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BBC 6000200029 Micro Bit Smart Car Owner's Manual

Contents

BBC 6000200029 Micro Bit Smart Car

Product Information

The BBC Micro Bit Smart Car is a robot car that is built on the Micro:bit development board. It utilizes the compact and aesthetic features of the Micro:bit development board and has a micro:bit dot matrix screen as the main body. The onboard Bluetooth serves as the APP communication for the car.

The car comes with a Micro bit breakout, a vertical ultrasonic sensor (including cable), two motors, an acrylic board for the ultrasonic sensor, two tires, a micro USB cable, an infrared remote control, a screwdriver, four M340 copper pillars, two M210 copper pillars, two brackets, a lithium battery, two magic stickers, an instruction manual, a universal wheel, and screws and nuts. The BBC Micro Bit Smart Car is made in China.

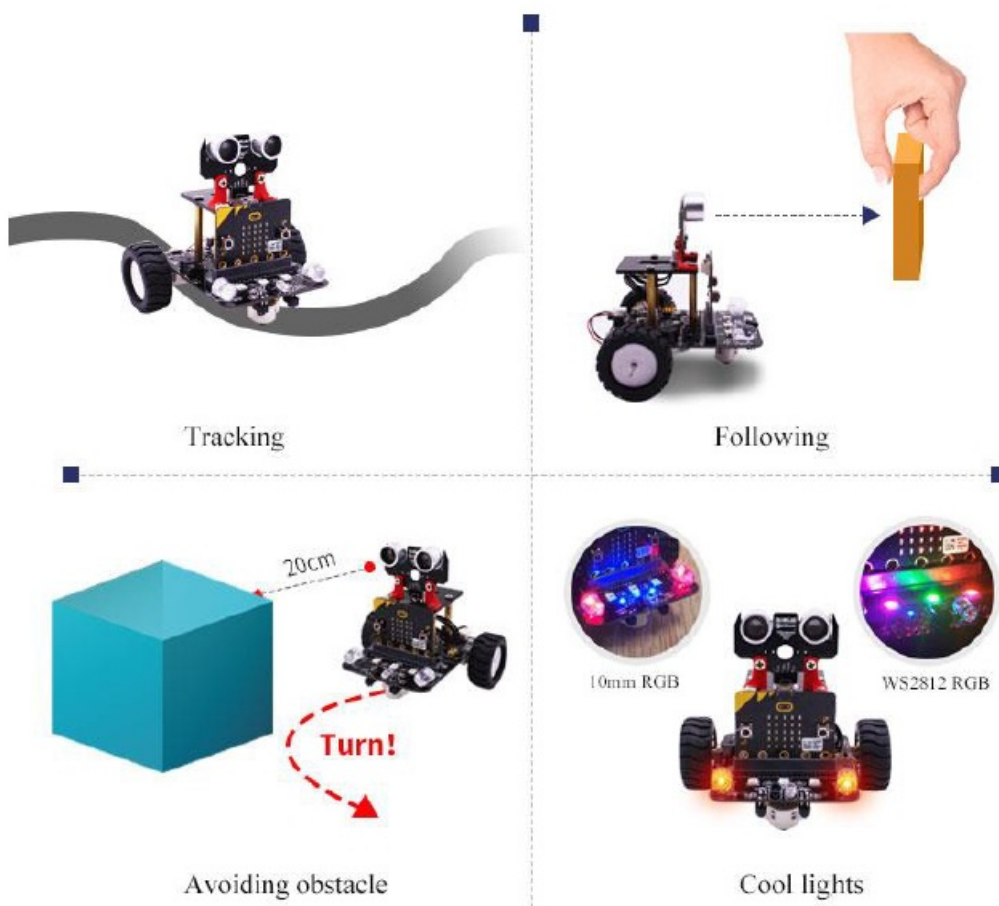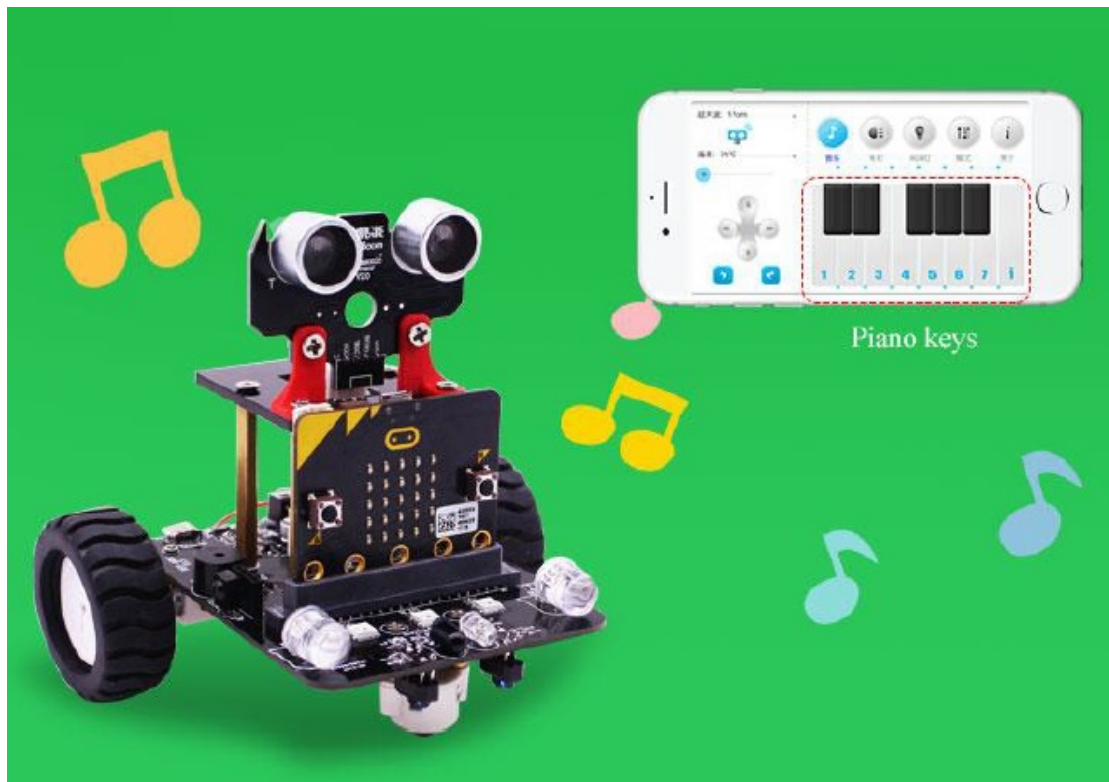## Product Usage Instructions

1. Assemble the Micro bit breakout and attach it to the micro :bit development board.
2. Attach the vertical ultrasonic sensor to the acrylic board using the M340 copper pillars.
3. Attach the ultrasonic sensor to the Micro bit breakout using the included cable.
4. Attach the motors to the motor brackets using screws and nuts.
5. Attach the motor brackets to the acrylic board using M210 copper pillars.
6. Attach the tires to the motors.
7. Attach the universal wheel to the bottom of the car.
8. Connect the lithium battery to the Micro bit breakout.
9. Use the micro USB cable to connect the Micro:bit development board to a computer and download the programming code for the car.
10. Use the infrared remote control to control the car's movements.
11. The car can also be controlled using Bluetooth through an APP that communicates with the onboard Bluetooth.

Refer to the instruction manual for further details on programming and usage.

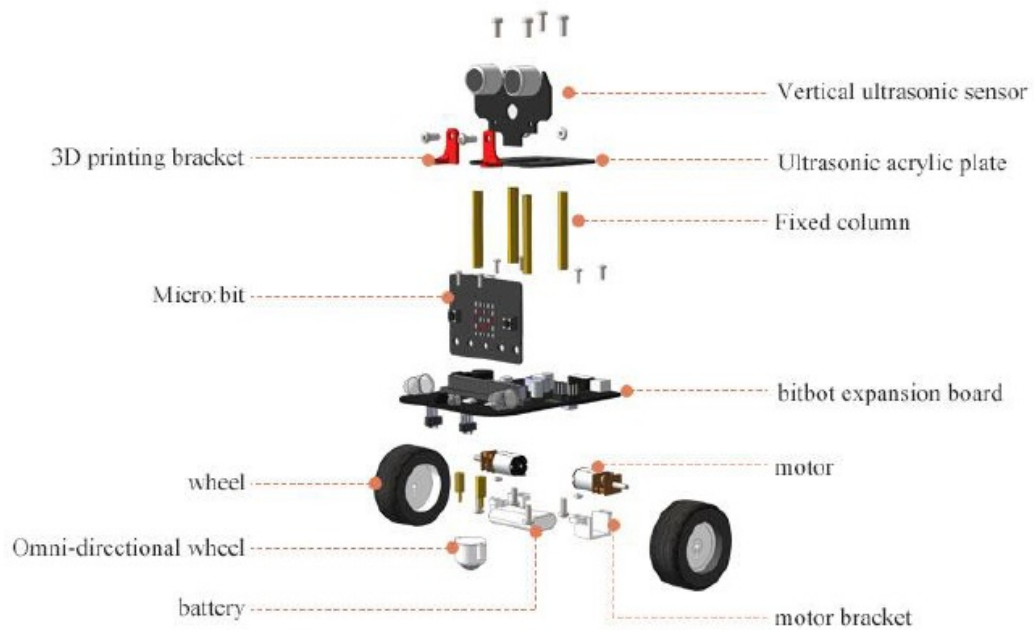## BBC Micro Bit Smart Car

Description

This micro bit smart robot car is based on the Micro:bit development board. The car fully exploits the compact and aesthetic features of the Micro:bit development board, using a micro:bit dot matrix screen as the main body and using onboard Bluetooth as APP communication .

Piano keys

Tracking

Following

20cm

Turn!

Avoiding obstacle

10mm RGB

WS2812 RGB

Cool lights

The micro:bit intelligent car is equipped with a customized infrared remote controller. The infrared remote control can be used to control the car's walking around, left and right, turning the car lights, changing the programming lights mode, etc.

Physical Specifications

- Vertical ultrasonic sensor
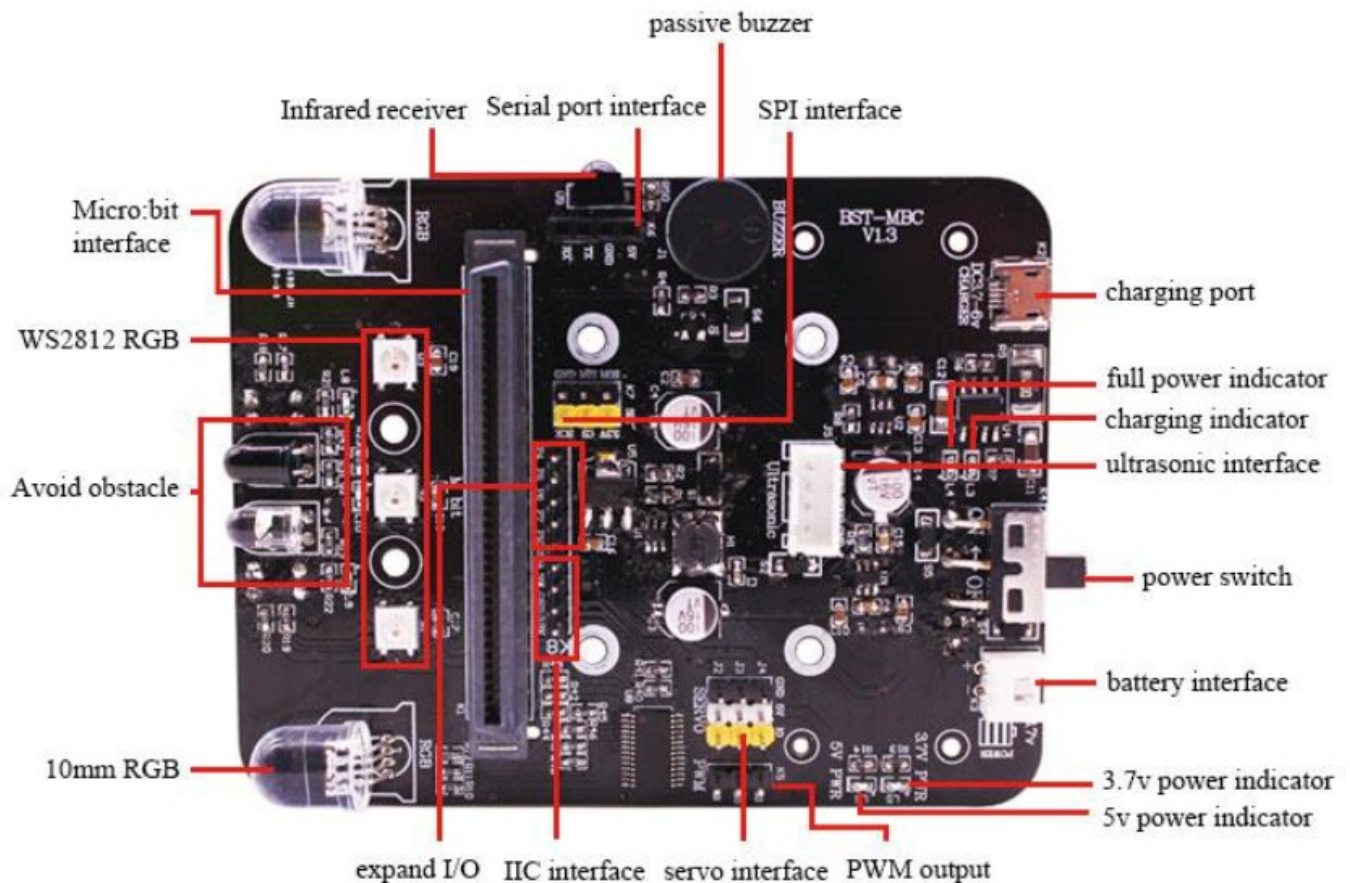- 3D printing bracket
- Ultrasonic acrylic plate
- Fixed column
- Micro:bit
- bitbot expansion board
- wheel
- motor
- Omni-directional wheel
- battery
- motor bracket

ultrasonic sensor cable interface   motor interface   battery interface

passive buzzer

Infrared receiver   Serial port interface   SPI interface

Micro:bit interface

WS2812 RGB

Avoid obstacle

10mm RGB

BST-MBC V1.3

charging port

full power indicator
charging indicator
ultrasonic interface

power switch

battery interface

3.7v power indicator
5v power indicator

expand I/O   IIC interface   servo interface   PWM output

Packaging List

- x Micro bit breakout (Not include the Micro:bit)
- 1 x vertical ultrasonic sensor (Includes cable)
- 2 x motor
- 1 x acrylic board for ultrasonic sensor
- 2 x tire
- 1 x micro USB cable
- 1 x Infrared remote control
- 1 x screwdriver 4 x M340 copper pillar
- 2 x M210 copper pillar 2 x bracket 1 x lithium battery
- 2 x magic sticker 1 x instruction manual 1 x universal wheel
- 2 x motor bracket
- Screw & nut

Made in China

Documents / Resources

BBC 6000200029 Micro Bit Smart Car [pdf] Owner's Manual
6000200029 Micro Bit Smart Car, 6000200029, Micro Bit Smart Car, Smart Car, Car