Ks0426 keyestudio Micro:bit Mini Smart Robot Car Kit V2

Introduction:

Here comes a mini STEM education DIY robot platform based on Micro:bit programming.

Micro: bit is an ARM structure microcontroller designed by BBC. It is only half size of a credit card, onboard comes with Bluetooth, accelerometer, compass, three buttons, 5x5 LED matrix, mainly used for teens programming education.

The Micro:bit Mini Smart Robot Car V2 integrates ultrasonic and infrared obstacle avoidance, line following as well as infrared and Bluetooth control functions.
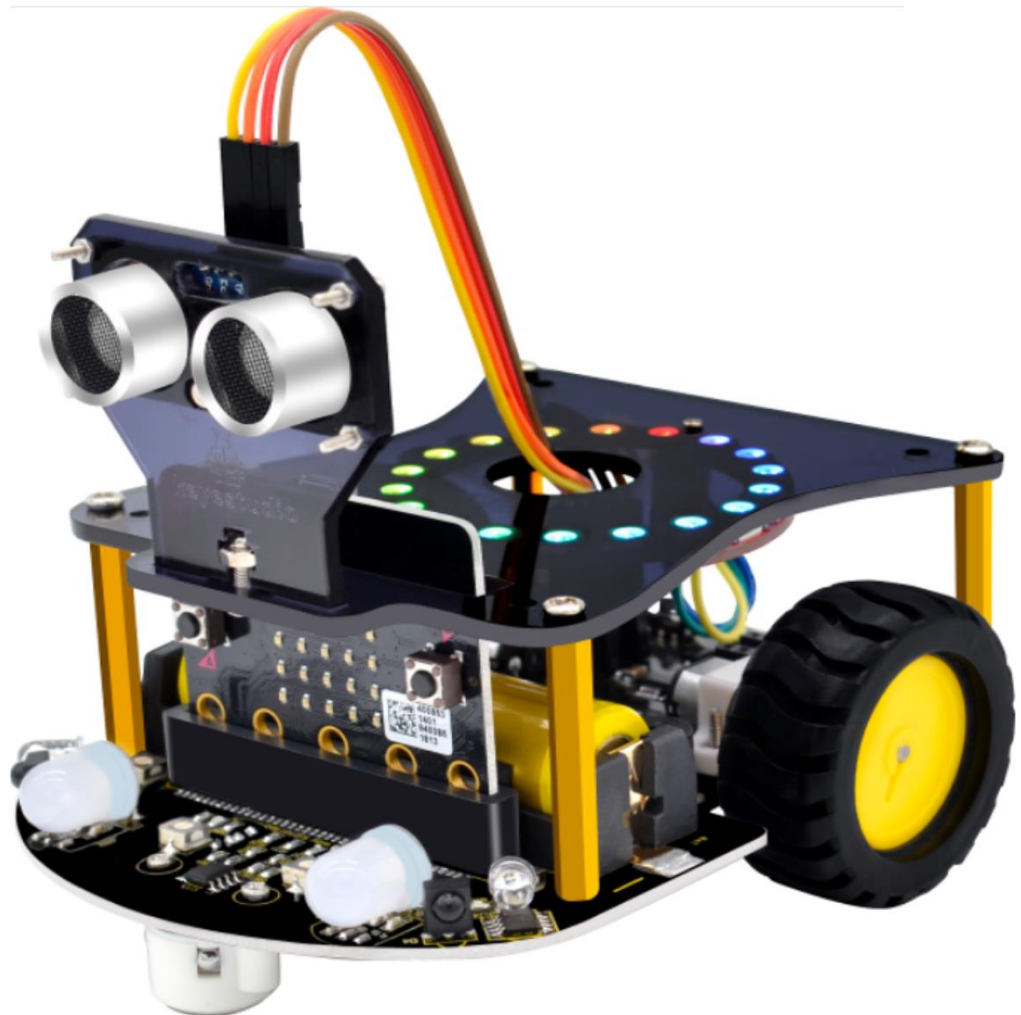
It comes with a passive buzzer for playing music; a KEYES-2812-18R module for controlling 18 RGB LED colors; a photocell for detecting the light intensity; two RGB lights used as direction light.

Moreover, the micro:bit car supports charging by 18650 batteries when run out of power. It is available to adjust the motor speed.

This micro:bit robot is a perfect toy for kids to start learning robotics. The plug-and-play allow children to quickly learn graphic programming in entertaining, nurturing children's interest in science and logical thinking.

Specification:

1) Voltage: DC 5V
2) Current: USB power supply or power supply with a capacity greater than or equal to 1A
3) Maximum power: maximum output power is 10W
4) Operating temperature range: 0-50 degrees Celsius
5) Dimensions: 120*90.7mm
6) Environmental attributes: ROHS

Resources:
https://wiki.keyestudio.com/Ks0426_keyestudio_Micro:bit_Mini_Smart_Robot_Car_Kit_V2