

ICreateRobot

Complete STEAM Learning
Solutions for Children Aged 3-16



I Create Robot

Since 2007

ICBlocks



ages: 3+

ICQBot



ages: 5+

ICBricks



ages: 6+

micro:bit



ages: 9+

About ICreateRobot

ICreateRobot has 18 years of STEAM education research and practical experience, with strong independent product R&D capabilities. We have partnered with over 1,000 institutions globally and operate our own factory, offering tailored solutions to meet diverse needs. Our company holds more than 300 patents and is certified with ISO 9001, CE, CCC, FCC, and EN71. With an R&D team of 80+ experts and a service team of 30+, our fully digitized production and operations ensure efficient quality control throughout the process.

Let's collaborate to inspire the next generation of innovators!

Mission

Empowering every child to discover the joy of exploring technology.

Enterprise Spirit

Excellence in execution, superior quality in products.





Global Market

ICreateRobot, in addition to operating its own campuses, also provides products and operational models to over **500** institutions worldwide.

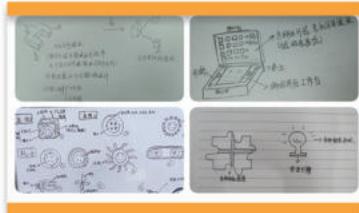


In China





R&D Process



..... Requirement Proposal

..... Project Initiation

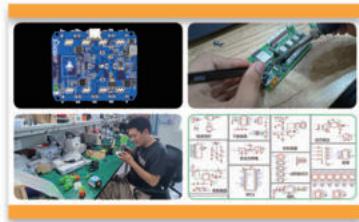
..... Research and Analysis



..... Structure Design

..... Appearance Review

..... Appearance Design



..... Hardware Circuit Design

..... Embedded Development

..... Software UI Design



..... Production Process

..... Manufacturing Process

..... Software Development

Production Process



Injection Molding Tool



Incoming Quality Control



First Article Inspection



Solder Paste Printing



Component Placement



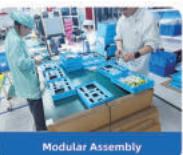
Reflow Soldering



Automated Optical Inspection



Product Assembly



Module Testing + Quality Inspection



Modular Assembly





Product Certificate

CE Certificate



QMS: ISO 9001



ICBlocks

CPC/FCCID
UN38.3/MSDS



ICQbot

CPC/FCCID
UN38.3/MSDS



ICBricks

CPC/FCCID
UN38.3/MSDS



micro:bit

CPC/FCCID
UN38.3/MSDS



ICBlocks Screen-Free Coding Robot Kit

Recommended for ages 3+



ICBlocks Screen-Free Coding Robot Kit innovates with magnetic, hands-on coding instructions, perfect for toddlers aged 3-6 to learn coding without the need for a computer, avoiding screen time and eye strain. This kit includes over 30 intelligent blocks that can be creatively built with large, easy-to-handle blocks, allowing young children to explore artificial intelligence and develop logical thinking skills. ICBlocks Screen-Free Coding Robot Kit is an ideal tool for nurturing early coding abilities and critical thinking.



Screen-Free & Eye-Care



Hands-On Puzzle Coding



Logical Thinking Skills



Sensor-Based Interaction



Quick Start for Beginners



Creative Robot Building



ICBlocks – Empowering Young Minds
Through Hands-On Technology!

STEAM



YouTube



Easy to Begin

● Quick Start in 3 Easy Steps



Building



Coding



Playing

● Magnetic Modular Coding



Smart & Friendly Design



● Magnetic & Kid-Friendly Connections



● Compatible with LEGO® DUPLO®



Fun Ways to Play

● Sensor Direct Control Robotics



● Light-Chasing Robot

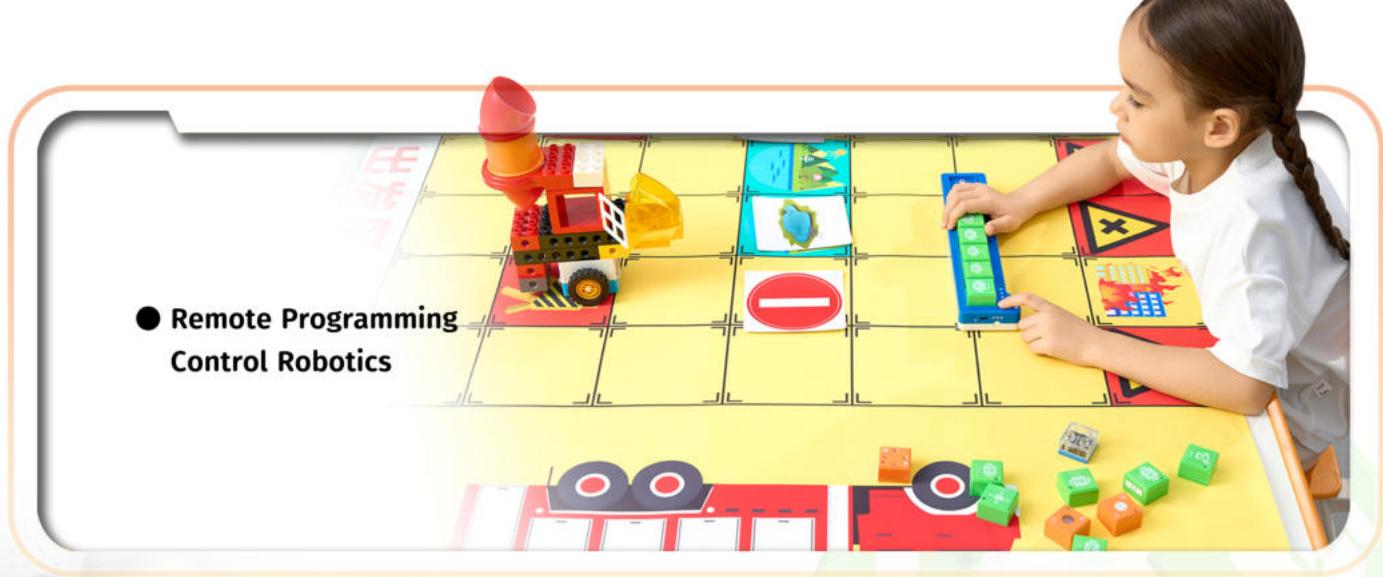


● Line-Following Robot

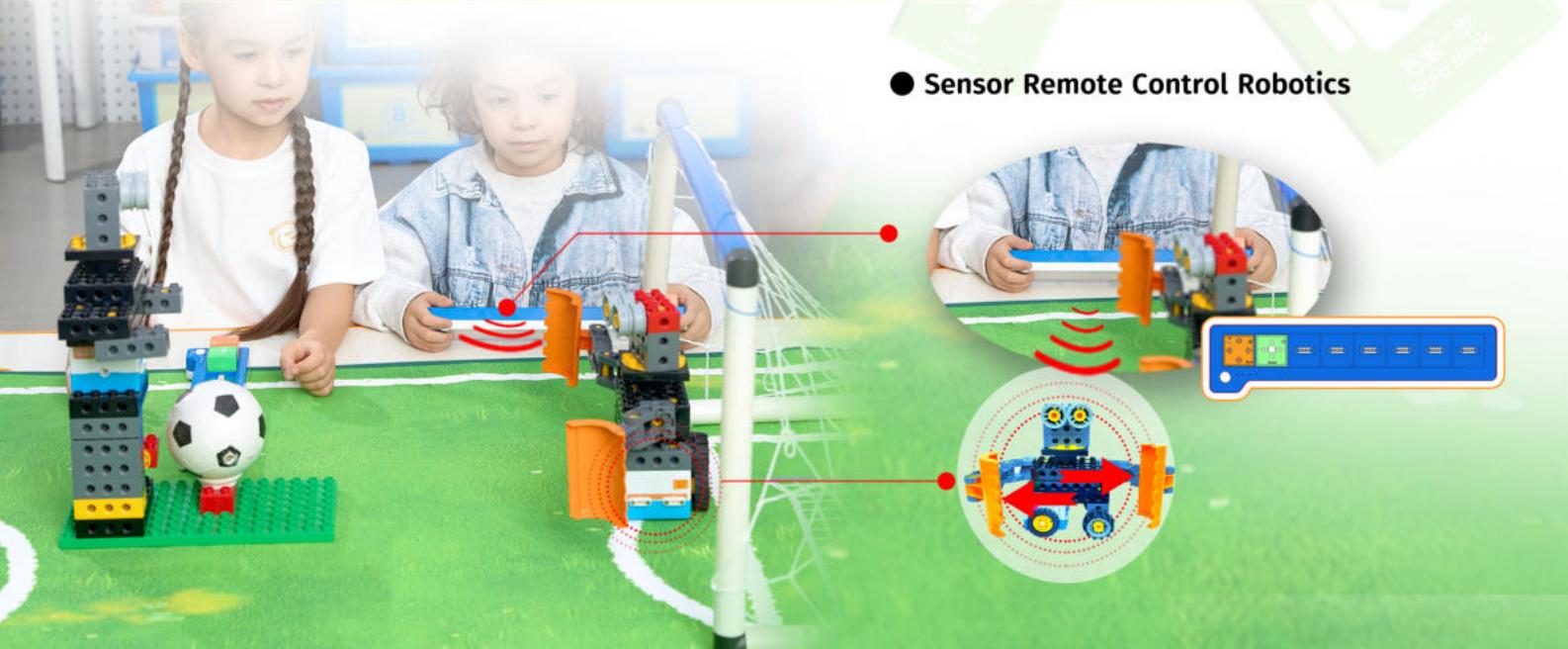


● Voice-Controlled Robot

● Remote Programming Control Robotics



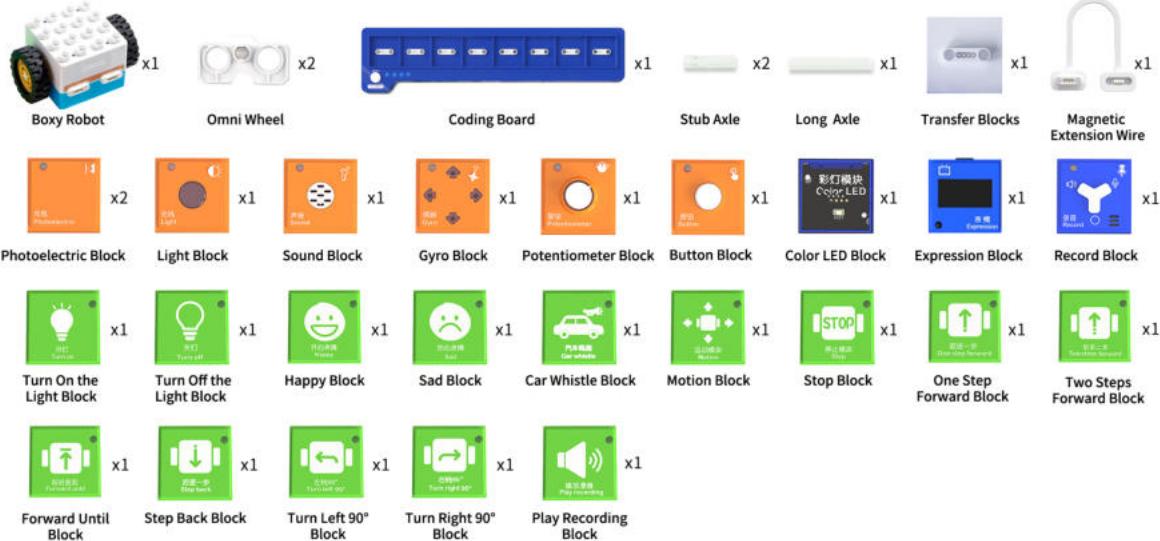
● Sensor Remote Control Robotics





Learning Through Coding

● Rich Sensors & Coding Commands



■ 40+ Creative Lesson Projects

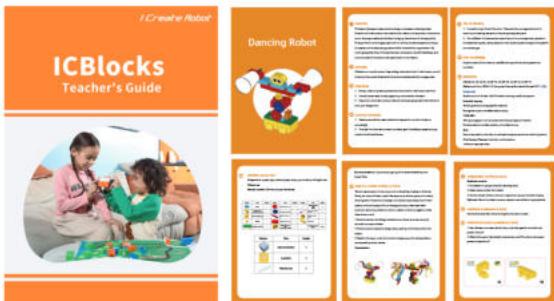




Learning Through Coding

- Comprehensive Teacher & Student Guides with Props

■ Teacher's Guide



■ Student's Manual



■ Classroom Tools



- Essential Coding Set for Kids' Growth

Class



Competition



Family



ICBlocks Screen-Free Coding Robot Kit

	ICBlocks (Lite)	ICBlocks (Complete)
Packaging Diagram	A yellow box labeled "ICBlocks Lite Screen-Free Coding Robot Kit" featuring a cartoon robot and a road scene. Below it is a blue tray containing a white Boxy Robot and a blue Coding Board.	A blue tray containing a white Boxy Robot, two Omni Wheels, a blue Coding Board, two Stub Axles, and two Long Axles.
Model	ICA0123	ICI0122
Electronic Parts List	A list of electronic parts for the Lite kit, including a Boxy Robot, a Coding Board, a Gyro Block, a Potentiometer Block, a Motion Block, a Two Steps Forward Block, a Turn Left 90° Block, a Turn Right 90° Block, and a One Step Forward Block.	A detailed list of electronic parts for the Complete kit, including Transfer Blocks, Magnetic Extension Wire, Photoelectric Block, Light Block, Sound Block, Gyro Block, Potentiometer Block, Button Block, Color LED Block, Expression Block, Record Block, Turn On the Light Block, One Step Forward Block, Turn Off the Light Block, Happy Block, Sad Block, Car Whistle Block, Motion Block, Stop Block, Two Steps Forward Block, Forward Until Block, Step Back Block, Turn Left 90° Block, Turn Right 90° Block, Play Recording Block, and various sensor and control blocks.
Qty of Building Parts	71	213
Courses Included	10	40
Instructional Materials	Student's Manual	Teacher's Guide Student's Manual
Software	Not Necessary	Not Necessary
Compatible OS	Not Necessary	Not Necessary
Supported Languages	Chinese/English	Chinese/English
Props	A small image showing a grid of colorful icons representing various objects and scenes used as props for the robot to interact with.	A large image showing a collection of colorful icons representing various objects and scenes used as props for the robot to interact with, including a variety of animals, vehicles, and landscapes.

ICQbot Voice Coding Robot Kit

Recommended for ages 5+



Voice-Controlled
Interaction



AI-Inspired
Coding



ScratchJr-Based
Learning



Virtual-Physical
Integration



Creative Robot
Building



Playful
Programming Skills

ICQbot is an innovative voice-interactive coding robot designed to introduce children aged 5+ to the world of programming through hands-on play and creative exploration. With built-in voice recognition, children can control and code the robot using simple commands in English or Chinese—encouraging natural interaction and early communication skills.

Powered by a ScratchJr-based coding app, ICQbot allows young learners to create their own programs through an intuitive, drag-and-drop interface on iPads or Android tablets. The platform seamlessly integrates physical building with digital storytelling, enabling kids to build LEGO®-compatible robot models and bring them to life through interactive virtual scenes.

Supported by comprehensive learning materials, ICQbot provides everything children need for self-guided exploration, family engagement, and classroom instruction—making early coding education accessible, playful, and effective.

*Where Voice Meets Code, and Every Child Talks to
Their Robot Like an AI Friend.*

STEAM



YouTube





Speak, Code, and Control



- Voice Command Control
- Voice-Based Coding
- Early Language & Programming Skills



Tablet-Based Learning



- ScratchJr-Compatible Software
- Interactive Virtual & Physical Builds



Build, Play & Interact Freely



Xiao Q Robot



Voice Recognition Sensor



Tilt Sensor



Motor



Distance Sensor

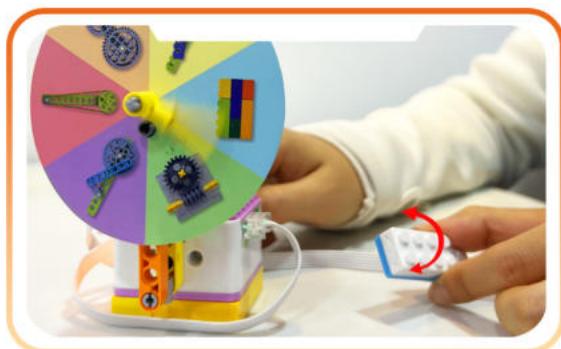
- LEGO-Compatible Construction
- From Building to Creating



Kit configurations may vary by models; Please refer to the actual package for details.



Explore the Future: IoT & VR Basics



Gesture-Based Remote Control

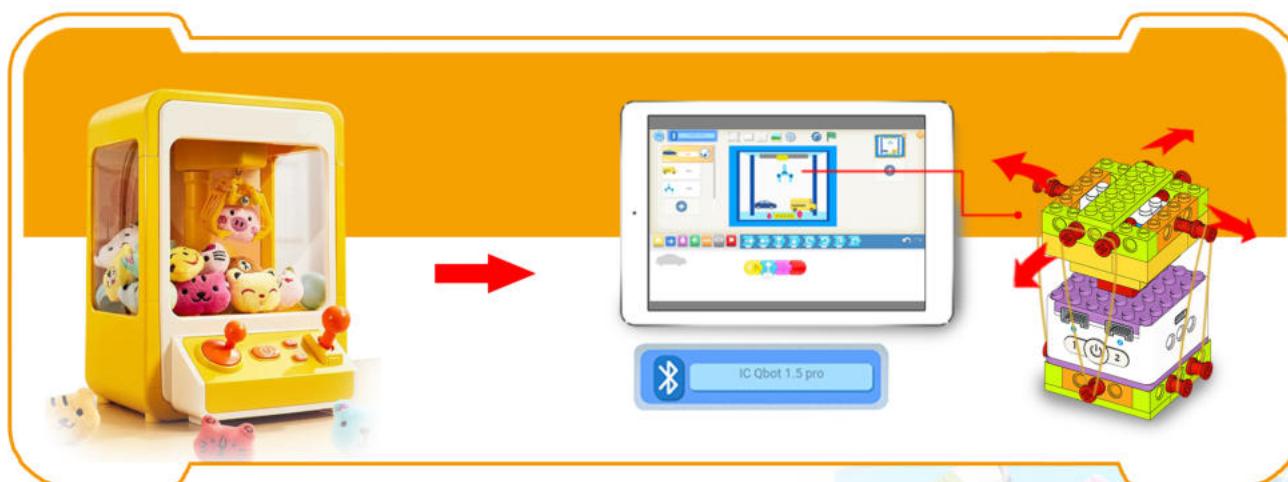


Distance Sensor Control

● Virtual + Physical Coding Integration



● Bluetooth-Connected Control System

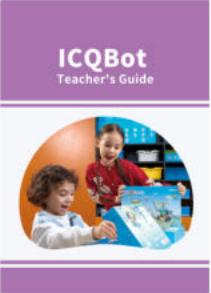




Comprehensive Educational Resources

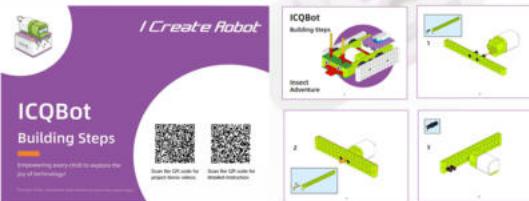
● Complete Teaching Kit

■ Teacher's Guide



ICQBot Teacher's Guide

■ Student's Manual



I Create Robot
ICQBot Building Steps
Empowering every child to explore the joy of robotics!

■ Versatile Learning Scenarios



Wheel of Fortune

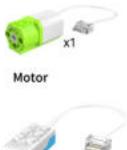


The Twelve Constellations

● 20+ Creative Project Cases



ICQbot Voice Coding Robot Kit

	ICQbot (Lite)	ICQbot (Complete)
Packaging Diagram		
Model	ICA1307	ICI1308
Electronic Parts List	    	    
Qty of Building Parts	277	394
Courses Included	10	20
Instructional Materials	Student's Manual	Teacher's Guide Student's Manual
Software		
Compatible OS	Tablet	Tablet
Supported Languages	Chinese/English	Chinese/English
Programming Language	ScratchJr	ScratchJr
Props	 	 

ICBricks Coding Robot Kit

Recommended for ages 6+



AI Robotics
Learning



Visual Block
Coding



Tiered Coding
Modes



Smart Sensor
Play



Creative
Engineering Build



STEAM Skills
Training

ICBricks is a hands-on robotics and coding kit designed for children aged 6 and up. It combines LEGO-compatible building with smart hardware—motors, sensors, and LEDs—to help kids explore coding, automation, and real-world technology through playing.

Using a Scratch-based visual programming platform, students can start with simple block coding and progress to advanced logic. The software supports both tablets (iOS/Android) and desktop browsers, making learning flexible and accessible.

With app-based robot control and sensor-driven interaction, ICBricks makes programming intuitive. Kids see how their code directly influences robot behavior, develops logical thinking and problem-solving skills.

ICBricks also introduces AI and machine learning through camera-based functions like image and color recognition. Students can train their robots to respond intelligently to their environment—bringing coding to life with real-world relevance.

The kit includes 30+ project guides, along with complete teaching resources, making it ideal for classrooms, home learning, and robotics competitions.

Where Kids Build Robots
that Think, Sense, and Learn.

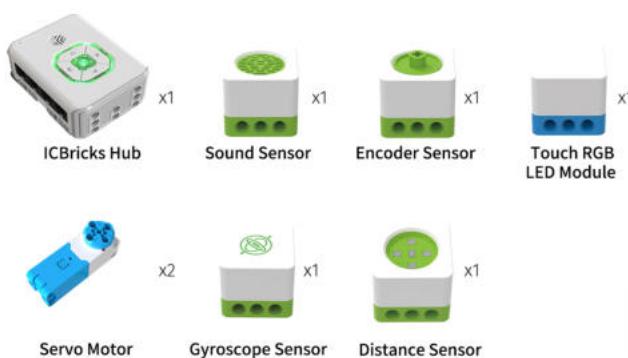
STEAM



YouTube



Build, Code, and Innovate.



- Smart Hardware Integration
- LEGO-Compatible Engineering



Dive into AI & Machine Learning



- Vision-Based AI Functions
- Smart Projects with Real Impact



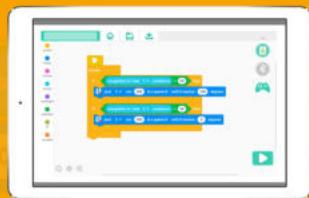
Learn Coding Across Devices

ICBricks

- 2 Types of Coding Layout Available

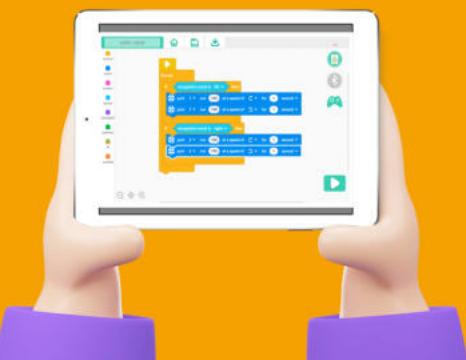


Basic (Landscape)



Advanced (Portrait)

- Multi-Platform Support





Smarter Control, Smarter Robots

● Sensor-Driven Interaction



Direct Control



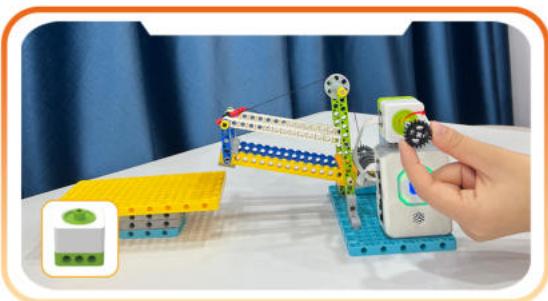
Distance Sensor Control



Gyroscope Sensor Control



Sound Sensor Control



Encoder Sensor Control



Touch RGB LED

● App-Controlled Robotics

The image shows two children, a boy and a girl, sitting at a table and interacting with tablets. The boy is using a tablet to control a robot via Bluetooth remote control, while the girl is using a tablet to control the same robot via software programming control. Blue circular arrows indicate the signal flow between the tablets and the robot.

Bluetooth Remote Control Software Programming Control



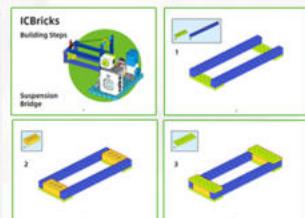
Guided Learning & Creative Resources

● Comprehensive Teaching Materials

■ Teacher's Guide



■ Student's Manual



■ Flexible Learning Environments

Gobang

● 30+ Structured Project Cases



Bumper Car



Train



Table Saw



Suspension Bridge



Sculling Boat



Archimedes Constraint



Marble Launcher



Airplane



Piling Robot



Crossing the Ocean



Tricycle



Helicopter



Earthquake Simulator



Wind Resistance Device



Gantry Crane



Little Turtle



Oil Pump Machine



Mining Machine



Tiny Driver



Penguin Parade



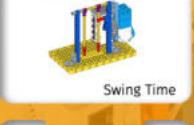
Fitness Bot



Golf Bot



Piggy Bank



Swing Time



Boxing Buddy



Smart Mechanical Arm



Gobang



Delivery Robot



AI-Powered Robotic Hand



AI Posture Recognition Robot

ICBricks Coding Robot Kit

	ICBricks (Lite)	ICBricks (Complete)
Packaging Diagram		
Model	ICA1026	ICI1027
Electronic Parts List	 x1  x1  x1  x1  x2  x1  x1	 x1  x1  x1  x1  x2  x1 
Qty of Building Parts	246	432
Courses Included	10	30
Instructional Materials	Student's Manual	Teacher's Guide Student's Manual
Software		
Compatible OS	Tablet(iOS/Andriod) Smartphone(iOS/Andriod) Computer(Mac/Windows)	Tablet(iOS/Andriod) Smartphone(iOS/Andriod) Computer(Mac/Windows)
Supported Languages	Chinese/English	Chinese/English
Programming Language	Scratch/Blockly	Scratch/Blockly
Props	  Gobang	  Gobang

micro:bit Robotics Inventor Kit

Recommended for ages 9+



Computational
Thinking Development



Hands-On Problem
Solving



Creative Robotics
Design



Logical Coding
Exploration



Innovative Sensor
Interactions



STEAM-Focused
Learning

micro:bit is an innovative robotics and coding kit designed for children aged 9 and up. It combines hands-on building with intuitive coding to help students develop key skills in computational thinking, problem-solving, and creativity. With its user-friendly interface, micro:bit makes learning robotics and artificial intelligence accessible and fun.

The kit includes a powerful Smart Hub, multiple sensors, and LEGO®-compatible parts, enabling students to create interactive robots that respond to their environment. Scratch-based programming offers a simple start, with the ability to advance to JavaScript or Python as students progress, ensuring learning is both engaging and scalable.

micro:bit sensor-based interaction and STEAM-focused learning provide a solid foundation for future innovators, while its versatile design supports both home learning and classroom use. Whether building simple robots or complex systems, micro:bit fosters creativity, critical thinking, and hands-on learning.

micro:bit Robotics Inventor Kit

Inspiring young minds to build, code, and create the future.



YouTube

STEAM



Build, Code, and Innovate.



● Smart Hub with Multiple Interfaces

18 Input/Output Ports with
Expandability

Diverse Input Modules
Multiple Output Modules

Grove Connectors

Fully Compatible with LEGO

● Rich Sensor Kit



x2



x1



x1



x2



x2



x1



x1



x2



x1



x1



x1



x1



x1



x1



x1



x1



x1



x1



x2

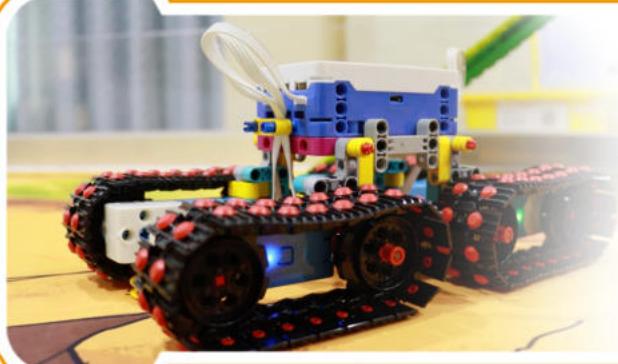
Kit configurations may vary by models; Please refer to the actual package for details.

● LEGO® and Metal Structure Compatibility





Enhanced Performance and Power



- Long-Lasting Power & Real-Time Alerts
- Secure & Stable Sensor Connections



Smarter Control, Smarter Robots

- Direct Control with Smart Hub



- Communication Between Two Smart Hubs 



Comprehensive Learning & Global Use



- Sensor-Driven Interaction



- App-Controlled Robotics



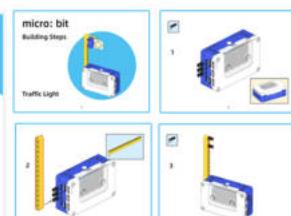
Guided Learning & Creative Resources

● Guided Learning Resources

■ Teacher's Guide



■ Student's Manual



■ Versatile Learning Scenarios



Map



Morse Code Card

● 30+ Structured Project Cases



Traffic Light



Catapult



Precise Shot



Spinning



Password Lock



Joyful Transport



Pet Elf



Robotic Arm



Rock, Paper, Scissors



Rainbow Monster



Smart Clothes Dryer



Creative Desk Lamp



The Little Painter



Number Base Conversion



Magnetic Field Mystery



Home Guardian



Smart Bus Stop



Color Expert



Boring Machine



Battle Robot



Parking System



Floating in the Dead Sea



Pendulum Experiment



Smart Firefighting



Morse Code



Line Counting Master



Line Following Master



Land Reclamation



Smart Square Center Finder



Environmental Detector

micro:bit Robotics Inventor Kit

	micro:bit (Lite)	micro:bit (Complete)																													
Packaging Diagram																															
Model	ICA2018	ICI2019																													
Electronic Parts List	<table border="0"> <tr> <td> x1</td> <td> x1</td> <td> x1</td> </tr> <tr> <td> x2</td> <td> x1</td> <td> x1</td> </tr> <tr> <td> x2</td> <td> x1</td> <td> x1</td> </tr> </table>	 x1	 x1	 x1	 x2	 x1	 x1	 x2	 x1	 x1	<table border="0"> <tr> <td> x1</td> <td> x1</td> <td> x1</td> <td> x1</td> <td> x2</td> </tr> <tr> <td> x2</td> <td> x1</td> <td> x1</td> <td> x2</td> <td> x2</td> </tr> <tr> <td> x2</td> <td> x1</td> <td> x1</td> <td> x1</td> <td> x1</td> </tr> <tr> <td> x1</td> <td> x1</td> <td> x1</td> <td> x1</td> <td> x1</td> </tr> </table>	 x1	 x1	 x1	 x1	 x2	 x2	 x1	 x1	 x2	 x2	 x2	 x1	 x1	 x1	 x1	 x1	 x1	 x1	 x1	 x1
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 x1	 x1	 x1	 x1	 x1																											
Qty of Building Parts	212	505																													
Courses Included	10	30																													
Instructional Materials	Student's Manual	Teacher's Guide Student's Manual																													
Software	 MakeCode for microbit	 MakeCode for microbit																													
Compatible OS	Mac/Windows	Mac/Windows																													
Supported Languages	Chinese/English	Chinese/English																													
Programming Language	MakeCode	MakeCode																													
Props																															

ICRobot

Recommended for ages 7+



ICRobot is a creative learning robot designed for children aged 7 and above. With just Scratch 3.0 skills, kids can start programming right away—no new coding language required. Powered by ICreateCode, a custom Scratch editor based on TurboWarp, the platform adds AI vision blocks, one-click Python conversion, and full hardware control. From expressive 8 × 24 LED faces to real-time image recognition, kids can turn ideas into real-world results and enjoy hands-on learning.



Scratch 3.0 Ready



Real-Time
Code-to-Robot
Feedback



Everyday AI Vision



Grove & Small-Brick
Expansion



AI Literacy
Curriculum Alignment



Innovation
Project Toolkit



ICRobot – Your Gateway to AI,
Coding & Creative Robotics.



YouTube

STEAM



Build, Code, and Innovate — Unlimited Expansion

ICRobot includes an 8 × 24 LED expression display, RGB tail lights, dual-motor tracks, a 5-channel color and grayscale sensor, a sound sensor, and extra ports for add-ons like a claw or launcher. It has 4 Grove ports that support over 300 Arduino-compatible sensors. It also supports small building bricks, allowing students to build everything from gears and catapults to advanced machines.



● Compatible with Grove modules and LEGO building



● Design and build a smart pet buddy — play with cats, feed them treats!



One Workspace, Two Paths — ICreateCode

Use familiar Scratch blocks to control the robot, then switch to Python code with a single click—ideal for learning both block and text coding. The same Windows editor works with the full ICreateRobot family, including ICBricks and micro:bit kits. This gives schools a unified platform for multiple coding courses.

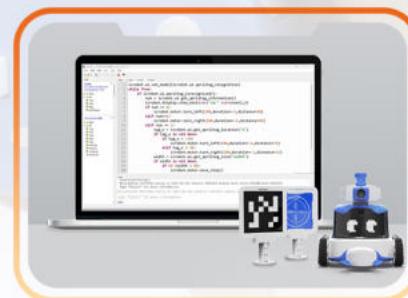
Additionally, it also supports multiple platforms such as Arduino, MicroPython, and more.



ICreateCode



Arduino

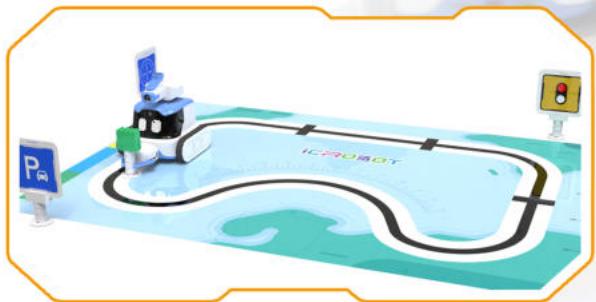


MicroPython

See, Sense & React – Real-Time Personalisation

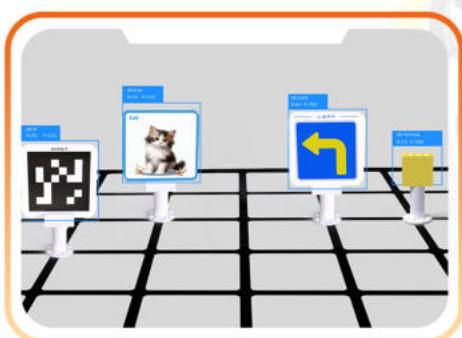
Kids can instantly change LED expressions, flash tail lights, or trigger actions like firing mini balls. Program behaviors such as line-following, obstacle-avoiding, or clap detection, using sensors like color/grayscale, buttons, and sound, ICRobot becomes a personalized creation that responds instantly to code.

- Use the robot to complete exciting tasks — pick things up, launch objects, and explore all kinds of cool missions



Everyday AI Vision — From Classroom to Real Life

Use simple coding blocks to enable image, color, pose, gesture, face, and QR code recognition. The robot can use either its built-in camera or a PC webcam. Kids can recreate real-life AI applications like self-driving, face unlocking, object tracking, or even train their own models like rock-paper-scissors.



- Visual Recognition

Traffic signs, lights, sound triggers, targeting, line following, QR codes



- Color Recognition



- Color Tracking



- Face Recognition

AI

Guided Learning & Teaching Resources

Includes over 30 teaching materials: project guides, presentation slides, student workbooks, and competition mats. All content aligns with national and international AI curriculum standards, making it perfect for classes, clubs, or STEM competitions.



- PC Collaboration: Image Streaming & Recognition Mode



- Real-Time Image Streaming via App



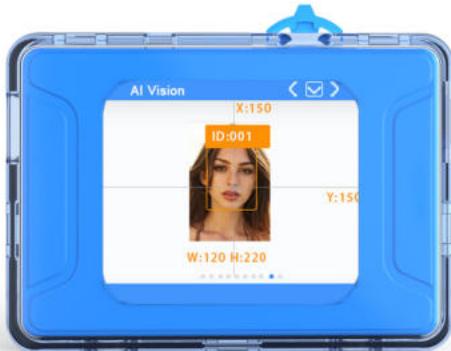
Where It Fits

- Schools & Kindergartens — For Scratch-based AI lessons and clubs
- STEM Centers & Camps — Perfect for project-based learning and competitions
- Home Makers — Great for weekend family coding and creative play



ICreateRobot AI Vision Sensor

Recommended for ages 9+



Color Intelligence



Object & Line
Detection



Face & Label
Recognition



QR Code Scan



Image Transmission



AI Empowerment



See the Future, Code the Vision!

The ICreateRobot AI Vision Sensor is a versatile intelligent vision system designed for the STEAM education field. Powered by the Kendryte K210 neural network processor, it features a 2MP HD camera and a 1.69-inch TFT-ISP display, supporting a wide range of visual recognition functions including color detection, object detection, color tracking, line detection, face recognition, QR code scanning, and more.

With built-in Wi-Fi/BLE for wireless image transmission, SD card support, a multi-functional dial button, and a Grove I²C interface, it easily integrates with various main controllers to expand AI capabilities in educational projects.

Compatible with graphical programming, Python, Arduino, and C++, it adapts to learners from primary to high school, making it ideal for creative coding, AI learning, and project-based education.

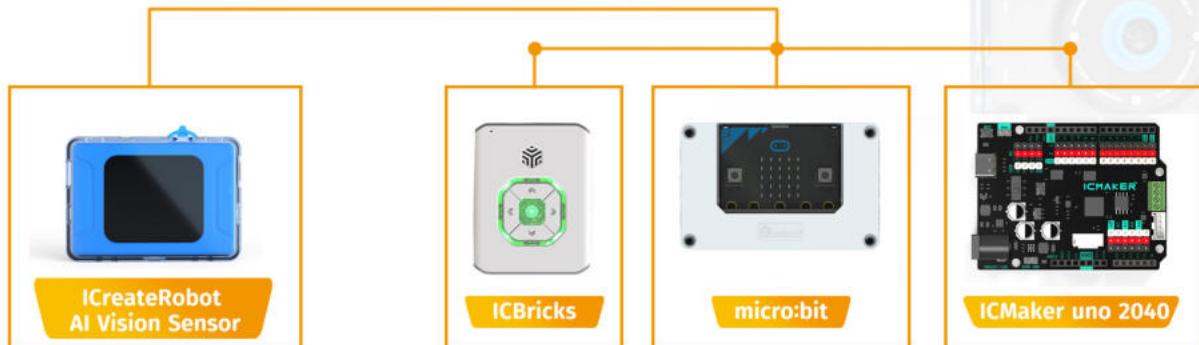
Driven by six core visual recognition features, the ICreate Vision Module empowers future-ready learning—making artificial intelligence both accessible and engaging for the next generation of innovators.

STEAM





Multi-Sensor Compatible, Limitlessly Expandable



Smarter Vision, Deeper Learning

● Color Detection



● Color Block Tracking



● Face Recognition



● QR Code Recognition



● Label Recognition



● Deep Learning



● Line Detection



● Object Detection



● Image Transmission Recognition





Website

www.icreaterobot.com

E-mail

icrobot.service@gmail.com



YouTube



Website