The future of Data powered learning transform your STEAM programs today with databot™!
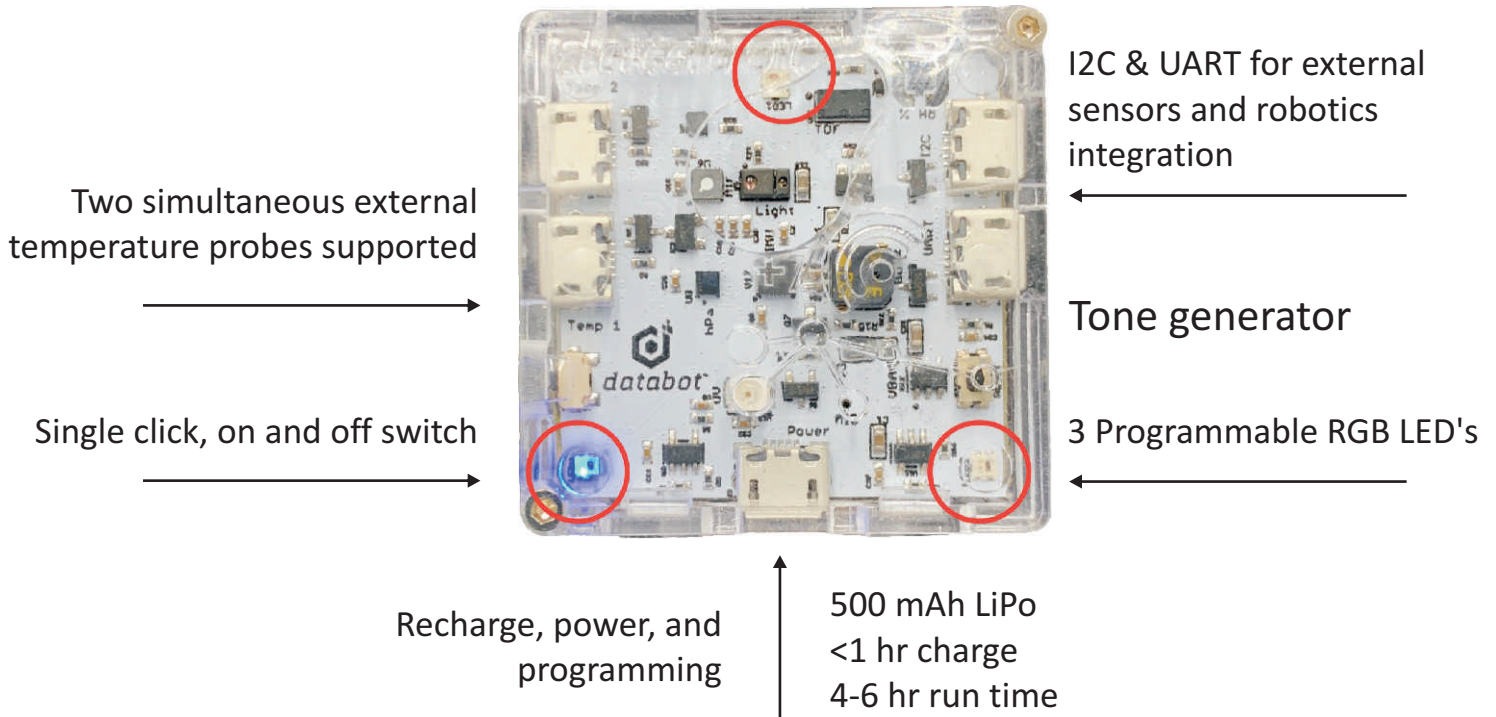
One Unstoppable STEMachine!

There is no educational technology on the planet that is a better value for educators looking to inspire the next generation of scientists, engineers, mathematicians, and explorers to become world change agents! One device empowers students to explore science phenomena in chemistry, physics, earth science, and life science with engaging lessons and activities. It is completely programmable with light, sound, and expansion ports for integration with other systems ranging from robots to drones. Truly .

Tiny enough to fit in the palm of your hand, but rugged and versatile for all kinds of STEAM explorations you can launch it on a rocket, control a robot, create an interactive light show, fly a drone mission, collect environmental data, and so much more.

Product

Low profile, micro USB connections. Pinouts provided for integration and hacking projects

I2C & UART for external sensors and robotics integration

Two simultaneous external temperature probes supported

Tone generator

Single click, on and off switch

3 Programmable RGB LED's

Recharge, power, and programming

500 mAh LiPo
<1 hr charge
4-6 hr run time

Sensors

- Accelerometer
- Air Pressure
- Altimeter
- Ambient Light
- Co2
- Color
- Gesture
- Gyroscope
- Humidity
- Magnetometer
- Proximity (Time of Flight)
- Sound
- Temperature Probe
- UV
- Volatile Organic Compounds

Technical

- ESP32 WROOM 4 MB
- WiFi
- Bluetooth

Problem

STEAM is complex

- IoT
- Design Challenges
- DIY
- Physics
- AI
- Environment
- Metaverse
- Drones
- IT/Neworking

- Physical Computing
- Electronic Art
- Cybersecurity
- Chemistry
- Life Science
- Data Science
- Python
- Biochemistry
- ML

- Coding
- Robotics
- Arduino
- Mathematics
- Earth Science
- Electronics
- Javascript
- Astronomy

Science is expensive

Accelerometer +Altimeter + Gyroscope

Gas Pressure

Ultraviolet A

3 Axis Magnetic Field

CO2

Light and Color

Proximity

Temperature Probe

Sound

Humidity

Ethanol

Solution

STEAM Simplified

One incredibly versatile device supports learning exploratons in science, math, data science, coding, IT, and a variety of other STEAM topics. One device simplifies training and support while facilitating cross-disciplinary integration.

Sensor Science for All

At a disruptive price point that is 5x - 10x less than existing solutions, databot breaks down the price barriers preventing widespread adoption of sensors in the K12 classroom. Add one touch simplicity that educators love and sensors in every classroom bring science to life.
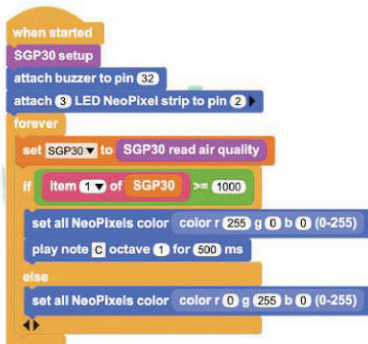
Friendly Hardware

Non threatening, inexpensive, friendly, easily stored and inventoried, elegant, and incredibly simple to use by teachers beginning or advanced in their STEAM skills.
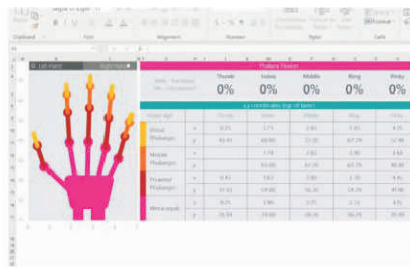
Software

Out of the box databot connects to our free App Vizeey for easy experiment setup, data collection, visualization, analysis and export.

MicroBlocks
The fastest drag and drop coding environment on the planet

Microsoft Data Streamer
Enabling live serial data streaming directly into Excel

Google
Tools for IoT data aggregation, dashboards, analytics

Python
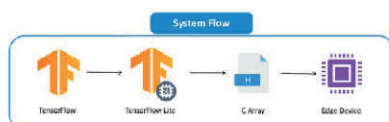Platforms for physical computing, data science, cybersecurity, ML & more

Data Science Tools
Rich experiences in applied mathematics and data science

Arduino
Over 30 million makers inventing, coding, and creating

TensorFlow
Edge computing & ML

Drone

Databot weight in at 34 grams and has been successfully integrated with the DJI Tello Edu and Robomaster TT for classroom applications. Larger drones such as the Mavic can easily carry the payload for data driven explorations.
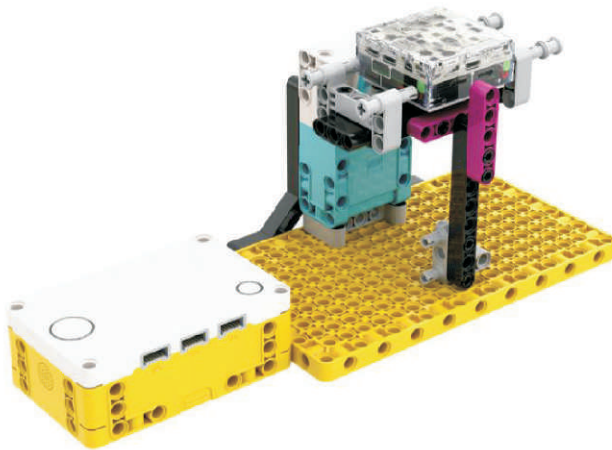

Mission

• Volcanic Vistas

• Get the Height Right

• Capture the Flag

• Stairmaster (Humidity)

• Spin it in a Minute

Robotic

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You are getting warmer

- Carbon Dioxide
- Greenhouse Gases
- Carbon Sequestration
- Climate Change
- Applied Math
- Coding
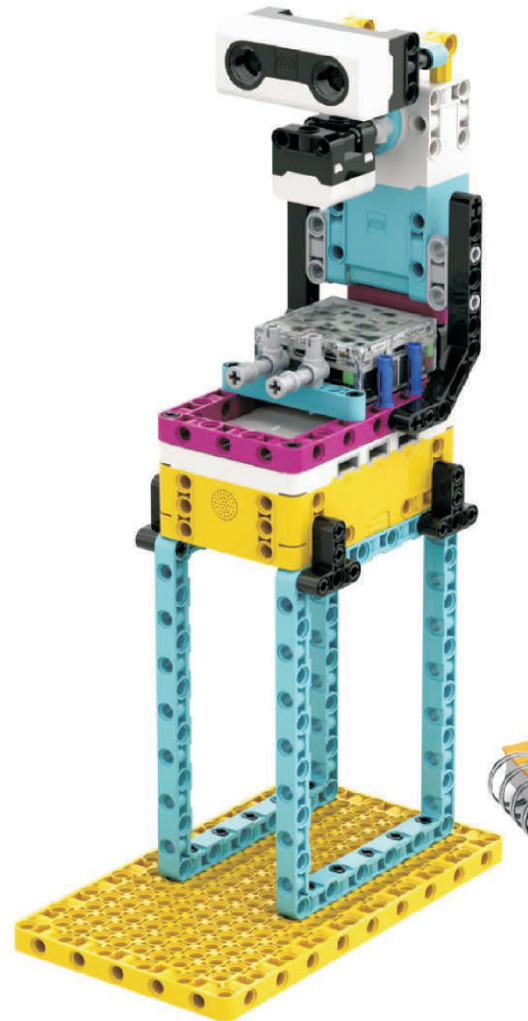
CO2 Alarm

- Systems Integration
- Optocoupler
- Air Quality
- Coding
- Communications

Product Configuration

Databot 2.0 product configurations

Single - The classic

Twin pack - 2 bots

Class pack - 10 bots

Alternative packaging option

The explorer pouch a complete kit in a tiny footprint. Perfect for 1:1, virtual schools, and grab & go science explorations.

What can you do with databot?

The versatility of databot is incredible we see it being used across departments and ranging in age from elementary science to advanced high school computer science.

- Jr. High Science: Agrivoltaics

- STEM teacher traing (Ninja physics & thermal transfer)

- Elementary math & science - unbalance forces (w/Vizeey)

- HS physics: Zeroth law of thermodynamics (w/Vizeey)

- MS science: Microgravity & Biotechnology (w/MicroBlocks)

- HS CTE: High altitude balloon science

- HS Engineering

- MS math: Newton's low of cooling (w/Vizeey & Desmos)

- MS math: Quadratics and Trajectories (w/Vizeey & Desmos)

- MS math: Linear regressions & bungee barbies (w/Vizeey & Desmos)

- HS Chemistry: Air quality study (Vizeey & Google sheets)

- MS Science: illuminance

- MS Science: Altitude & Air pressure

- MS Science: Sound intensity

- MS Science: Linear acceleration

- MS Science: UV index

- MS Technology: Drone challenge

- MS Science: Indoor air quality

What can you do with databot?

Data Science

Data is the underpinning element that weaves through all of the things you can learn with databot™. Bring K12 data science to life in the classroom with live sensor data as students collect, visualize, and analyze real scenarios in real time.

Coding - AI Machine Learning

Coding, Artificial Intelligence and Machine Learning are embedding and spreading rapidly into every imaginable technology we use. databot™ provides an extraordinary technology platform for exploring these topics through multiple coding environments, physical computing attributes, real time sensor integrations, and more.

Sciences

16 sensors provide an incredible array of opportunities to explore Physics, Chemistry, Earth Science, and Biology. Dive into interdisciplinary Environmental Science and learn through live data about climate change and the personal impact we have every minute on this remarkable planet we call home.

Drone

Drones in the classroom are engaging students globally in science and technology topics that develop extraordinary skills for 21st century careers. databot™ takes drones to the next level as students fly data driven missions to identify hazards, solve challenges, and get a taste of how real world sensors solve real world problems.

Applied Math

Real data, real problems, real calculations make math relevant and engaging. Check out databot™ integrations with Desmos, Excel, and other programs that shine a very bright light on the real excitement that lies within applied mathematics. This approach to math transforms attitudes and builds confidence that suddenly make the math classroom "the" place to be.

STEAM

The big enchilada! Science, Technology, Engineering, Arts, and Mathematics all coming together in a symphony of design thinking, physical computing, problem solving, making, creating, innovating, and inventing. Hack your own sensors for databot™, give it a personality, put on a light and sound show that is driven by environmental sensor data. No limits – just imagine!

For further details please call us on **+ 91 9755591500**

Subject to change

databot™