

INTRODUCTION

Note: Batteries are not included.

What's new in Maqueen Plus V2?

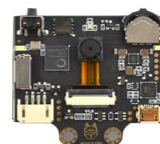
1. Two versions to choose from: 4 AA battery and [18650 battery](#)
2. New plastic box with a deeper base, enough room for the assembled car
3. Frosted acrylic protective plate at the bottom, more durable and reliable
4. The number of Line-tracking sensors has changed from 6 to 5, more convenient to program and optimize line-tracking codes
5. Employs the motors whose parameters are the same as previous Maqueen, running steadily and smoothly
6. Changes ultrasonic sensor to SR04, easier to install
7. Add 4 RGB ambient lights at the base, RGB car lights have been changed to LEDs
8. Delete the less usable magnetic encoder

[micro:Maqueen Plus + HUSKYLENS](#)

Kit One



micro:Maqueen Plus V2
(Ni MH Rechargeable Battery)



HUSKYLENS

[micro:Maqueen Plus + HUSKYLENS \(with micro:bit V2\)](#)

Kit Two



micro:Maqueen Plus V2
(Ni MH Rechargeable Battery)
x 1



HUSKYLENS x 1



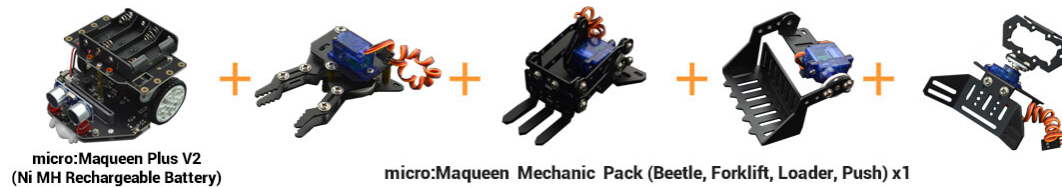
micro:bit V2 x 1



USB Cable x 1

micro:Maqueen Plus + Mechanic

Kit Three



micro:Maqueen Plus + Mechanic + micro:bit V2

Kit Four



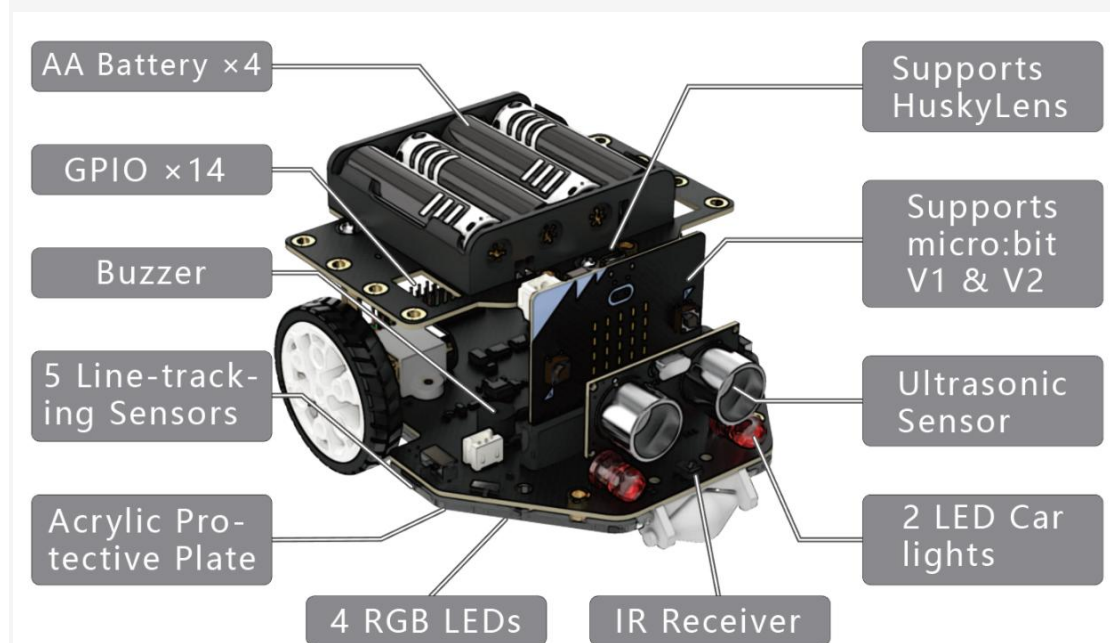
micro:Maqueen Plus + Mechanic + micro:bit V2 + Gamepad

Kit Five



Maqueen Plus V2 is the latest version of the STEAM educational robot Maqueen Plus. Optimized with more expansion ports, larger capacity power supply, and larger body, it is fully compatible with more peripheral components like HuskyLens AI camera, Maqueen Mechanic Kits, which makes it an accessible STEAM robot teaching tool for primary and secondary students. Maqueen Plus V2 is not only suitable for classroom teaching, but also can be used for after-school extended exercises and robot competitions.

Besides all the functions of Maqueen Lite, it offers richer and more flexible functions and stronger performance. Whether you have ever used Maqueen Series products or not, you'll find it very easy to get started.



FEATURES

- No complex assembly, get started in minutes
- More IO expansion ports: 3.3V IO×7, 5V IO×3, I2C×3
- 5 line-tracking sensors, reliable and flexible
- Larger body, more flexible expansion methods
- Two versions to choose from: AA battery and 18650 battery
 - AA battery version supports 1.2V Ni MH battery or 1.5V alkaline battery, while [18650 battery version](#) supports 3.7V 18650 battery
- Works well with HuskyLens AI camera
- Rich peripherals: IR receiver, LED car lights, RGB ambient lights, buzzer, ultrasonic sensor, etc.
- Frosted acrylic protective plate at the bottom
- Storage box with a deeper base to provide enough room for the assembled Maqueen Plus car

APPLICATIONS

- STEM Education

SPECIFICATION

- Power Supply: MBT0021-EN: 1.5V AA alkaline battery x 4 or 1.2V AA Ni-MH battery x 4
- Support micro: bit V1 and V2

- N20 All-metal Gear Motor x 2
- Motor Reduction Ratio: 1:150
- Buzzer x 1
- 5V IO (P0 P1 P2) x 3
- 3.3V IO (P0 P1 P2 P8 P9 P12 P16) x 7
- 3.3V I2C x 2
- 5V I2C x 1
- Large Size LED Car Lights x 2
- RGB Ambient Lights x 4
- Line-tracking Sensor x 5
- Line-tracking Sensor with One-key Calibration
- IR Receiver x 1
- SRO4 Ultrasonic Module x 1
- Dimension: 136mm×65mm/5.35×2.56"
- Programming Platform: Mind+, MakeCode
- MakeCode Library Address: https://github.com/DFRobot/pxt-DFRobot_MaqueenPlus_v20

DOCUMENTS

- [Product wiki](#)
- [Maqueen Plus V1 Basic Tutorial](#)
- [Maqueen Plus V1 Tutorial Series-MakeCode](#)

SHIPPING LIST

- Maqueen Plus V2 (AA battery) Vehicle body x 1
(Note: the motor, vehicle wheel, support wheel, and battery panel have been installed before delivery)
- H-SR04 Ultrasonic Sensor x 1
- Line-tracking Map x 1