



mimio[®]STEM

by Boxlight[®]

MimioSTEM solutions open the door to inquiry-based learning in all four STEM fields: science, technology, engineering, and mathematics. Consistently, simply, and quickly make STEM part of your everyday lessons with Robo 3D printers, Labdisc all-in-one Science Labs, and Xploris, a comprehensive STEAM device for K-5. Each of our MimioSTEM solutions are coupled with MyStemKits, a K-12 STEM curriculum platform based on research, that provides everything you need to use your STEM products successfully and effectively in your classrooms.

boxlight.com/stem



robo

*3D Printer Packages Built for Education:
Everything you need to be successful in an educational environment.*



robo E4 Pro
Large Volume Professional 3D Printer

robo E4
High-Speed 3D Printer

INCLUDED WITH EVERY ROBO 3D PRINTER PURCHASE:

- **Starter Plan license to [MyStemKits.com](https://www.mystemkits.com) K-12 integrated 3D printable STEM curriculum** with over 480 lessons and design challenges for implementation into schools.
- **Extended 2-year warranty.**
- **2-hour online training.**
- **Teacher certification course** (unlimited seats).
- **Student certification course** (unlimited seats).
- **Spare Parts** pack.
- **500g roll of material** (filament).

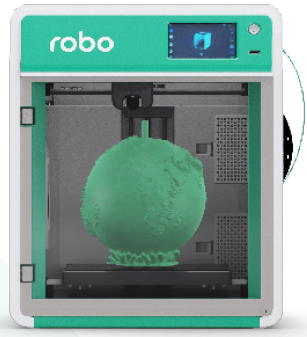


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Comparison Chart



Parameters	Robo E4	Robo E4 Pro
Print Size	220 x 220 x 220 (height) mm ~8.7 x 8.7 x 8.7 inch	300 x 250 x 340 (height) mm ~11.8 x 9.8 x 13.4 inches
Machine Size	380 x 400 x 453mm without spool ~14.9 x 15.7 x 17.8 (height) inch	496 x 436 x 696 (height) mm 19.5 x 17.2 x 27.4 inches
Max Print Speed	600mm/s	250mm/s
Max Print Temperature	280°C	320°C
Filament	Open source: Recommended: PLA, PETG, TPU Additional Materials: ABS, ASA, PLA-CF, PETG-CF (Some materials may require custom nozzles.)	Open source: Recommended: PLA, PETG, TPU Additional Materials: ABS, PC, PA, HIPS, ASA, PA-CF, PLA-CF, PETG-CF, PETG-GF (Some materials may require custom nozzles.)
Print Bed & Levelling	Heated, Flexible, Automatic Levelling	Heated, Flexible, Assisted Levelling

Both the E4 and E4 Pro have the following specifications:

- **Fully-Enclosed**
- **HEPA Filter**
- **Filament Runout Detection**
- **Power Loss Recovery**
- **Onboard Camera**
- Print via Wi-Fi (2.4 or 5 GHz), Ethernet, or USB Stick
- Full-Color Touch Screen
- Quiet Operation (around 50-60dB)
- 2-Hour **Online Training Course**
- Quick-Removeable Nozzle (0.4mm standard, with additional size nozzles available)
- Free Desktop (PC or Mac) Software RoboPrint and free cloud-printing via RoboCloud
- Compatibility with any 3D design software capable of export .stl files including Tinkercad, Blender, SketchUp, 3DS Max, OnShape, Fusion 360, and more.
- Both Teacher & Student **3D Printing Certification Courses** (unlimited seats)



Both the E4 and E4 Pro include a **Starter Plan to MyStemKits.com**. Choose up to 5 kits from a library of over 250 ready-to-3D print models and over 480 standards-driven lesson plans and design challenges. Ask about bundling in an unlimited plan!

To learn more, visit mimiostem.com/3D-printers or call 1.866.972.1549.



Labdisc

Portable STEM lab with up to 15 built-in sensors.



INCLUDED WITH EVERY LABDISC PURCHASE:

- **Starter Plan license to MyStemKits.com K-12 integrated STEM curriculum** with lessons for implementation into schools
- **Automatic sensor calibration** for zero set-up time
- **Bluetooth** capability
- Multi-platform Globilab **software**
- **2-hour online training**

Features & Specifications

- Multi-platform Globilab software included with all purchases. Supported platforms: Standalone, PC, MAC, iOS, Android, Linux, and Chrome OS
- Remote Data Logging
- 12-bit Sampling Resolution
- Internal Memory Storage: 128,000 Samples
- Internal LIPO 3.6V Rechargeable Battery
- Over 150 Hour Battery Life
- Graphical LCD Display, 64 x 128 pixels
- USB 2.0 Connection
- Wireless Bluetooth V2.0 Communication
- Automatic Sensor Testing and Calibration
- Size: 132mm Diameter, 45mm Height
- Weight: 300 grams
- Temperature Range: -10 to 50°C
- CE & FCC Compliant
- External Power Supply: 100-240V AC/12V DC 1A



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Labdisc

Comparison Chart



SENSORS						Available
	Sensor	GenSci	Biochem	Enviro	Physio	Add On
	Accelerometer				X	X
	Air Pressure	X	X		X	
	Ambient Temperature	X	X	X	X	
	Barometer		X	X		
	Colorimeter		X	X		
	Conductivity		X			
	Current	X			X	X
	Distance	X			X	
	Dissolved Oxygen		X* Probe Sold Separately	X* Probe Sold Separately		
	External Temperature	X	X	X	X	X
	GPS	X	X	X		
	Heart Rate		X			X
	Infrared			X		
	Light	X	X		X	
	Low Voltage				X	
	Microphone	X			X	
	pH	X	X	X		
	Relative Humidity	X	X	X		
	Sound Level	X		X		
	Thermocouple		X			
	Turbidity		X	X		
	Ultraviolet Light			X		
	Universal Input	X	X	X	X	
	Voltage	X			X	X
UNIQUE FEATURES						
	Maximum Sampling Speed	24,000/s	100/s	10/s	24,000/s	

Additional add-on sensor options include the following: *External CO2 Sensor, External Respiration Sensor, Magnetic Field Sensor.*

xploris

An All-in-One Integrated STEAM Solution for K-5 Learners



NEW!



INCLUDED WITH EVERY XPLORIS PURCHASE:

- **Starter Plan license to [MyStemKits.com](https://www.MyStemKits.com) K-12 STEAM curriculum platform.**
- Multi-platform XploriLab **software** (see reverse).
- **2-hour online training.**
- **5 built-in sensors:** temperature, light, sound, distance, voltage, (heart rate sold separately).
- Charging and storage **tray.**



Features & Specifications

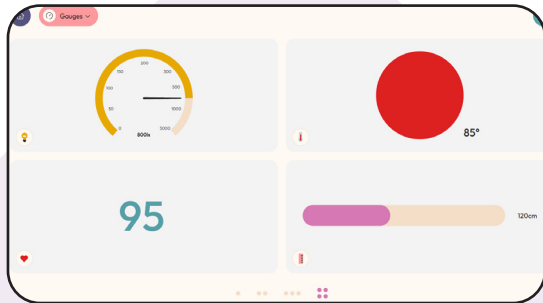
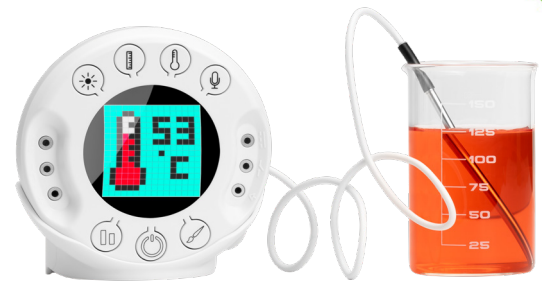
- Auto-calibrated.
- USB 2.0 and BLE 4.2 connectivity.
- 150 hour battery life (with screen off), 8 hours (screen on)
- Servo outputs allow controlling small servos.
- Image-based readings to enhance understanding.
- Remote data collection.
- 100 samples/second max speed.
- 100,000 samples memory size
- 30 animations or 1800 still image memory size.
- 16 x 16 pixel LED dot matrix.
- Rechargeable LIPO 3.7V battery.
- Windows 11, Android, iOS compatibility.

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XploriLab Software Interfaces



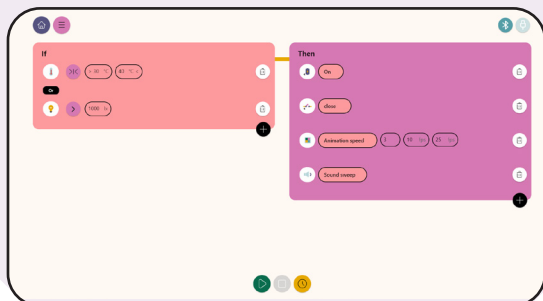
SENSING

- Select which **sensors** you would like to **view**.
- Select how you would like to view them.
- **Software updates in real time** both visually and with numerical values.
- The **Xploris screen** also updates live with visual indicators.



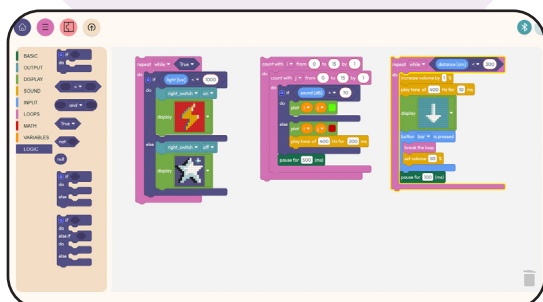
DATA LOGGING

- Set up **experiments** with one or more sensors.
- View the data as a **bar graph, line graph, or table**.
- Add **markers and annotations**. Zoom or crop your graph.
- Download cached experiments or run them live.



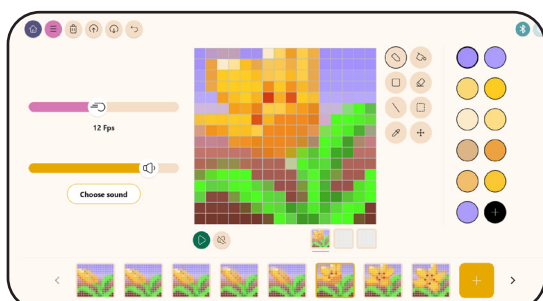
CONTROL

- Set up simple **if/then statements**.
- Control the screen, servo outputs, 5V outputs, or electronic switches to **respond to sensor readings**.
- *Example: As the temperature increases, increase the speed of the "molecule" animation.*



CODE & ROBOTICS

- **Program** in Blockly or Python.
- **Control** your Xploris using loops, if/else statements, variables, and more. Determine inputs and outputs.
- **Drive** your Xploris by adding motors and a robotic base (not included).



ART & MUSIC

- Create still **images or animations** on a 16x16 pixel grid.
- Compose **music** on a simplified piano keyboard.
- Design on 3 **layers** and duplicate frames.
- Set animation speed and sound.
- **Send images and animations** to your Xploris screen.



MyStemKits.com

Standards-Driven STEAM Curriculum, Virtual STEM Kits, and 3D-Print Library



Content Includes (where applicable):

- 3D-printable manipulatives or virtual STEM kits
- Multi-page Teacher Guides
- Student Handouts
- Design and Coding Procedures (PDF & Video)
- Student Assessments
- Teacher Answer Keys

INCLUDED WITH EVERY MYSTEMKITS SUBSCRIPTION PURCHASE:

- **36-month** access to online library (Starter Plans are only 12 months).
- Choose from **over 440 lessons** and 40+ STEAM Design Challenges for your 3D printers, MyBot robots, and Labdisc sensors.
- **Virtual STEM Kits** for use in-person, hybrid, and remote learning.
- Over **250 ready-to-3D-print kits** designed for classroom use.
- Content driven by NGSS, Common Core, and State **Standards**.
- **3D-printer management** tools compatible with 75 types of printers.
- School Plans include printer sharing across accounts.
- Built-in **training videos** and resources.

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Make STEM Learning Impactful

Select the plan that best fits your needs.

Parameters	Teacher Plan	School Plan
Teacher licenses	1	10
Number of kits	UNLIMITED access	UNLIMITED access
Ready-to-print 3D models	✓	✓
Virtual STEM kit simulations	✓	✓
Assembly and implementation guides	✓	✓
Teacher guides Student handouts Student assessments Answer keys Programming procedures Design procedures	✓	✓
Printer sharing		✓
Admin controls & analytics		✓

Sample Activities:



Shade Structures
Grade: K | S.T.E.A.M.
Labdisc & Robo



Bicycle Delivery Routes
Grades: 3-4 | T.M.
MyBot & Robo



Gliders & the Pythagorean Theorem
Grade: 8 | S.M. | Robo



Hominin Evolution
Grades: 9-12 | S.
Robo

To learn more, visit www.MyStemKits.com and sign up for a free trial today!

