

# ROBOMASTER EP CORE



Learning Unleashed

## ➔ WHAT is the product?

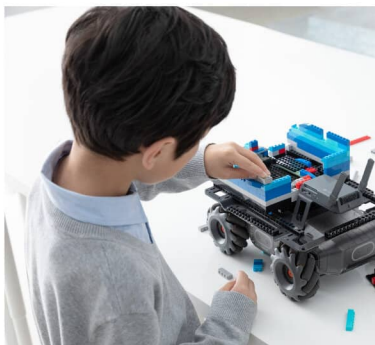
This **advanced educational robot** provides a physical computing solution combining **computing, robotics, engineering & artificial intelligence** for a wide range of ages & experience levels.

## ➔ WHERE does it stand out?

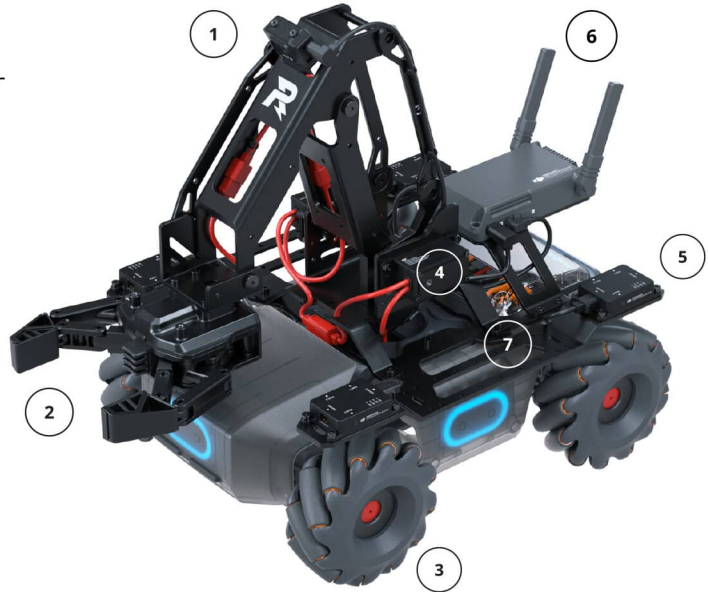
- **High-Performance** Mechanical Accessories for **Hands-On Learning**
- Increased **Expandability** via 3rd Party Hardware, such as:
  - Lego bricks, 3D printed objects
  - micro:bit, Arduino, Raspberry Pi
  - NVIDIA Jetson Nano
  - Sensors (4 sensor adaptors)
- **Real-World AI** Implementations
- **Project-Based** Courses
- Standards Aligned **Curriculum**

## ➔ WHO is it for?

- Middle Schools
- High Schools
- Scratch & Python Programmers
- STEAM Educators



## FEATURES



### 1) Robotic Arm

- Durable, compact and flexible with precise controls

### 2) Gripper

- Adjustable gripping force to firmly and reliably grasp objects of various shapes, weight and size

### 3) Mecanum Wheels

- 12 rollers on each wheel allows omnidirectional movement and precise control

### 4) High-Performance Servo & Motor

- Ensures high control accuracy, large output torque
- Powers Robotic Arm

### 5) Sensor Adapters & Power Connector Module

- Sensor Adapters have two ports each, provide connectivity to various kinds of sensors
- Power Connector has multiple ports, provides power

### 6) Intelligent Controller

- Powerful CPU supports simultaneous functions

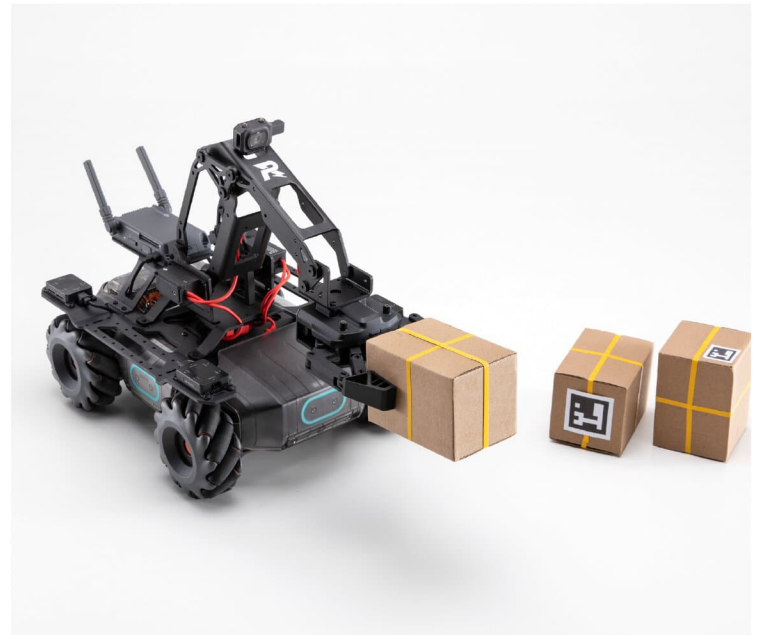
### 7) Infrared Distance Sensor

- To avoid obstacles and sense the environment

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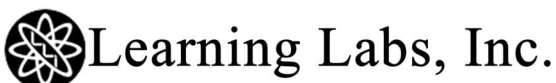
## ➔ WHEN would it be used?

- STEAM-Based Classrooms
- Coding Courses (Scratch & Python)
- Artificial Intelligence (AI) Learning
- Custom Programming Projects
- Robotics Competitions

## ➔ WHY is it good for Education?

- [Teaching Resources](#)
  - 18 Project-Based Courses
  - Curriculum Standards (CSTA, NGSS)
- Open [DJI SDK](#) for Custom Programs
  - Video & Audio Streaming Data
  - Swarm for multiple units
- RoboMaster EP Core [Competition Database](#)
  - Rules & Operation Plans
  - Variety of Events & Activities
- School [Sample Program](#)

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## FAQ

**As a teacher without programming skills, can I use this?**

- **Yes.** Teachers can find rich educational resources in the product site and the RoboMaster app, including project-based courses, tutorials, an introduction to Scratch and SDK programming.

**What is the recommended age group?**

- RoboMaster EP Core is recommended as a teaching tool for students in [middle and primary school](#). It is also suitable for [higher education](#).

**How long is the battery life?**

- Battery life during use is [85 minutes](#), and the charge time is 90 minutes.

**What is the video transmission range?**

- Max of [230 to 1,000 feet](#) depending on Wi-Fi or Router connection.

**How do I connect the RoboMaster EP Core with the app?**

- The RoboMaster EP Core can be connected via [Wi-Fi or router](#).

**What expansion ports does the RoboMaster EP Core have?**

- Apart from the [PWM, SBUS, UART, and USB ports](#) on the Intelligent Controller, the RoboMaster EP Core also provides [4 sensor adapters](#).