

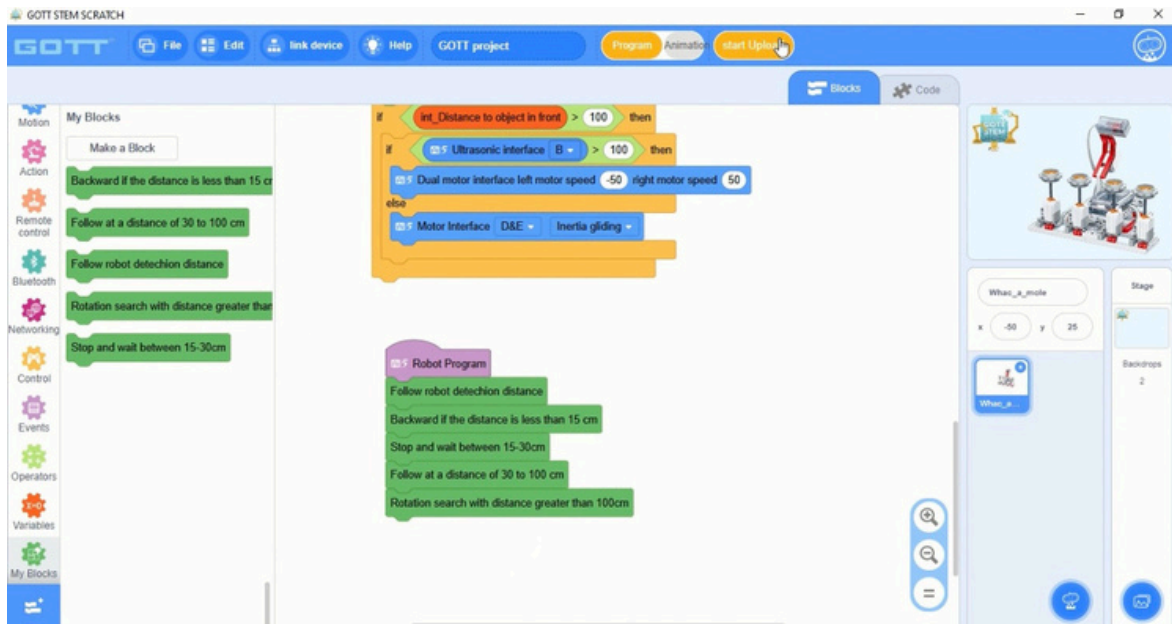


# AI PROGRAMMING ROBOT BUILDING KIT

## MODEL NUMBER : GT-P09

### ONLINE SOFTWARE AND PROGRAMMING AI TOOLS

#### GOTT® STEAM SCRATCH APP



#### DESCRIPTION

The GOTT STEAM Scratch App is a user-friendly programming platform designed to introduce children (ages 8 and above) to coding, artificial intelligence (AI), and STEAM (Science, Technology, Engineering, Arts, and Mathematics) concepts. It merges interactive robot building with graphical programming and AI-guided challenges, creating an engaging learning experience. This platform supports multi-device remote control and real-time coding, making it ideal for classrooms, training centers, and home-based learners.

#### KEY FEATURES

1. AI-Guided Programming: Step-by-step challenges enhance understanding of programming logic and AI concepts.
2. Hands-On Coding Experience: Encourages learning through interactive projects involving sensors and robotics.
3. Visual Coding Interface: Drag-and-drop block programming makes it easy for beginners to start coding.
4. Multi-Device Support: Enables remote control and project collaboration across various devices
5. Gamified Learning Modules: Engaging puzzles and creative tasks boost learner motivation and retention.

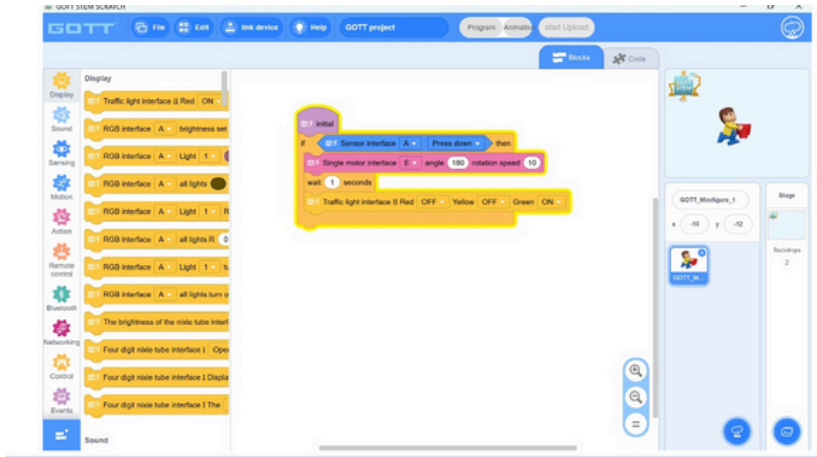
#### KEY LEARNING OUTCOME

1. Develop Critical Thinking
2. Foster Creative Problem Solving
3. Enhance Team Collaboration
4. Promote Digital Citizenship
5. Build Confidence in STEAM

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## FEATURES

<b>STEM Learning</b>	Encourages skills in Technology, Engineering, and AI (STEM).
<b>Remote Control and Automation</b>	Robots can be manually control in our mini program
<b>Affordable Alternative</b>	Generally more cost-effective compared to other robotics kits like LEGO Mindstorms or VEX Robotics, making them accessible to a wider audience.
<b>Main Materials</b>	ABS Plastic
<b>Battery type</b>	Rechargeable lithium battery
<b>Servo Motor</b>	Position Control – Rotates within a fixed range (e.g., 0° to 180° for standard servos).
<b>Programming language</b>	SCRATCH3.0
<b>Main controller Function</b>	It has 8 RJ12 ports, each of which is assigned 1~4 IO ports. A mini USB charging port, you only need to connect the computer via a micro USB data cable to download the program, and perform human-computer interactive programming with scratch 3.0
<b>Ultrasonic Sensors</b>	Non-contact Measurement – Detect objects without physical contact.
<b>Number of building blocks</b>	491 pieces
<b>Working temperature</b>	4 ~ 40 °C
<b>Packing box size</b>	42cm X 30cm X 20cm
<b>9 in 1 kinds of building block models + full-color printing project instruction manual</b>	<ul style="list-style-type: none"> <li>The building block parts of this kit are dominated by blue and white, the whole is full of science and technology, which can be assembled into N models.</li> <li>The manual includes assembly steps of 16 kinds of models and basic instruction content for programming.</li> </ul>
<b>Compatible with building block, various gameplays</b>	<ul style="list-style-type: none"> <li>9 in 1 kinds of models , such as following robot, electronic gaming, electronic mecahnical arm, electronic plotter, electronic guitar</li> <li>Users can also expand through more bricks and build more interesting shapes.</li> </ul>
<b>Lifetime</b>	120 minutes
<b>Education</b>	
<b>Programming Interface</b>	PC App (GOTT STEAM SCRATCH APP) + Visual Coding Guide
<b>Material</b>	Non-Toxic ABS Plastic

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## BUILDING BLOCKS

<b>Structural Beams and Connectors</b>	<ul style="list-style-type: none"> <li>• Various white beams (different sizes): x2, x6, x8, x10</li> <li>• Various red beams and connectors:             <ul style="list-style-type: none"> <li>◦ L-shaped connectors: x2, x4, x6</li> <li>◦ Small red connectors: x58, x2, x4</li> </ul> </li> <li>• Specially shaped frames:             <ul style="list-style-type: none"> <li>◦ Red rectangular frame: x1</li> <li>◦ White structural frames: x2, x6</li> </ul> </li> </ul>
<b>Angular and Decorative Blocks</b>	<ul style="list-style-type: none"> <li>• Orange aerodynamic blocks: x1, x2, x4</li> <li>• Red structural connectors: x58, x2, x4</li> </ul>
<b>Axles and Rods</b>	<ul style="list-style-type: none"> <li>• Black rods of various sizes: x4, x6, x8, x12, x14</li> </ul>
<b>Gears and Mechanisms</b>	<ul style="list-style-type: none"> <li>• Gray gears of different sizes: x9, x12, x27, x49</li> </ul>
<b>Wheels and Tires</b>	<ul style="list-style-type: none"> <li>• Large rubber tire: x1</li> <li>• Wheel rim: x1</li> </ul>
<b>Sensors and Electronics</b>	<ul style="list-style-type: none"> <li>• Encoder: x1</li> <li>• Infrared line patrol sensors: x2</li> <li>• Touch sensors: x2</li> <li>• Buzzer: x1</li> <li>• Ultrasonic sensor: x1</li> <li>• Large servo motor: x1</li> </ul>
<b>Cables and Accessories</b>	<ul style="list-style-type: none"> <li>• 25cm cables: x5</li> <li>• 35cm cable: x1</li> <li>• Power adapter: x1</li> </ul>
<b>Controller</b>	<ul style="list-style-type: none"> <li>• SS Master Controller: x1</li> </ul>

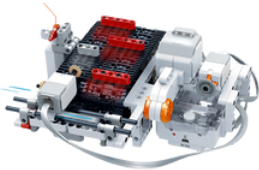
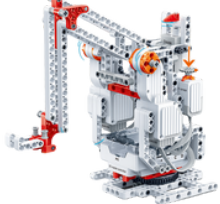
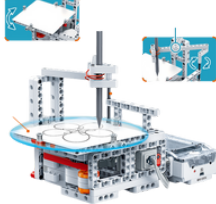
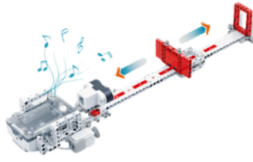





## SENSORS

<b>Touch Sensor*2</b>	<ul style="list-style-type: none"> <li>• Micro slide switch detects touch action</li> <li>• Orange cross shaft extends touch range</li> </ul>
<b>Buzzer*1</b>	<ul style="list-style-type: none"> <li>• Electronic sound generator ("beep beep")</li> <li>• Produces tones via frequency modulation</li> </ul>
<b>Encoder*1</b>	<ul style="list-style-type: none"> <li>• Detects rotation direction/speed/amplitude</li> <li>• Supports unlimited turns from any start position</li> <li>• Clockwise = positive count (resettable)</li> </ul>
<b>Infrared Line Patrol Sensor*2</b>	<ul style="list-style-type: none"> <li>• Infrared transmitter/receiver pair</li> <li>• Returns analog/digital signals via reflection</li> </ul>
<b>S5 Master Controller*1</b>	<ul style="list-style-type: none"> <li>• ATmega328P MCU with 32KB flash/2KB RAM</li> <li>• 23 I/O lines for peripheral control</li> <li>• The main frequency is 16MHz</li> <li>• Eight RJ12 ports and supports a variety of peripheral sensors</li> <li>• Equipped with 7.4V1000mAh battery</li> </ul>
<b>Large Servo Motor*2</b>	<ul style="list-style-type: none"> <li>• High-torque bidirectional drive</li> <li>• Precise angle control (<math>\pm 1^\circ</math> accuracy)</li> </ul>
<b>Ultrasonic Sensor*1</b>	<ul style="list-style-type: none"> <li>• Measures obstacle distance (4-280cm)</li> <li>• Calculates via ultrasound TX/RX time difference</li> </ul>

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## BUILDING MODELS DETAILS

ELECTRONIC GAMING	ELECTRONIC MECHANICAL ARM	ELECTRONIC PLOTTER	ELECTRONIC GUITAR	ULTRASONIC 4 WDD
				
SMART CAR	ELECTRONIC BLENDER	SMART FAN	FOLLOWING ROBOT	
				

**Manuals :**

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

**General Terms:**

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

**Warranty:**

2 Years

**ORDERING INFORMATION :**

ITEM	MODEL NUMBER	CODE
AI PROGRAMMING ROBOT BUILDING KIT	GT-P09	700-730

\* Proposed design only, subject to changes without any notice.