

**MBIT108-EN-L**

## **MICRO:BIT MAQUEEN LITE ROBOT STEM EDUCATION MONATGE EN 60S**



### **INTRODUCTION**

**Note:** The product includes [micro: Maqueen Lite-micro:bit Educational Programming Robot Platform](#) with Red skin (Installed). ROB0148-EN-L

[micro:bit board](#) and batteries are not included.

The pretty skin not only makes it **more popular with children** but also effectively **protects the core circuit** from damage. If you only need the skin, [please click here](#).

Maqueen Lite is a STEAM educational programming robot. Despite a mini-body, it comes with an exquisite appearance and inherits the playability and simple operation of micro:bit. Besides, there are housings with four lively colors red, green, blue and gray designed for Maqueen Lite, which makes it more popular with kids.

Maqueen Lite works well with both micro:bit V1 and V2, and integrates rich peripherals like ultrasonic ranging sensor, IR receiver, IR line-tracking sensor, LED car lights, RGB ambient lights, etc.

Suggest Age: 8 +

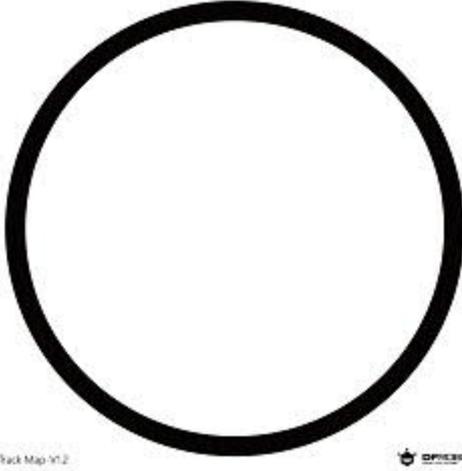
Maqueen is accessible to [Mind+ Programming platform](#) now. Mind+ is a graphical programming platform from DFRobot, supporting Python, Arduino, and other programming platforms. At present, Mind+ has been applied to all kinds of sensors, modules, and related educational products.

We recommend that students choose micro: Maqueen Lite with skin, easier to operate. Motors, vehicle wheels, support wheel, skin, and battery holder has been installed before delivery.

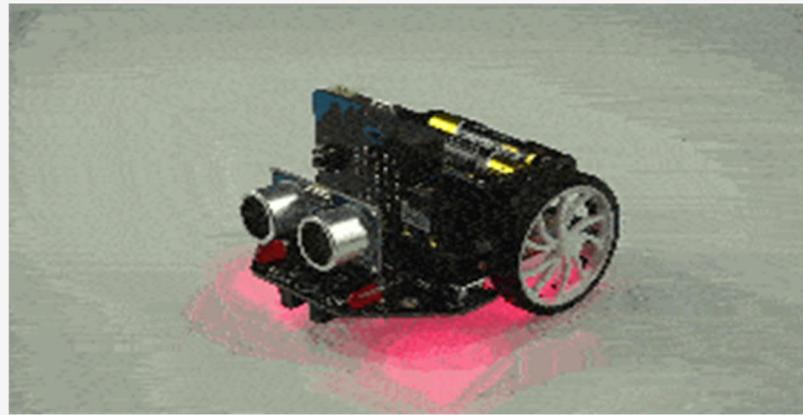
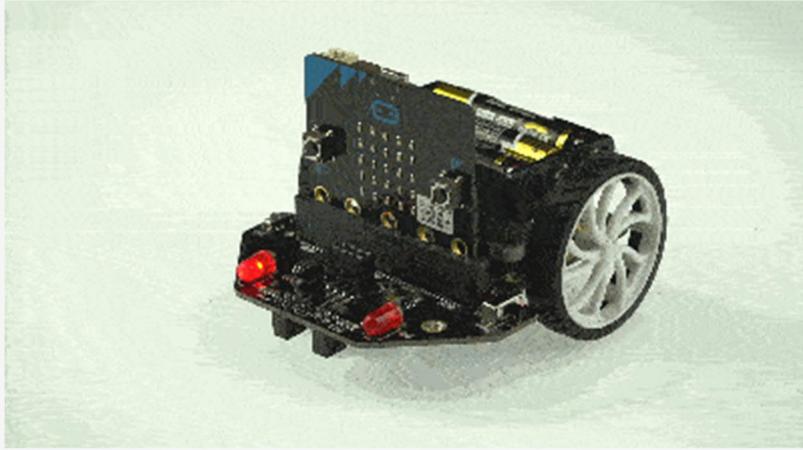
This kit includes a track map, more suitable for teaching.

**The Differences between  
micro: Maqueen Lite with skin & micro: Maqueen Lite**

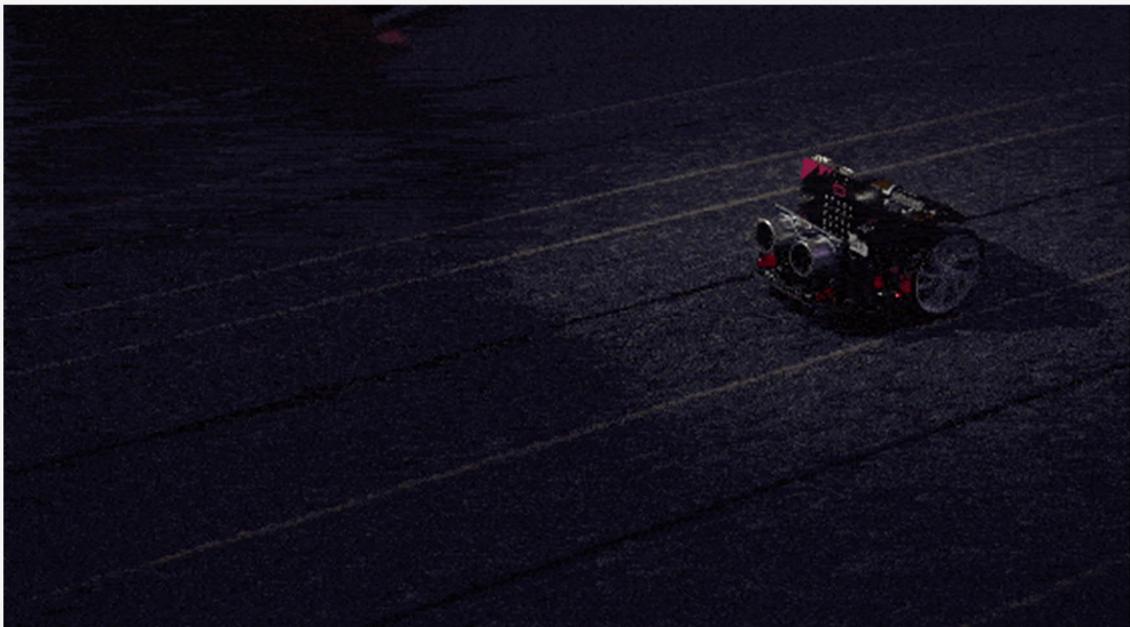
<b>Product</b>	<a href="#"><u>micro: Maqueen Lite with skin</u></a>	<a href="#"><u>micro: Maqueen</u></a>
<b>Installed</b>	<p style="text-align: center;">√ (Parts and skin has been installed before delivery)</p> 	<p style="text-align: center;">× (Spare Parts)</p> 
<b>Map</b>	√	×

	 <p>Track Map v1.2 </p>	
<b>Color</b>	 <p><a href="#">Red</a> / <a href="#">White</a> / <a href="#">Blue</a> / <a href="#">Green</a></p>	<b>Not selectable</b>

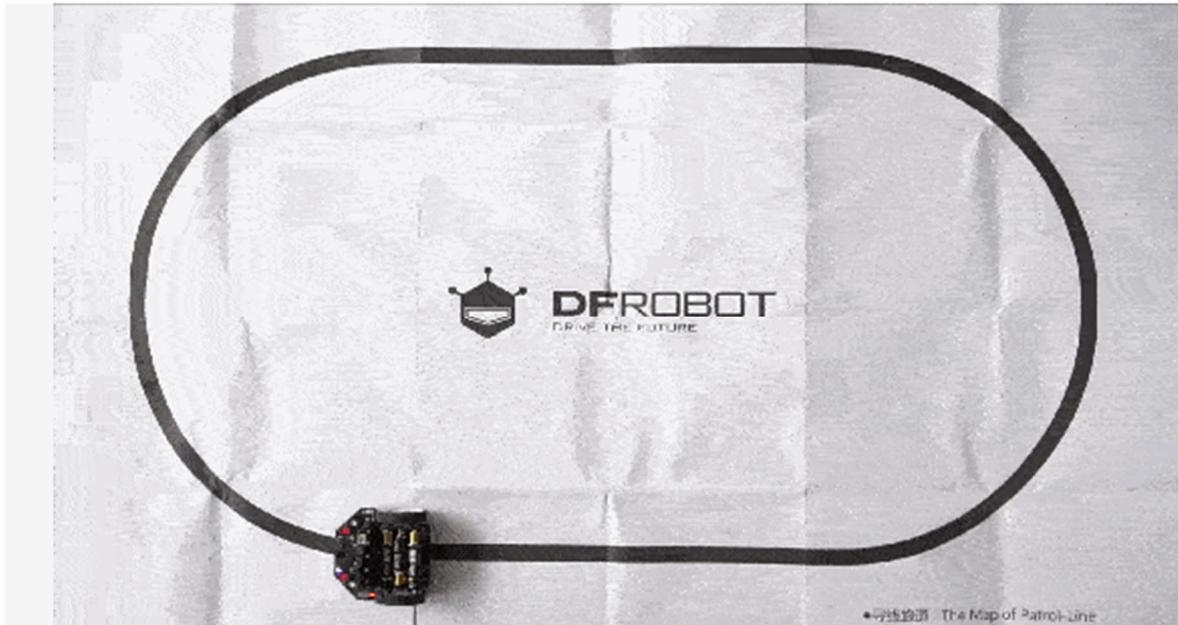
LED Light Flash and RGB Breathing Ambient Light:



Light-operated Sprite:



Line Tracking:



## FEATURES

- Exquisite appearance and lively colors, popular with kids
- No need to install, get started in minutes
- Latest Maqueen 4.2 core, stable and steady performance
- Support micro:bit V1 and V2 and Maqueen Mechanic Kit

## APPLICATIONS

- STEM Education

## SPECIFICATION

### Maqueen Lite:

- Supply Voltage: 3.5V~5V DC ( Three AAA batteries )
- Infrared Line-tracking Sensor (High/low level) x 2
- Buzzer x 1
- Infrared Receiver (NEC encode) x 1
- LED Car Lights (High/low level control) x 2
- RGB Ambient Light (Full 16 million colors) x 4
- SR04 Ultrasonic Interface (5V) x 1
- I2C (3.3V) x 1
- Servo Port (S1 S2) x 2
- Gravity Expansion Port (P0, P1, P2) x 3
- N20 Metal Gear Motor x 2
- Motor Reduction Ratio: 1:150
- Maximum Rotate Speed: 133 rpm
- Motor Drive Mode: PWM
- Support Wheel Material: POM
- Vehicle Wheel Material: ABS

- Tyre Material: eco-friendly rubber
- Programming Method: MakeCode, Mind+
- Dimension: 81x 85 x 44mm/3.19 x 3.35 x 1.73" (micro:bit not included)
- Weight: 75.55g (Battery, micro:bit, and peripheral accessories not included)

#### **Skin (Installed):**

- Skin Material: eco-friendly ABS
- Weight: 60g
- Color: Red-blue-green-white

## **DOCUMENTS**

- [https://wiki.dfrobot.com/micro\\_Maqueen\\_Lite\\_for\\_micro\\_bit\\_SKU\\_ROB0148-EN-L](https://wiki.dfrobot.com/micro_Maqueen_Lite_for_micro_bit_SKU_ROB0148-EN-L)

## **SHIPPING LIST**

- Maqueen Lite Vehicle Body x1

(Note: Motors, vehicle wheels, support wheel, skin, and battery holder have been installed before delivery)

- H-SR04 Ultrasonic Sensor x1
- Line-tracking Map x1