

MAKER WORKS TECHNOLOGY INC

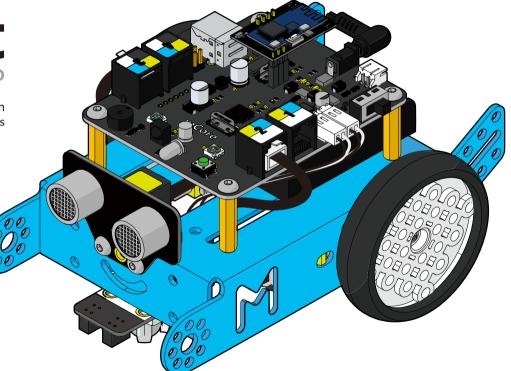
Technical support: support@makeblock.cc www.makeblock.cc



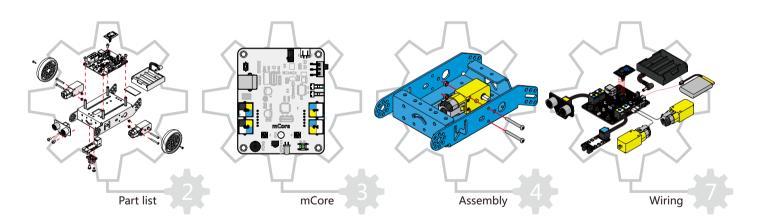


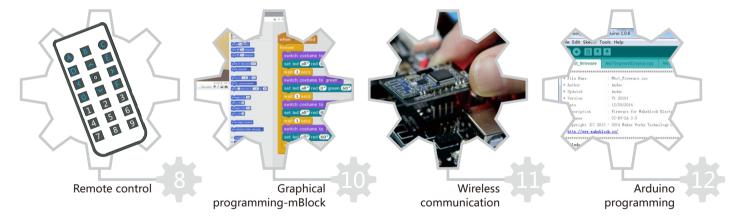
mBot ONE ROBOT PER KID

Great tool for beginners to learn graphical programming, electronics and robotics.

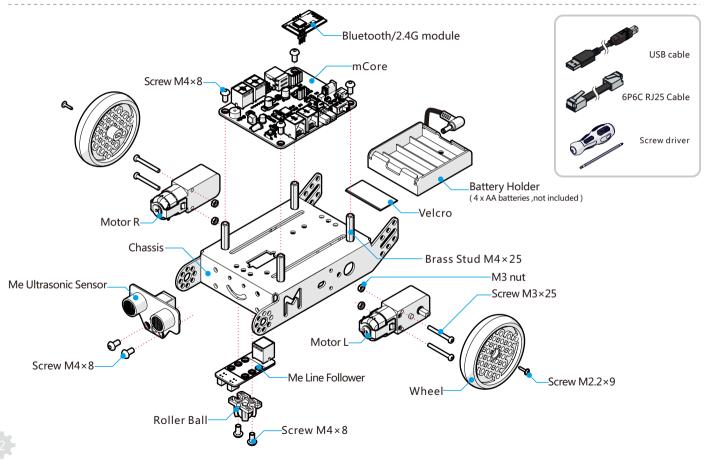


mBot is an educational robot kit for beginners to get hands-on experience about graphical programming, electronics, and robotics. It is an all-in-one solution for robotics learning and designed for STEM education.

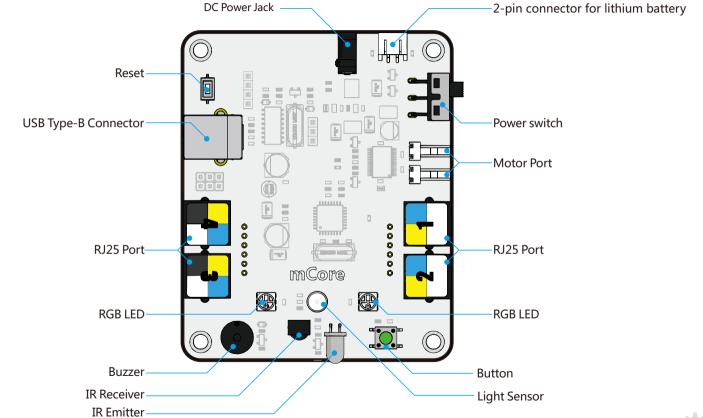




Part List



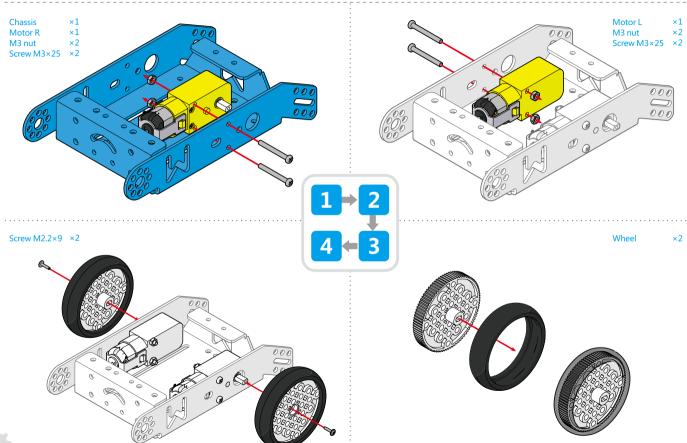
mCore

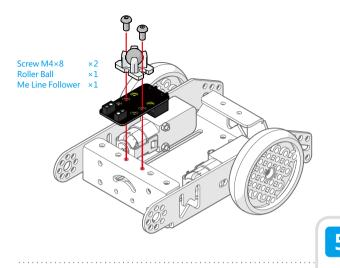




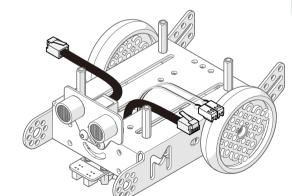


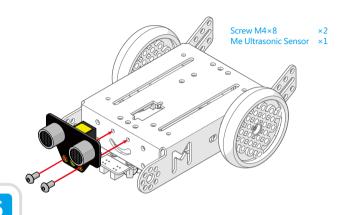
Assembly

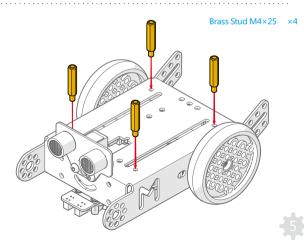




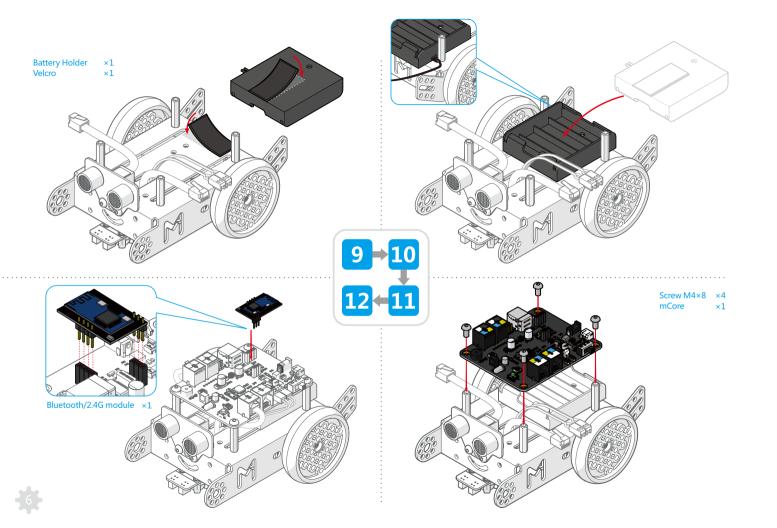




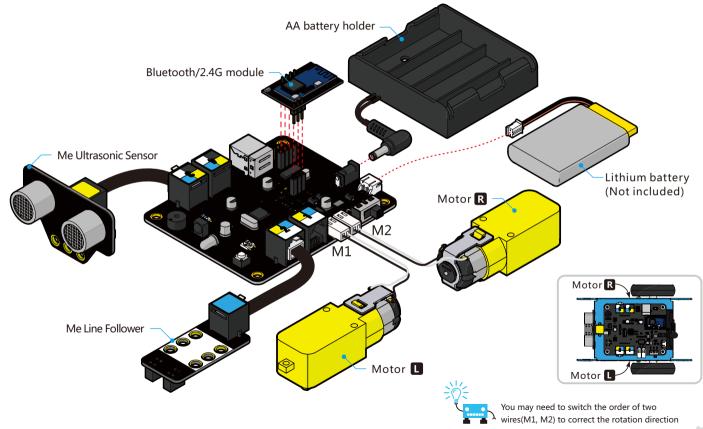








Wiring





Batteries Suggestion

mCore's power supply: 3.7V DC — 6V DC



Option 2:3.7V lithium battery(Not included) with a standard 2-pin JST-PH connector.

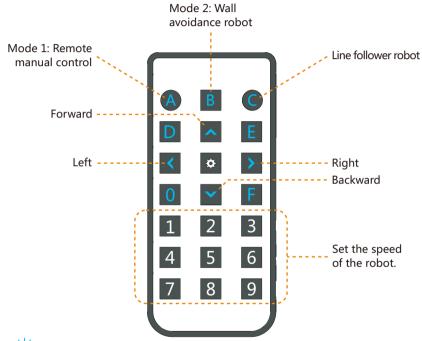


Notice:

CR2025 button cell battery for remote control is not included.



Remote Control



Mode 1: Remote manual control

Users can use buttons to control the direction and speed of mBot.

Mode 2: Wall avoidance robot

A robot that can avoid walls and obstacles while moving.

Mode 3: Line follower robot

Line follower is a robot that can follow a path. The path can be visible like a black line on a white surface (or vice-versa)



Suggestion: Play mBots on the flat surface



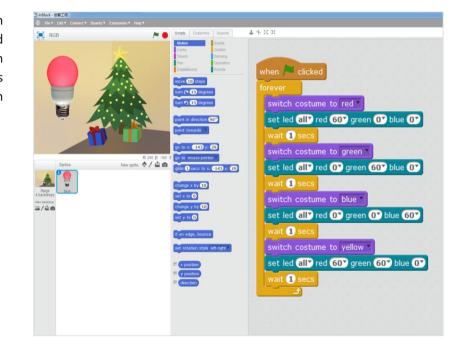


Graphical Prgramming-mBlock

Introduction

mBlock is a free modified version of Scratch 2.0 developed by MIT Media Lab. Added some hardware-related blocks based on the original Scratch, mBlock enables users to read sensors, control motors and even the whole robot with ease.

Download: http://mblock.cc/download/



Get started with mBlock to program the mBot: http://learn.makeblock.cc/mbot/



Wireless Communication

1. Introduction of Bluetooth module

This Bluetooth module is designed specially for mCore with the support of Bluetooth 2.0 and 4.0. It's suitable for both individual users and family. Users can use their smart phones or computers to control the mBots wirelessly with this module.



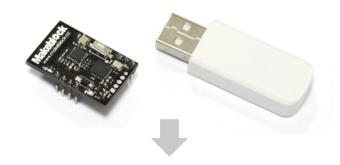


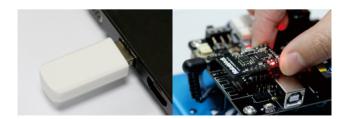


More detailed tutorials: http://learn.makeblock.cc/mbot/

2. Introduction of 2.4G wireless serial

The 2.4G wireless serial includes two parts: 2.4G wireless serial-USB for computer; 2.4G wireless serial-module for mCore. It uses the same technology as wireless mouse and is very suitable for classroom. No driver and pairing needed.





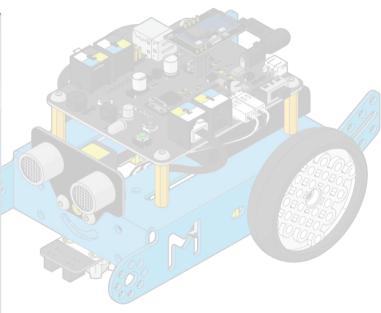
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Arduino Programming(C language)

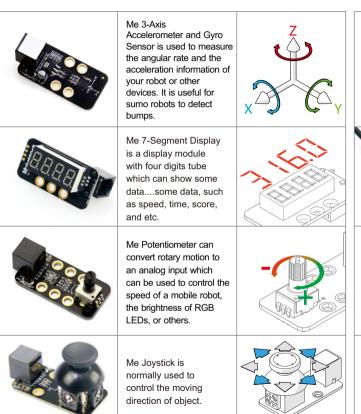
Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. The Arduino software consists of a development environment(IDE) and the core libraries. The IDE is written in Java and based on the Processing development environment.

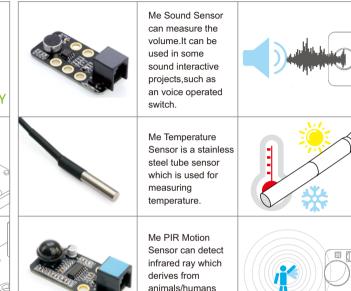




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Electronic Modules on Makeblock--Further Exploration





See More on Makeblock Platform

within 19.7 feet (6

meters)

