INTRODUCTION

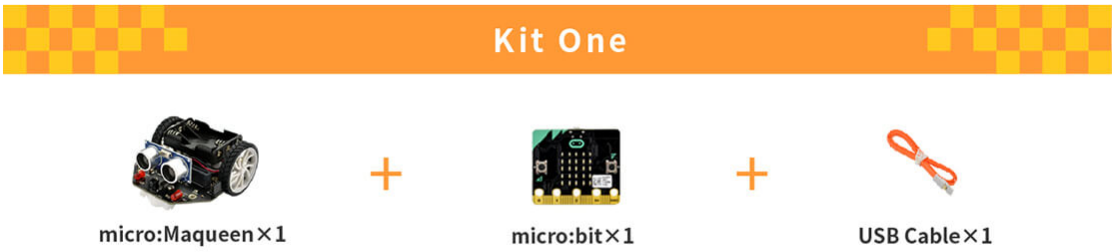
Remind: micro:bit board and batteries are not included.

Here comes Maqueen – micro:bit educational programming robot platform Maqueen is an easy-to-use micro:bit programming robot for STEAM education, which inherits the playability and simple operation of micro:bit. With a mini body, play-and-play, it allows students to quickly learn graphical programming in an entertaining way while nurturing their interests in science and logical thinking.

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.

micro: Maqueen (with micro:bit)



micro: Maqueen (with micro:bit/micro:Gamepad)

micro: Maqueen (with micro:bit/IR Remote Controller)

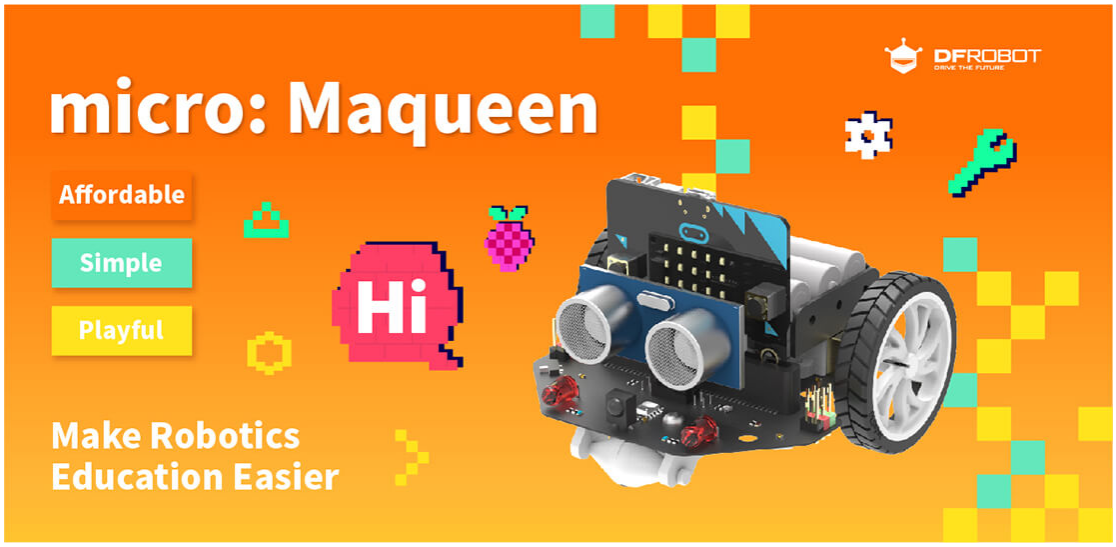
Kit Three

micro: Maqueen×1 + micro:bit×1 + IR Remote Controller×1 + USB Cable×1 + Line-tracking Map×1

micro: Maqueen (with micro:bit/micro:Gamepad/IR Remote Controller)

Kit Four

micro: Maqueen×1 + micro:bit×2 + micro: Gamepad×1 + IR Remote Controller×1 + USB Cable×2 + Line-tracking Map×1



Affordable
No budget pressure

Palm size
Small enough to carry and collect

Quick to Assemble
Save time for entire class

Easy to Start
Friendly and playful to beginners

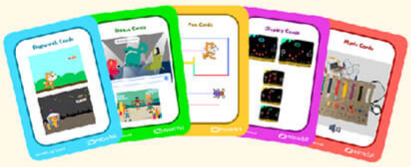
Coding Language path
Learn from blocks to text coding

Powerful
All basic functions you can think of

Wide Extension
DIY projects with endless possibilities

Abundant Teaching content
Online tutorials and guidebook available

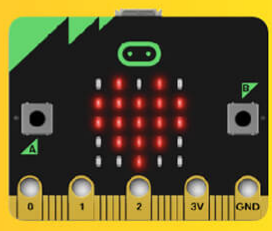
Weapon Maqueen with micro:bit as brain!



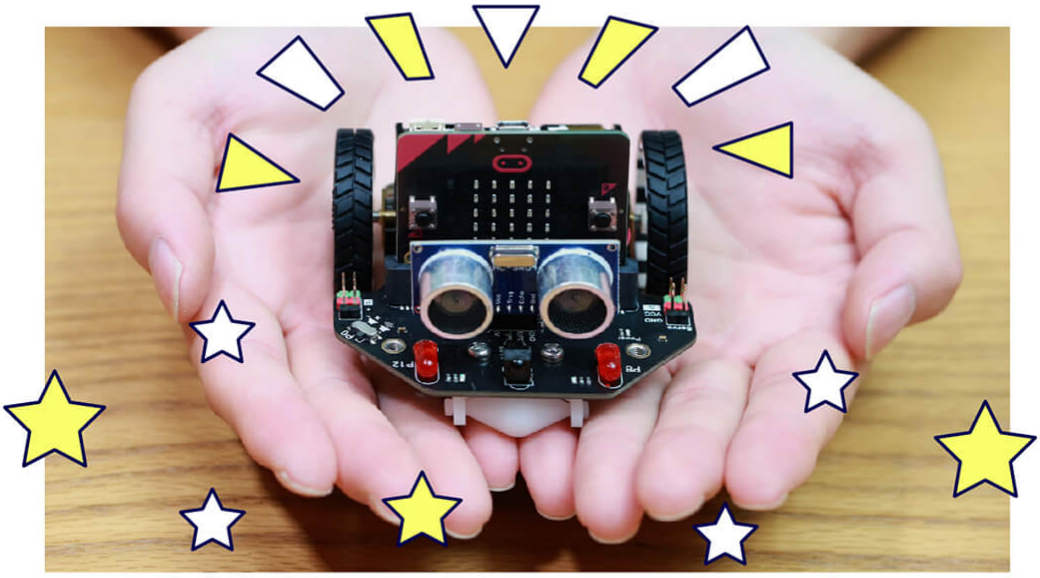
Stand on the shoulders of giants, enjoy online educational sources together with 4 million children

micro: bit is a tiny programmable computer which is portable and only palm-sized. It is designed for primary and secondary school students to learn digitalized and computer thinking. micro:bit makes teaching and learning simple and fun.

Learn more



Small but Powerful



Running Maqueen
Powerful drive motor + customized POM bearing wheels

Line Tracking Expert
With line tracking sensor, Maqueen can move and turn around along with certain route.

Sharp Eyes
Take ultrasonic sensor as eyes to avoid obstacle, range and follow object.

Light Chaser
Track light and run towards to it.

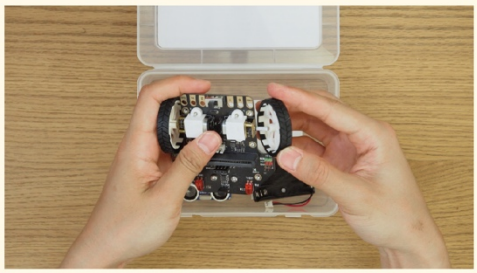
Lighting Show
Create music with Buzzer and colorful stage with RGB lights.

Sharp Eyes
Take ultrasonic sensor as eyes to avoid obstacle, range and follow object.

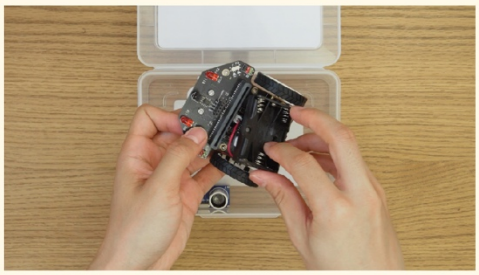
Easy to Build in 60s

4-step assembly,Fool Proof

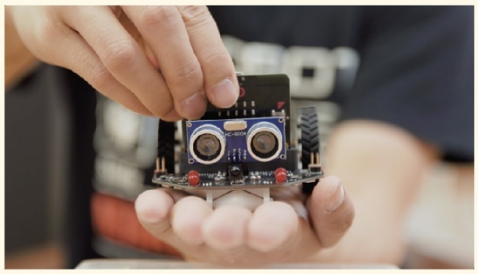
Save efforts for entire-class teaching and leave more time to create and play



1.Install wheels



2.Fix battery holder

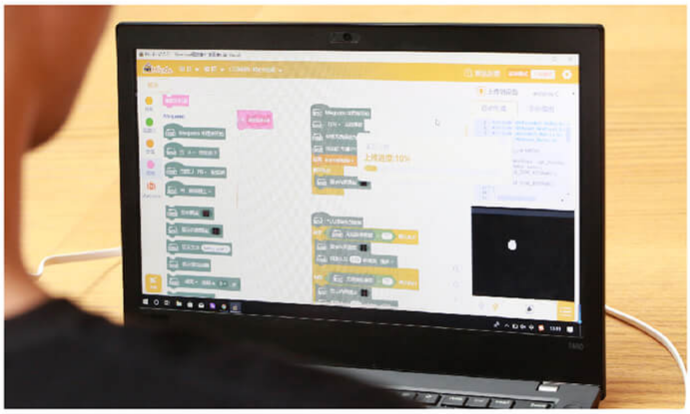


3.Plug in micro: bit(order separately)

4.Install ultrasonic sensor

Start Graphical Programming in 1 Hour

1 Graphical Programming, play coding in blocks while learn programming and logical thinking.



2 Support multiple platforms: Mind+, Makecode, Scratch, Python; grow from zero to hero.

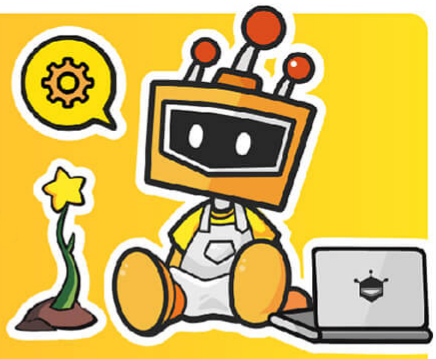
Mind+ SCRATCH MakeCode python

Mind+

The only thing and everything for kids to start hardware programming.

Website: mindplus.cc

FREE DOWNLOAD



01

Three mainstream open source hardware platforms support

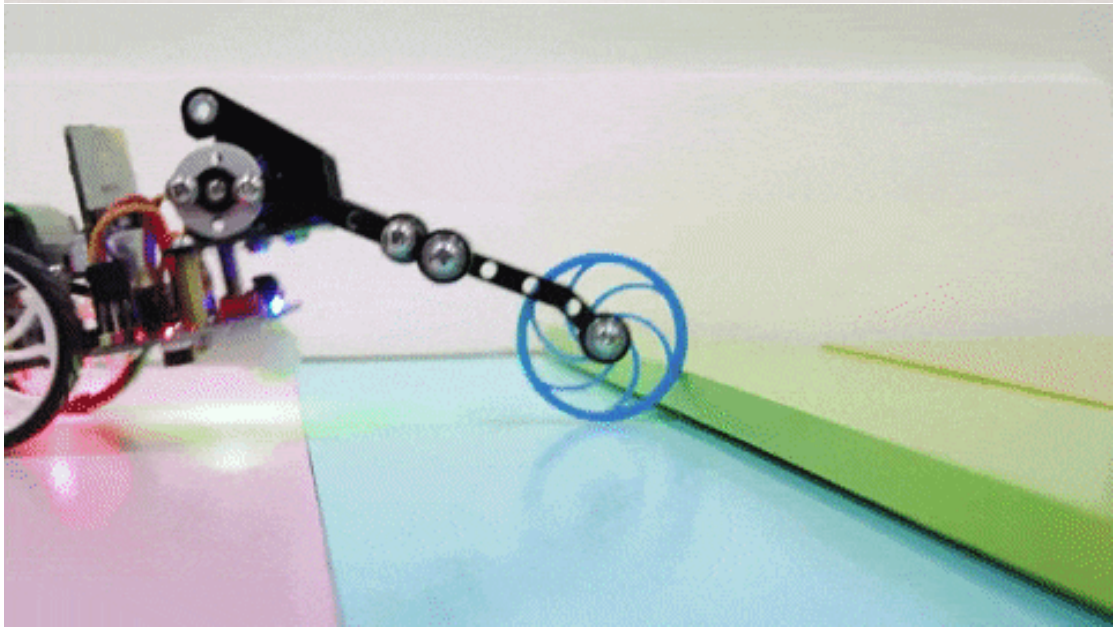
02

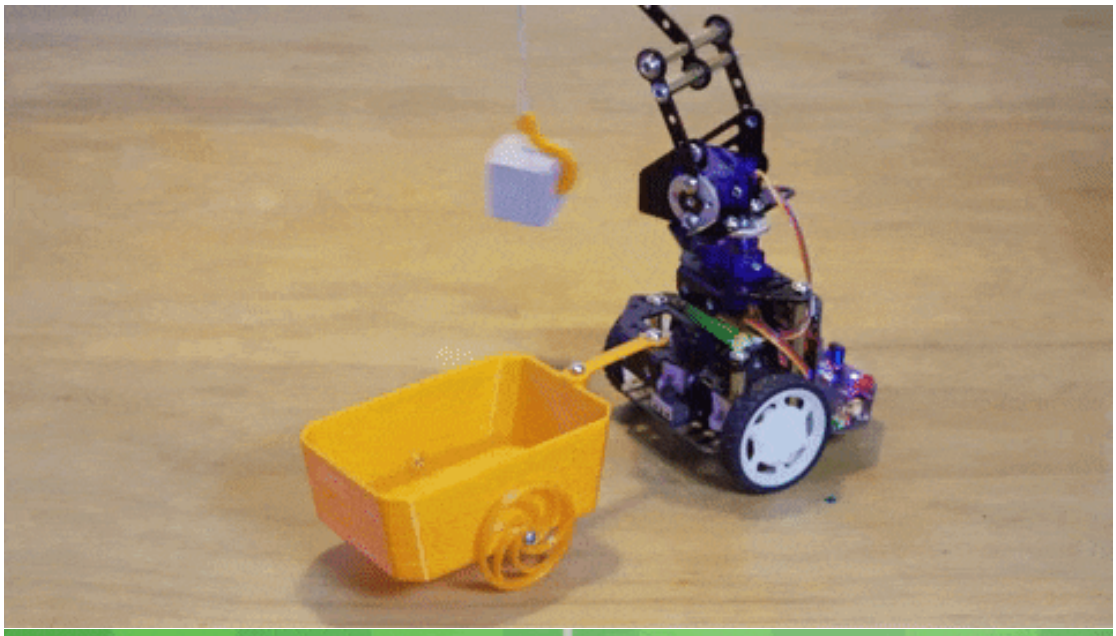
Wide range add-on component support

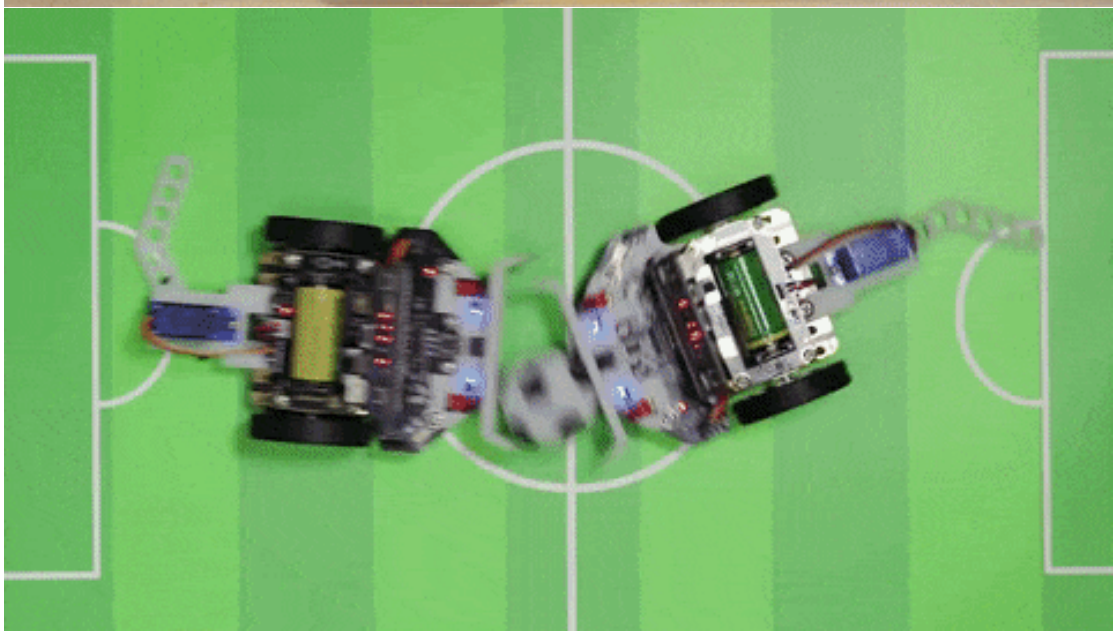
03

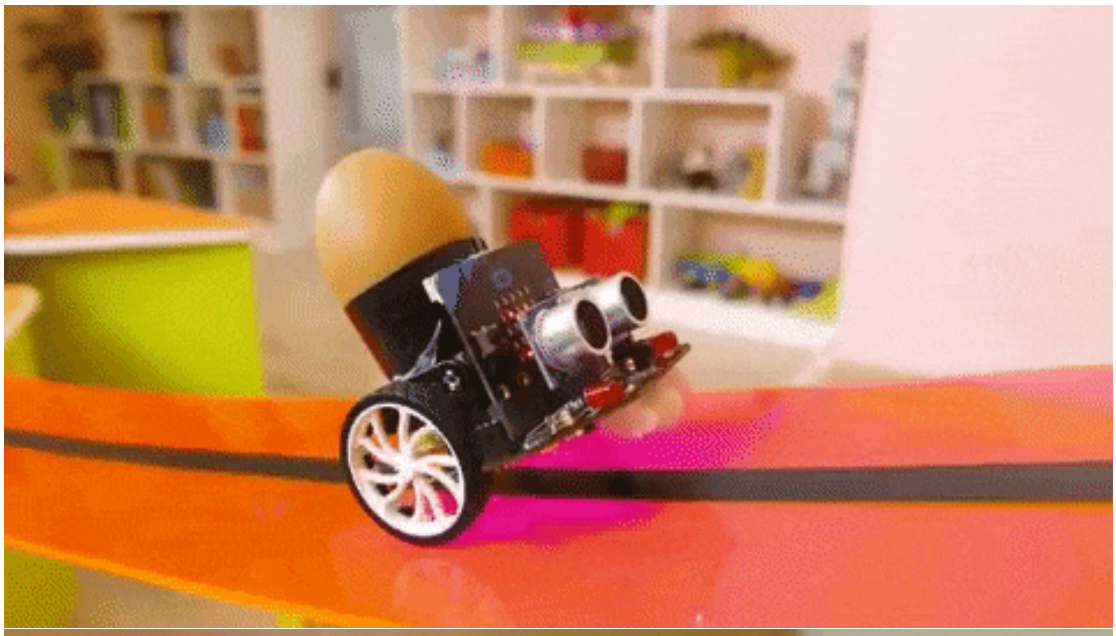
Convert blocks into coding languages by build-in interpreter

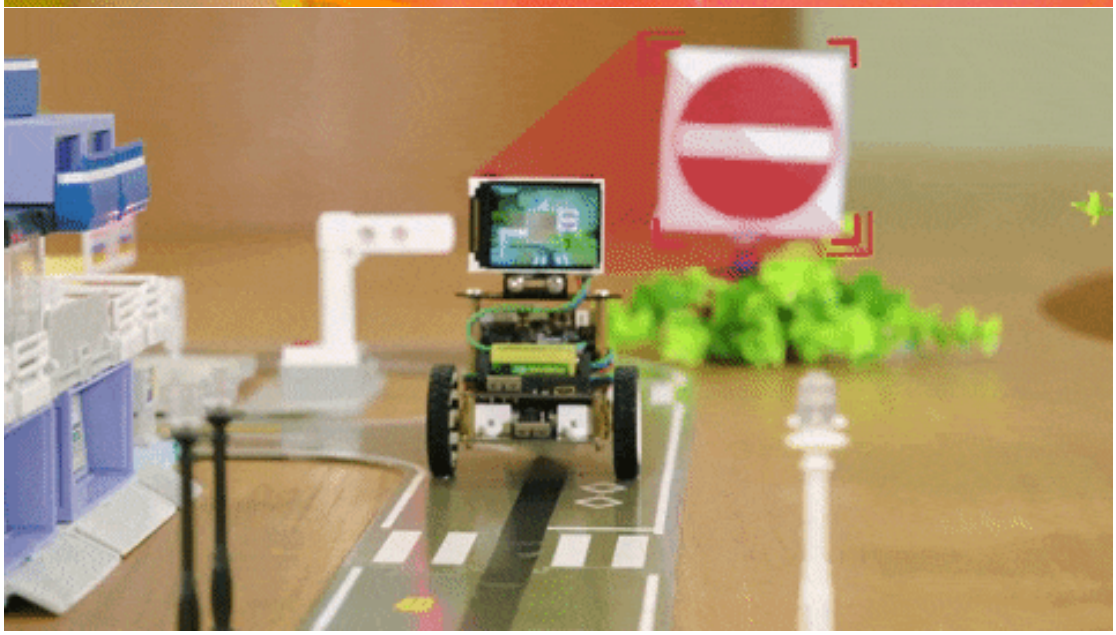
Enjoy Hundreds of Creative Hacking Projects in 3 Hours











Free Game Cards and Rich Tutorials Available

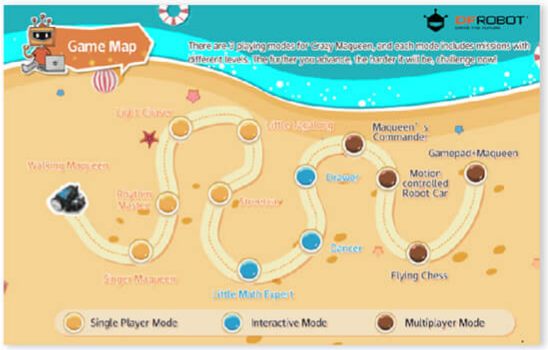
Quick Start Guide
help beginners to quickly start and learn

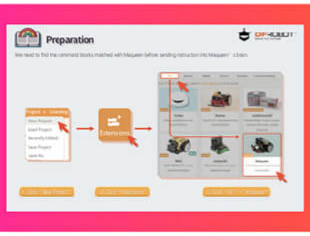
Game Card
13 challenges are prepared for a fun adventure in Maqueen

Book "Maqueen & microbit Graphical Programming"
a textbook for robotics and programming learning and teaching

Crazy Maqueen Game card

FREE DOWNLOAD





There are 3 playing modes for Crazy Maqueen,and each mode includes missions with different levels.The futher you advance,the harder it will be,challenge now!

● Single Player Mode

Players will unlock a piece of basic equipment in each stage

- 1:Walking Maqueen
- 2:Singer Maqueen
- 3:Rhythm Master
- 4:Light Chaser
- 5:Little Tagalong
- 6:Streetcar

● Interactive Mode

Use Maqueen' s brain micro:bit to unlock more tools like calculating, drawing,etc.

- 1:little Math Expert
- 2:Dancer
- 3:Drawer

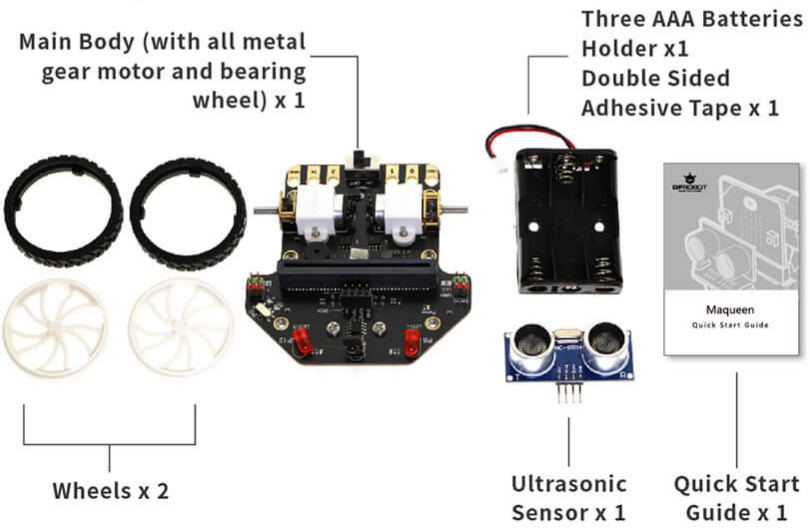
● Multiplayer Mode

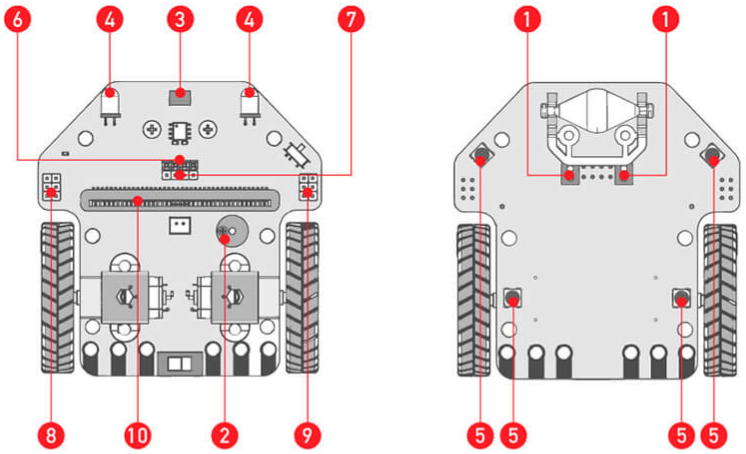
Cooperate with your teammates to complete the missions.
You could utilize external equipment to accomplish all of the tasks

- 1:Maqueen' s Commander
- 2:Motion Controlled Car
- 3:Flying Chess
- 4:Gamepad+Maqueen

Explore Endless Creativity
massive add-on components available
Firefighter Robot
fire sensor
Internet Control Robot
OBLOQ-IOT Internet modules
Ad robot
I2C OLED-2864
display screen
Voice Control
Robot
modular voice
sensor
NFC Instruction Control Robot
Near Field Communication Module

SPECIFICATION





1. Infrared Grayscale Sensor(High-low level) x 2
2. Buzzer x 1
3. Infrared Receiver (NEC decoder) x 1
4. LED Car Light (High-low level control) x 2
5. RGB Ambient Light (Full color 16 million) x 4
6. SR04, SR04P Ultrasonic Interfaces(5V) x 1
7. I2C (3.3V) x 1
8. Servo Port x 2
9. IO Expansion port x 2
10. micro: bit slot x 1

ATTESTATION

of conformity with European Directives

Attestation Number:	**1988AB0827N055002**
Product:	**micro:Maqueen for microbit Educational Programming Robot**
Brand Name:	**N/A**
Model:	**ROB0148-EN**
Additional Model:	**N/A**
Applicant:	**Chengdu Jiqu Technology Co., Ltd**
Address:	**No.188, KexingRd West, Wenjiang, Chengdu, Sichuan, China**
Technical Characteristics:	**DC 4.5V(1.5V*AAA*3) from Battery**

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and standards:

- **Electromagnetic Compatibility Directive 2014/30/EU**

Standards	Report Number	Report date
EN 55014-1:2017 **EN 55014-2:2015**	**CE190827N055**	**Sep. 18, 2019**

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive.

This verification does not imply assessment of the production of the product. The CE marking may be affixed if all relevant and effective European Directives with CE are applicable.

Senior Project Engineer
EMC Department

CE

Name: Breeze Jiang
Date: Sep. 18, 2019

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Information given in this document is related to the tested specimen of the described electrical sample.

Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

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Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

ATTESTATION OF CONFORMITY

Attestation Number:	**1988AB0827N055001**
Product:	**micro:Maqueen for microbit Educational Programming Robot**
Brand Name:	**N/A**
Model:	**ROB0148-EN**
Additional Model:	**N/A**
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Standards	Report Number	Report date
FCC Part 15 Subpart B, Class B (sDoC)	**FS190827N055**	**Sep. 18, 2019**

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements.

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Senior Project Engineer
EMC Department

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Certificate of ROB0148

Click here to get more playing video of Micro: Maqueen

If you need **the micro: Maqueen Lite Skin Pack,** please click the following links.

Blue Skin Pack

Green Skin Pack

White Skin Pack

Red Skin Pack

We also offer the kit including **micro: Maqueen Lite and skin pack, please click here.**

(Note: The skin pack is compatible with micro: Maqueen Lite. Not compatible with micro: Maqueen Plus.)

FEATURES

- Support for Makecode, will support Scratch and python later.
- Small size, flexible movement.
- All-metal miniature gear motor, good quality, strong driving force.
- Line patrol, ambient light, LED lights, ultrasonic interface, buzzer, I2C interface, mechanical expansion screw hole, etc. ... full-featured, highly expandable.
- Exclusive customized POM bearing wheel, flexible and reliable, strong obstacle crossing ability.
- Easy to install, easy to use.

SPECIFICATION

- Supply Voltage: 3.5V~5V DC (Three AAA batteries or 3.6V~3.7V lithium battery)
- Infrared Grayscale Sensor(High-low level) x 2
- Buzzer x 1
- Infrared Receiver (NEC decoder) x 1
- LED Lights (High-low level control) x 2
- RGB Ambient Light (16 million colors) x 4
- SR04, SR04P Ultrasonic Interface(5V) x 1
- I2C Interface (3.3V) x 1
- Gravity Extension Interfaces (P1, P2) x 2
- N20 All-metal Gear Motor x 2
- Motor Reduction Ratio: 1:150
- Motor Drive Mode: PWM motor drive
- Bracket and Protective Cover Extension M3 Screw Hole x 6
- Programming Method: Makecode graphical programming, Mind+ graphical programming
- Dimension: 81mm x 85 mm x 44mm/3.19 x 3.35 x 1.73in
- Weight: 75.55g

PROJECTS

1. micro:Maqueen - Assembly & Play

Introduction: Maqueen is a graphical programming robot for STEM education, which inherits playability and simple operation of micro:bit.

2. Project: Maqueen Runs The Egg

Introduction: Little Robot Transports An Egg On Obstacle Course

3. Review: Amazing! DIY Robot kit Maqueen V2.0 - BBC Micro:Bit

Introduction: The Mini-body, interesting features and plug-and-play allow children to quickly learn graphic programming in entertainment, nurturing children's interest in science and logical thinking.

4. Project: DF Robot micro Maqueen Motor and Line Sensor

Introduction: This is a DF Robot micro:Maqueen Robot for the Micro:Bit Controller, using the Arduino IDE. using a simple library I wrote that can be found here.

5. Project: Line follower robot - Micro: bit robot project - How to Make a Snake Robot

Introduction: In this tutorial, we will learn how to make a snake robot.

DOCUMENTS

- Product wiki
- Maqueen4.1-MakeCode-Tutorial
- Maqueen-CE-FCC
- Silly-Maqueen-Makecode
- Silly-Maqueen-Mindplus
- MicroPython
- Download Mind+ For Free

SHIPPING LIST

- micro:Maqueen micro:bit Educational Programming Robot Platform *1