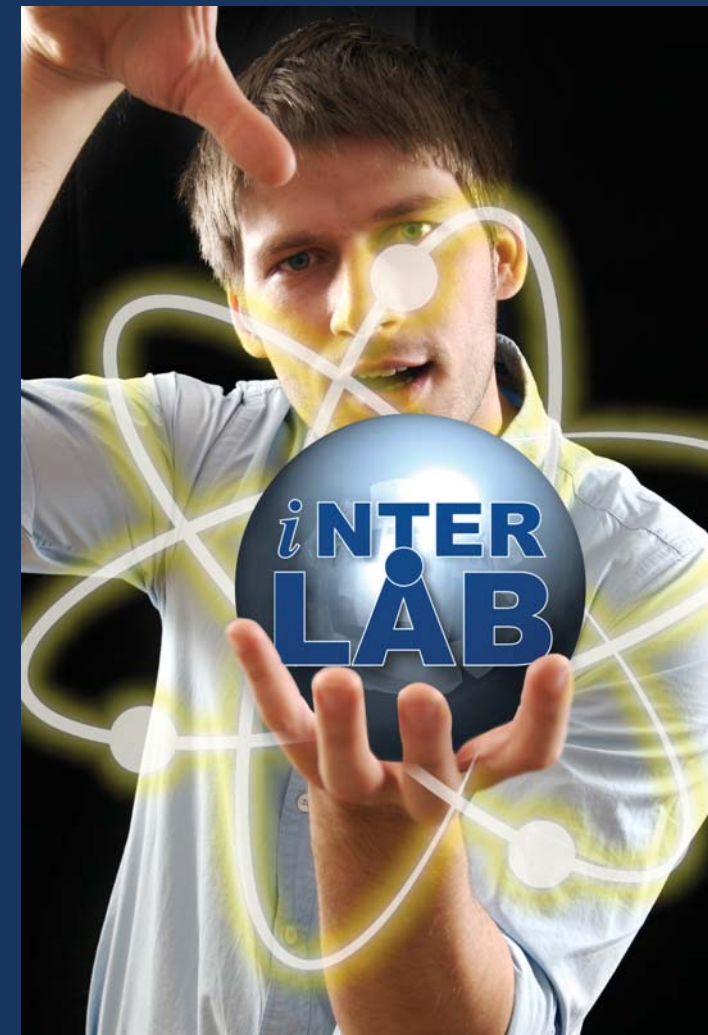
Our products have also received international recognition and success. They are exported to many countries around the world and have been exhibited at international competitions. Karmi Interlab have been awarded the certificate of quality by **Worlddidac**, the global trade association for the education industry.

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ADVANCED TECHNOLOGY FOR APPLICATION IN SCIENCE ORIENTED STUDIES

Karmi Interlab Ltd.
awarded the prestigious
Worlddidac Seal of Quality
for our Ballistics Experiment Kit



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Light reflection experiment *cat. 123774*

Designed for teaching topics related to reflections and mirrors.

The kit allows experiments such as:

- Correlation of number of images on the angles between mirrors.
- Images in parallel mirrors.
- 3D images.

Kit dimensions in Cm's:
L: 26, W: 23, H: 22



Pulley Demonstration Set *cat. 23566.1*

Designed for teaching the following topics:

- Mass, weight and force of gravity.
- Centre of gravity.
- Types of cranes.
- Fixed pulleys, mobile pulleys and their uses.
- Inclined planes, advantages and disadvantages.
- Connection and subtraction of forces
- Decomposition of forces to their components
- Coefficient of friction, static and kinetic.

Kit dimensions in Cm's: L: 47, W: 26, H: 75



Electrolysis experiment *cat. 25119*

The Electrolysis experiment kit allows the visualization of the decomposition of water (H_2O) into Oxygen (O_2) and Hydrogen (H_2) gas as a result of an electric current being passed through the water.

Kit dimensions in Cm's: L: 22, W: 13, H: 26



Photo Electric Effect kit *cat. 23791.1*

The kit is designed for the study of "Photo Electric Effect" and enables the calculation of "Planck constant".

The kit contains photoelectric cells a Potentiometer, a light source and a set of filters.

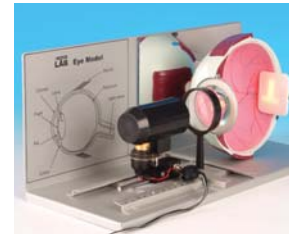
Kit dimensions in Cm's:
L: 9-12, W: 5-8, H: 5-16



The Eye Model *cat. 23798*

This model illustrates the construction of the eye and the way light rays strike the retina. Demonstrates the physics of vision by which spectacles correct eyesight in cases of myopia and hyperopia.

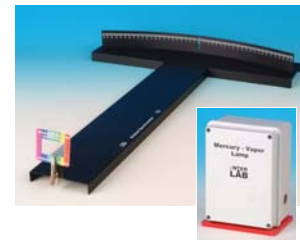
Kit dimensions in Cm's:
L: 38, W: 15, H: 16



Spectrometer Lattice *cat. 23783.2*

The kit is designed for learning interference and diffraction. This instrument enables calculating the wavelength of different light sources.

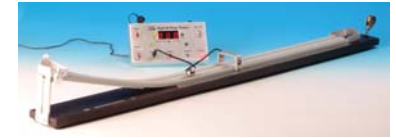
Kit dimensions in Cm's:
L: 60, W: 45, H: 7



Mechanical experiment *cat. 23545*

The kit is designed for studying the following topics:

- The phenomena of Kinematics (Momentary speed, Average speed, The motion of bodies, Linear motion).
- Dynamics (Static and kinetic frictional force, Newton's law)
- Impulse and momentum (Conservation of momentum, Process of momentum in a plastic & elastic collision).
- Energy (The law of the conservation of energy, Friction work)



Kit dimensions in Cm's: L: 111, W: 10, H: 14

Capacitor Board experiment *cat. 23666.1*

The Capacitor board kit facilitates the study of "capacitors and capacitance". The kit enables research into the dependency of the capacitor capacitance on the dielectric substance between the capacitor's boards.

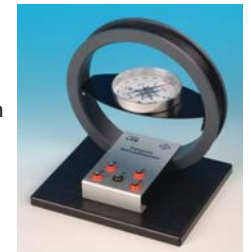
Kit dimensions in Cm's:
L: 26, W: 23, H: 17



Tangent Galvanometer *cat. 23654*

The kit aids the study of "the Earth's magnetic field". The galvanometer assists in ascertaining the strength of the Earth's magnetic field, understanding the connection between the current strength and the field strength that is created and to investigate the influence of the field strength on the compass needle.

Kit dimensions in Cm's:
L: 18, W: 15, H: 23



Energy Experiment *cat. 23567*

The Energy experiment kit allows the detailed study and visualization of the process of transformation of energy: Potential energy changes into kinetic energy.

Kit dimensions in Cm's:
L: 80, W: 10, H: 33

