



Labdisc™ THE AWARD-WINNING ALL-IN-ONE SCIENCE LAB FOR K-12

Wireless, compact data logger for every science class, with up to 15 built-in sensors

BUILT FOR HANDS-ON STEM LEARNING

- **All-in-one** – up to 15 built-in sensors in one compact device
- **Wireless & portable** – use it anywhere: classroom or outdoors
- **Simple & immediate** – real-time results students understand instantly
- **Curriculum-aligned lesson plans** – ready-to-teach activities for K-12
- **GlobiLab X** – the new, modern software for measurement & analysis



WATCH IT HERE



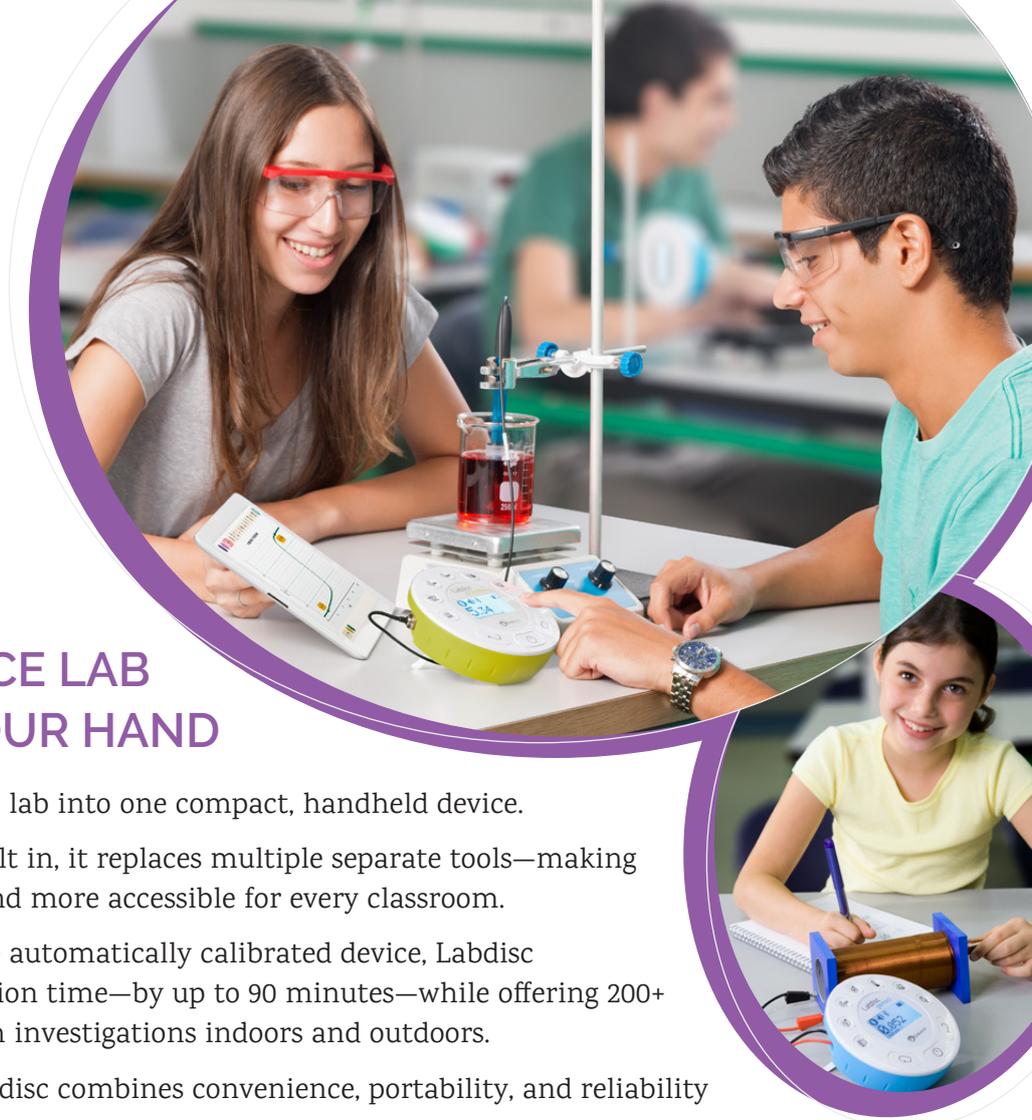
THE LABDISC — ALL-IN-ONE SCIENCE LAB IN THE PALM OF YOUR HAND

Labdisc brings a complete science lab into one compact, handheld device.

With up to 15 wireless sensors built in, it replaces multiple separate tools—making hands-on science easier, faster, and more accessible for every classroom.

By combining all sensors into one automatically calibrated device, Labdisc significantly reduces lab preparation time—by up to 90 minutes—while offering 200+ hours of battery life for long-term investigations indoors and outdoors.

Designed specifically for K–12, Labdisc combines convenience, portability, and reliability to support real classroom teaching.



CURRICULUM-ALIGNED LESSON PLANS INCLUDED

Labdisc comes with ready-to-teach lesson plans covering core K–12 science topics.

The classroom activities:

- Provide over 1,000 pages of experiment guides covering nearly 40 science topics
- Include complete guidance: theory background, experiment setup, data collection, and analysis
- Align with local curriculum requirements

ONE DEVICE. ENDLESS POSSIBILITIES

Labdisc supports a wide range of hands-on science experiments, across physics, chemistry, biology, and environmental science.

Students can:

- Explore motion, sound, light, temperature, pressure, and more
- Collect real-time data and instantly visualize results
- Investigate everyday phenomena both indoors and outdoors
- Work independently or in groups with minimal setup

Digital data logging replaces manual measurements, allowing students to focus on observing, analyzing, and understanding scientific concepts.



The Labdisc product family for different scientific fields: **Gensci** - General Science | **Biochem** - Biology & Chemistry | **Physio** - Physics | **Enviro** - Environment Studies



GLOBILAB X — A MODERN, INTUITIVE WAY TO TEACH WITH LABDISC

Connect your Labdisc, choose your sensors, and start an experiment within seconds. GlobiLab X combines an attractive, student-friendly design with powerful tools for data collection, analysis, and lab reporting—making every experiment easier to run and easier to understand.

Available across all major platforms, including a web-based version.

FAST SETUP. SMOOTH LESSONS

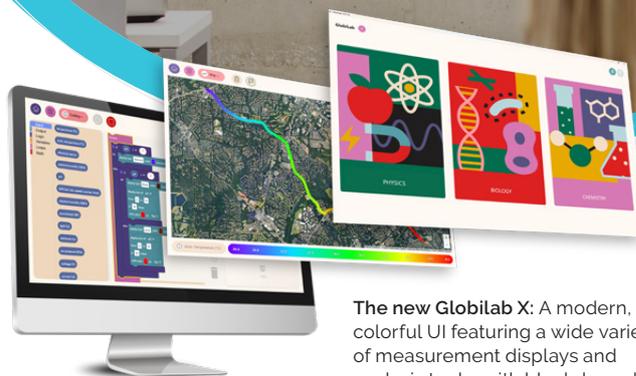
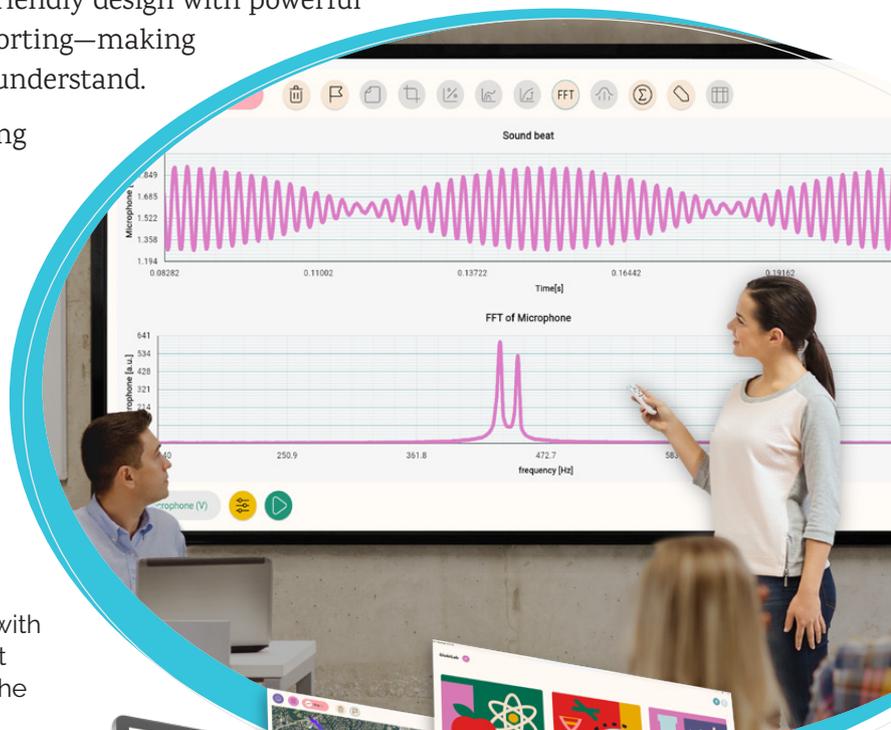
- One-click Bluetooth or USB connection—no pairing, no hassle.
- Select sensors in one click and start measuring right away
- Full control over the data logger and built-in sensors

LIVE DATA THAT STUDENTS IMMEDIATELY UNDERSTAND

GlobiLab X displays real-time experiment results with clear, engaging visuals—helping students connect science concepts to what they see happening in the moment.

POWERFUL GRAPHS & ANALYSIS

- Go beyond basic graphs with tools designed for classroom learning:
- Zoom, markers, and graph annotations
- Crop and focus on the exact part of the experiment
- Statistics and advanced analysis tools, including regression and derivatives



The new GlobiLab X: A modern, colorful UI featuring a wide variety of measurement displays and analysis tools, with block-based coding driven by sensor values



Classroom solution:
Charge, store, and organize up to 8 Labdiscs in a single, compact station.

LOCATION-BASED DATA WITH GPS

Using the Labdisc's built-in GPS sensor, GlobiLab X automatically links measurements to their geographic location, displaying sensor data as a color-coded layer over Google Maps.

This provides students with a powerful data-visualization tool for outdoor investigations and place-based learning, especially in environmental and field-study projects.

NEW: CODING SUPPORT WITH BLOCKLY

- Bring coding into science with drag-and-drop programming:
- Build coding skills through hands-on experiments
- Log data and trigger actions based on measurements

AWARDS
WON BY
LABDISC:



Intel®
Education
Alliance



SPECIFICATIONS



LABDISC GENSCI



LABDISC ENVIRO



LABDISC PHYSIO



LABDISC BIOCHEM

SCIENCE PARAMETER	GENERAL SCIENCE	ENVIRONMENT	PHYSICS	BIOLOGY & CHEMISTRY
Supported platforms	Standalone, Web, Windows, macOS, iOS, Android, ChromeOS			
Built-in sensors	Air Pressure Sound Level Current GPS Microphone Light Motion Relative Humidity pH Voltage Amb. Temperature Ext. Temperature Universal Input	Barometer Sound Level Colorimeter Dissolved Oxygen (elec- trode sold separately) GPS, IR Temperature Amb. Temperature Ext. Temperature pH UV Relative Humidity Turbidity Universal Input	Accelerometer Air Pressure, Amb. Temperature Current Ext. Temperature Light Low Voltage Microphone Motion Sound Level Universal Input Voltage	Air Pressure Amb. Temperature Barometric Pressure Colorimeter Conductivity Dissolved Oxygen (elec- trode sold separately) Ext. Temperature GPS Heart Rate Light pH Relative Humidity Thermocouple Turbidity, Universal Input
GPS data logging	Yes	Yes	No	Yes
Remote data logging	Yes	Yes	Yes	Yes
Max. sampling speed	100,000/s	10/s	100,000/s	100/s
Sampling resolution	12-bit			
Int. measurement storage	1,000,000 samples			
Int. rechargeable battery	LiPO 3.6 V			
Battery life	> 200 hours			
Display	Graphical LCD, 64 x 128 pixels			
Keypad	Yes			
USB communication	USB 2.0			
Wireless communication	Bluetooth Low Energy (BLE) 5.1			
Automatic sensor testing	Yes			
Auto sensor calibration	Yes			
Size (round disc)	ø = 132, H = 45 mm			
Weight	300 gr.			
Temperature range	-10 to 50 °C			
Standard compliance	CE, FCC			
External power supply	100-240V AC / 6V DC 1A			
Software	GlobiLab X			
Accessories	Carry bag (optional)			

ABOUT GLOBISENS

Globisens is a global leader in hands-on STEAM learning solutions, empowering students with products like the Labdisc and Xploris to explore science, technology, engineering, art, and math through real-world experiments. With over 150,000 devices installed in more than 30 countries and 20 languages—and 8 international gold awards—Globisens brings cutting-edge technology and engaging learning tools to classrooms worldwide.



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