



MizarLabs
Science-tainment Design Factory

mimo

MODULAR EXPERIMENTAL SETUPS

MiMO

**A JOURNEY OF
DISCOVERY IN
SCIENCE.**

Portable Exhibits that
spark scientific
curiosity, taking young
visitors on a journey of
exploration.

The MiMa product line offers hands-on science experiences for ages 6 to 18 in portable, adaptable formats, designed for any space with options for independent or co-learning. MiMa exhibits cover a wide range of scientific topics, with:

- **MiMa Pro:** Compact suitcases with durable, interactive components for advanced science topics.
- **MiMa Box:** A multi-panel exhibit ideal for small spaces, providing deep scientific engagement.

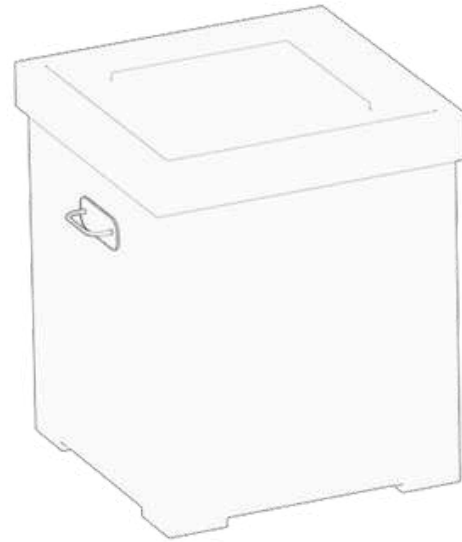
MiMa exhibits are designed to create meaningful scientific experiences in any environment.



1

Flexible Education Experience with Portable Science Sets

Designed for portability, MIMA science sets bring hands-on learning anywhere—whether in classrooms, outdoor spaces, or on the go. Their lightweight, practical design makes it easy to organize engaging scientific activities in a variety of settings.



2

Modular Structure Offering Training Opportunities Across Various Subjects

MIMA's modular structure allows each set to cover various branches of science, offering a wide range of content—from mechanics and mathematics to physics and biology. This versatile design provides children with engaging and comprehensive learning experiences across multiple scientific disciplines.

3

Suitable for STEM Education

MIMA offers experiment sets suitable for education programs focused on science, technology, engineering and mathematics (STEM). These contents contribute to children's development of analytical thinking, problem solving and creativity skills.



4

Flexible and Customizable Learning Content

MIMA Sets' contents are customizable to meet the needs of various age groups and knowledge levels. They offer a versatile range of experiments suitable for both classroom and outdoor use.

MIMA SERIES



mima
Box

mima
Pro



Textures
Textures

Materiali Circuetti
Materiali Circuetti

Four vertical panels showing different textures: green, red, grey, and black.

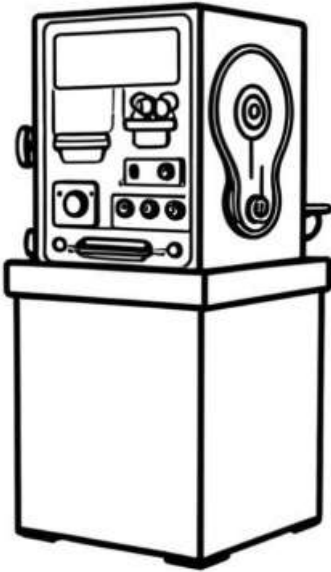
Dambang
Dambang

Tel Binar
Tel Binar

Two panels: one with colorful horizontal bars and another with a guitar illustration.

MiMa

Box



MIMA BOX is a game-changing solution for science enthusiasts seeking a practical, hands-on way to conduct experiments beyond the classroom. With endless MIMA BOX options, each offering four unique experimental setups, it's perfect for sparking curiosity and exploration. Each MIMA BOX is packaged in a convenient, portable design, making transportation and setup effortless. Tailored for extracurricular activities, it's an ideal choice for science clubs, camps, and educational events, bringing science to life wherever learning happens.

Interactive Electronics

Safe Low-Voltage Design

Child-Friendly Interface

Hands-On Learning

Compact Industrial Aesthetics

Independent Exploration

Intuitive Instructions

Engaging Visual Graphics

Mizarlabs' Mima Project encapsulates a world where science principles are not just learned but experienced, ensuring that each child leaves with a sense of wonder and a deeper grasp of the scientific fabric of the world around us.

Audience	Suitable for ages 6 and above
Languages	Customizable
Accessibility	Universal Design



1. EASY TO CARRY AND SET UP ANYWHERE

With its lightweight and ergonomic design, the MIMA box can be easily transported to any location. **Bring science to your desired space effortlessly.**



2. UNBOX AND GET READY TO EXPLORE

Open the box and carefully take out the materials. Everything is neatly organized and ready for use!



3. SETUP MADE SIMPLE

Each box comes with clear instructions. **Follow the easy steps in the guide to quickly set up your experiment** and get ready to explore science!



4. START EXPERIMENTING RIGHT AWAY

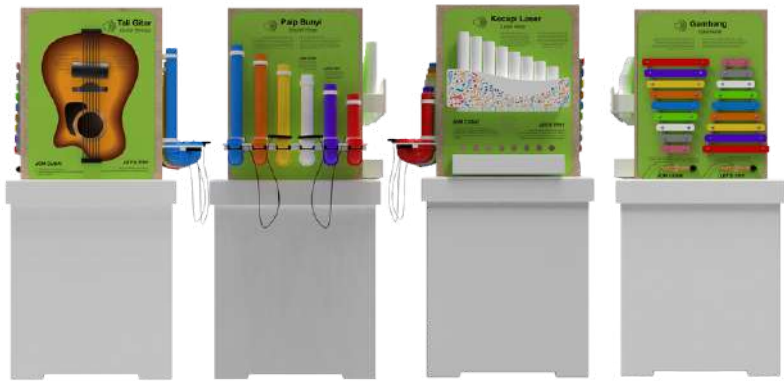
Once setup is complete, kids can **jump right into their experiments!** MIMA boxes are designed for immediate use, making learning fun and engaging.



ILLUSIONS BOX



SOUND BOX



SIMPLE MECHANICS BOX



MATHEMATICS BOX

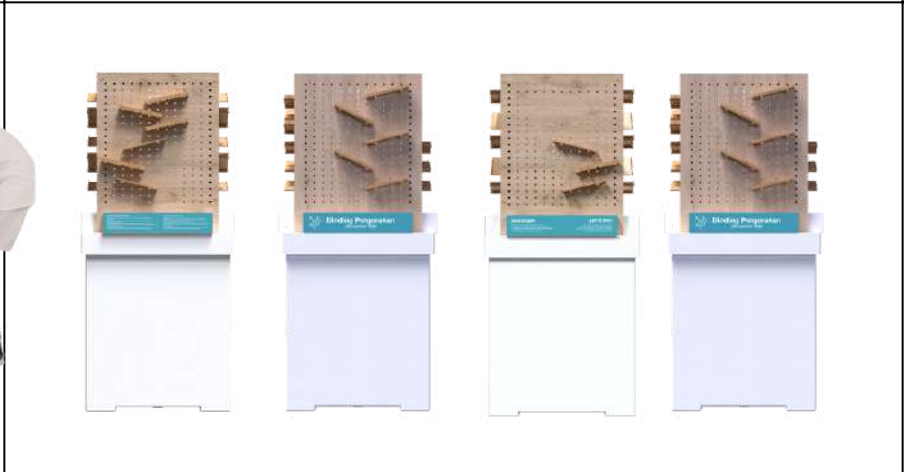




MATERIALS BOX



MOVEMENT BOX



REFLEX BOX



BERNOULLI BOX





ILLUSIONS BOX

This illusions setup invites children to explore the captivating world of visual perception. Through dynamic optical effects and interactive elements, it demonstrates how the brain interprets visual stimuli. The experience is designed to engage young minds with surprising phenomena that challenge their sense of reality, sparking curiosity and wonder.

M-MB-IL



SOUND BOX

This music and acoustics set up lets children discover the basics of sound wave propagation. Colorful musical elements and experiments showcase how sound travels through different mediums, offering a comparative experience that resonates with the innate rhythm and curiosity of young minds.

M-MB-SD



SIMPLE MECHANICS BOX

The mechanics box unpacks the workings of mechanical systems, showing how they exist in everyday machines. This hands-on exploration introduces young visitors to the basics in a safe and fun way, letting them interact with simplified mechanical models to see how things move and work.

M-MB-MK



MATHEMATICS BOX

The Mathematics Box is a trove of tactile experiences, bringing mathematical concepts to life through engaging visual and interactive experiments. Water elements, tinkering with wooden puzzles, and mind-bending mathematical challenges allow children to explore statics, the Pythagorean theorem, probability, and more in a tangible, playful context.

M-MB-MT



MATERIALS BOX

For the materials box, materials were carefully selected to represent an array of surfaces and substances for children to explore. Real samples of wood, copper, marble, grass, and leather are not only aesthetically pleasing but are also arranged to encourage interaction and sensory engagement. Incorporating real-world elements, this box allows children to draw connections between the tactile experiences provided and the materials they encounter in their daily lives.

M-MB-MR



MOVEMENT WALL

The Movement Wall exhibit lets children explore motion and gravity through hands-on play. By adjusting ramps and paths, they can control how objects move, learning how angles affect speed and direction. This interactive wall turns learning into a fun, creative experience that makes the basics of motion easy to understand.

M-MB-MW



BERNOULLI BOX

The Bernoulli Blower exhibit is designed to introduce young learners to the scientific concept of air pressure and fluid dynamics. Equipped with an electric system, this interactive module features a blower that propels air upwards, demonstrating how air pressure can suspend objects in mid-air and illustrating the relationship between velocity and pressure in fluids.

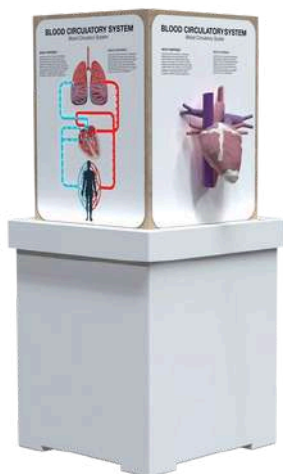
M-MB-BB



THE REFLEX BOX

This modular box combines an intricate electronic system with vibrant colors and dynamic graphics to create an interactive learning experience. Upon pressing the start button, the exhibit springs to life with sticks moving up and down, challenging children to catch them. This hands-on activity not only tests their reflexes but also visually demonstrates how quick responses are part of the human body's natural reactions. The design is carefully tailored to captivate and educate, making the concept of reflexes both understandable and fascinating for young learners.

M-MB-RX



HUMAN ORGAN SYSTEMS BOX

The Human Organ Systems exhibit engages young visitors through hands-on interaction with detailed models and visuals. Children can explore how vital organs like the heart and lungs function together, learning about the circulatory and respiratory systems. With tactile elements and easy-to-understand explanations, this exhibit offers an interactive experience that helps children grasp the essential processes that keep the human body alive and working.

M-MB-HO



BOTANY BOX

The Botany Box exhibit lets young visitors explore the fascinating world of plants through hands-on interaction. With rotating dials and flip panels, children can learn about plant anatomy, photosynthesis, and the life cycle of plants. This interactive experience uses tactile elements to engage visitors, allowing them to connect with botanical concepts in a fun and educational way. The exhibit encourages curiosity while providing a clear understanding of how plants grow and sustain life.

M-MB-BY



GARDEN INSECTS

The Garden Insects exhibit allows young visitors to discover the tiny creatures that inhabit gardens. Through interactive panels and rotating dials, children can learn about different insect species, their roles in the ecosystem, and how they contribute to garden health. This hands-on exhibit engages visitors with tactile and visual elements, helping them understand the important roles insects play in nature while sparking curiosity about the world beneath their feet.

M-MB-GI



GEOLOGY

The Geology MIMA Box allows young visitors to delve into the Earth's layers in an interactive and engaging way. By manipulating various components, children can explore the structure of the Earth—from the crust to the core—gaining a clear understanding of its composition. This hands-on exhibit makes geology approachable, providing a dynamic learning experience that brings Earth's processes to life in a memorable way.

M-MB-GY



MARINE BIOLOGY BOX

The Marine Biology Box takes young visitors on an underwater journey to explore life beneath the waves. Through interactive displays, children can learn about marine ecosystems, the diversity of sea creatures, and how different species adapt to their environments. This hands-on exhibit brings the wonders of the ocean to life, offering an engaging way for children to dive into the fascinating world of marine biology.

M-MB-MB



ASTRONOMY BOX

The Astronomy Box captivates young visitors with dynamic graphics and interactive simulations that bring the cosmos to life. Children can explore the mechanisms behind telescopes, observe how astronomers capture images of distant galaxies, and interact with displays that simulate the movement of planets and stars. This hands-on exhibit offers an immersive experience, making the mysteries of space both engaging and understandable through visual storytelling and interactive mechanisms.

M-MB-AM

MiMO Pro

Ω

Ohm's Law Hands-on Exhibit

Georg Simon Ohm found the connection between voltage, current, and resistance by determining that the current passing through a wire is directly proportional to the area it passes through and inversely proportional to its length.



1 Press the power button and start the system.



2 Increase the voltage by rotating the potentiometer.



3 Observe the relationship between voltage, current, and the brightness of the lamp.

Fotografçı:

Photographer

Yunus Güzel

Andromeda Galaksisi



MIMA PRO offers a versatile collection of exhibits, all packed into durable, portable cases for easy transport and quick setup. Designed with clear, self-guided graphics that adapt to different age groups, these exhibits empower children to dive into hands-on exploration with minimal supervision. From electricity and circuits, including Ohm’s Law, to topics like viscosity, magnetism, and mechanics, MIMA PRO delivers a rich variety of scientific experiences. With tens of interactive exhibits, it’s the ideal choice for science centers, schools, and educational programs looking to engage students in immersive, in-depth learning across multiple fields.

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STATIC DOME

The Static Dome MIMA Pro exhibit gives visitors a chance to explore static electricity in action. Through hands-on interaction, participants can observe how static charges build up and create visible effects inside the dome. This compact and portable exhibit provides a clear and engaging way to understand the principles of static electricity and its everyday applications.

M-MP-SD



EARTHQUAKE TABLE

The Earthquake Table MIMA Pro exhibit allows visitors to simulate seismic activity and explore how buildings respond to different earthquake intensities. Equipped with a potentiometer, visitors can control the strength of the shaking and observe the effects on a model structure. This hands-on experience offers a practical demonstration of earthquake dynamics and helps visitors understand the importance of structural design in earthquake-prone areas.

M-MP-ET



THE HEART DRUM

The MIMA PRO Heart Drum exhibit offers a unique way to visualize and experience the rhythm of a human heartbeat. Using a pulse sensor, participants can place their hand on the device, which then translates their heartbeat into sound, simulating the rhythmic "drumming" of the heart. This interactive exhibit helps users understand the function of the heart and the patterns of a heartbeat, making it an engaging and educational experience for learning about the cardiovascular system.

M-MP-HD



POWERED GENERATOR

The Power Generator exhibit offers visitors a dynamic, hands-on experience with electricity generation. By turning the knob, they can directly feel the effort needed to produce energy, which lights up different types of bulbs. This tactile interaction highlights the energy demands of each bulb, offering a clear understanding of energy efficiency and the principles of power generation. It's an engaging way to connect physical effort with the science of electricity, making abstract concepts easy to grasp.

M-MP-PG



PARALLEL CONNECTION

MIMA PRO's Parallel Connected Circuit module provides a hands-on and immersive experience to explore the basic electrical principles of parallel circuits. Thanks to this mechanism, users can learn by observing the relationship between current and voltage in parallel connected circuits. By turning on and off each circuit arm separately with the control buttons, users can easily monitor the relationship between the current and the resistance and the changes in lamp brightness. The Parallel Connected Circuit module is an ideal educational tool for understanding the functioning of electrical circuits.

M-MP-PC



OHM'S LAW

MIMA PRO's Ohm's Law provides an immersive, hands-on experience to explore basic electrical concepts. This mechanism, which visualizes Georg Simon Ohm's discovery, enables learning by observing the relationship between voltage, current and resistance in simple circuits. Users can instantly observe the relationship between voltage, current and lamp brightness when changing voltage using the potentiometer. This module is an ideal learning tool to teach the basic principles of electrical circuits.

M-MP-OL



SERIES CONNECTION

MIMA PRO's Series Connected Circuit module allows you to learn the basic principles of serial circuits in a practical way. Turn on the system by pressing the button and observe the changes in current, voltage and lamp brightness with the control buttons. In series circuits, the total voltage is the sum of the voltages of all resistors, the main branch current is constant, and the voltage varies with the resistor size. This module is an ideal tool to understand the operating principles of series circuits.

M-MP-SC



FINGER VOLTAGE

The Finger Voltage module allows you to experience the effects of electric current on the human body. After your hands are placed on the conductive circles, a friend turns the wheel, creating an electric current. Watch the changes in the ammeter and voltmeter and observe how you feel when your hands are on the circles. When the wheel is turned, alternating current is created and when the circuit is closed, the current passes through your body and completes the circuit.

M-MP-FV



THE ELECTRIC MOTOR

The Electric Motor MIMA Pro exhibit invites visitors to work together by pressing three start buttons simultaneously to initiate the motor's rotation. As they synchronize the activation of each coil, they can witness how electrical energy is transformed into mechanical motion, setting the magnet in motion. This interactive experience demonstrates the principles of electromagnetism in a dynamic and engaging way, allowing visitors to see firsthand how electric motors power the machines we use every day.

M-MP-EM



THE CIRCUIT TABLE

The Circuit Table exhibit lets visitors dive into the world of electric circuits by allowing them to create their own connections. Once they open the lower case, they'll discover various circuit elements that can be combined to power different components. This hands-on experience encourages visitors to experiment with electricity, giving them the opportunity to see how circuits work by building their own and observing the results in real time. It's an engaging way to learn about the basics of electrical systems and circuitry.

M-MP-CT



THE SPECTROMETER

The MIMA PRO Spectrometer offers a hands-on way to explore how light interacts with matter. Encased in a compact, durable case, this portable exhibit lets users analyze light sources through an easy-to-use spectrometer, revealing their spectral signatures. With clear, age-adaptable instructions, it's perfect for science centers, classrooms, and educational programs, bringing the principles of light and spectroscopy to life in an engaging, interactive format.

M-MP-SP



LIGHT SPECTRUM

The MIMA PRO Light Spectrum exhibit focuses on the science behind RGB (Red, Green, Blue) color mixing. Users can explore how different combinations of these primary colors create a full spectrum of colors, demonstrating the principles of additive color mixing. This hands-on exhibit allows visitors to observe how RGB light sources combine to form white light and how varying the intensity of each color changes the resulting spectrum. With clear, scientific explanations, this exhibit makes the fundamentals of light and color perception accessible for science enthusiasts and students alike.

M-MP-LS



LASER TABLE

The Laser Table exhibit offers a hands-on exploration of laser light behavior and optics. This exhibit allows users to manipulate lasers and observe how they interact with various materials and surfaces, demonstrating principles such as reflection, refraction, and diffraction. Through direct interaction, visitors can experiment with the behavior of laser beams as they pass through lenses or reflect off mirrors, gaining a deeper understanding of key optical concepts.

M-MP-LT



THE REFLEX METER

Reflex Meter exhibit challenges visitors to test and measure their reaction times. By responding to randomly illuminated buttons as quickly as possible, visitors can gain insight into human reflexes and the factors that influence them. This interactive exhibit allows visitors to track and compare their response speeds, exploring the relationship between stimulus and reaction. Ideal for educational environments, the Reflex Meter offers a fun, hands-on way to understand the science behind reflexes and human performance.

M-MP-RM



THE PRINCIPLE OF VISCOSITY

The Principle of Viscosity exhibit allows users to explore how different fluids resist flow under varying conditions. Through the use of different liquids, participants can observe how viscosity affects the speed and movement of fluids when subjected to force. This hands-on experiment demonstrates the core scientific concept of viscosity, helping users understand how it influences everything from industrial processes to natural phenomena.

M-MP-VY



THE MAGNETS TABLE

The Magnets Table exhibit offers an engaging exploration of magnetic fields and forces. Users can interact with various magnets to observe how magnetic fields attract or repel objects and understand the principles of magnetism. This hands-on exhibit allows participants to experiment with magnetic materials, discovering how magnets work, their poles, and the invisible forces that drive them.

M-MP-MT



THE LASER PATH

The MIMA PRO Laser Path module allows you to explore the principles of directing a laser beam to reach a target. Press the start button to activate the laser, and adjust the mirror's position to guide the laser through the receivers. When the radio signal reaches the target point, the speaker activates, enabling you to observe the precise path of the laser and the effect of directed light.

M-MP-LP



STANDING WAVE TUBE

The MIMA PRO Standing Wave Tube exhibit demonstrates the concept of wave interference and resonance. Press the start button, adjust to find the optimal frequency, and observe the movement of foam beads within the tube. As sound travels through the tube, it reflects off the walls and returns, creating overlapping waves. When the frequency and pitch reach the right level, the sound waves resonate, producing a standing wave effect visible through the bead movement.

M-MP-SWT

THANKS!

merhaba@mizarlabs.com

    / mizarlabs

Gökçe Mah. Gökçeköy Cad. No:18/1 Nilüfer
Bursa, Türkiye

