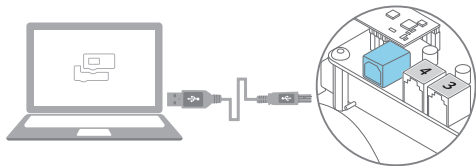Bluetooth Controller User Manual
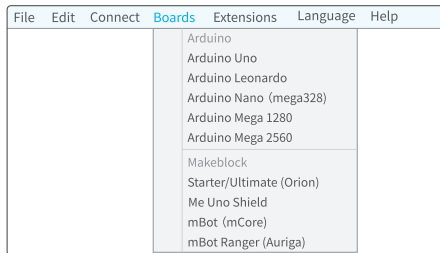
A Customize the Controller Functions

Bluetooth Controller can only be connected to the Makeblock robots with a Bluetooth module (such as mBot, mBot Ranger, Airblock and so on). In this guide, we configure the controller to control mBot as an example.

To learn how to control Airblock with the controller, please visit: http://learn.makeblock.com/en/airblock-controller/

❶ Turn on your robot and connect it to the computer via USB cable.

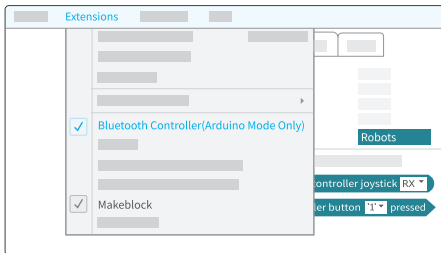❷ Open mblock (taking mBlock 3 as an example), and select the board of the connected robot.

File	Edit	Connect	Boards	Extensions	Language	Help

Arduino
Arduino Uno
Arduino Leonardo
Arduino Nano (mega328)
Arduino Mega 1280
Arduino Mega 2560

Makeblock
Starter/Ultimate (Orion)
Me Uno Shield
mBot (mCore)
mBot Ranger (Auriga)

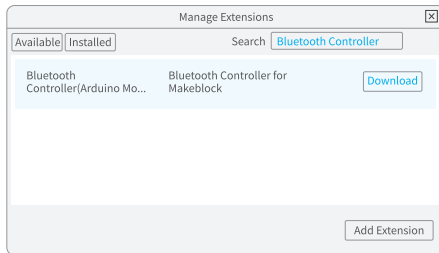To download mblock and learn more, please visit: http://www.mblock.cc

3 Select the currently used serial port.
If multiple serial port options appear, please select the port that is newly added after the robot is connected to the computer.
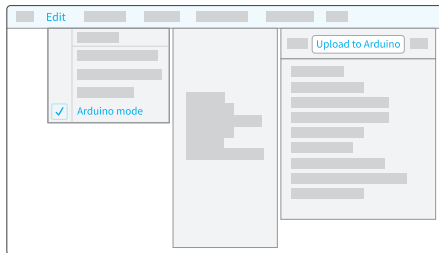
		Connect		
		Serial Port ▸	COM1	

4 Select **Extensions->Manage Extensions**. Download the extension file.

Manage Extensions	☒

Available Installed   Search Bluetooth Controller

Bluetooth Controller(Arduino Mo...   Bluetooth Controller for Makeblock   **Download**

Add Extension

5 Select the **Bluetooth Controller(Arduino Mode Only)** checkbox. The relevant module of the controller will appear in the **Robots** area.

Extensions

☑ Bluetooth Controller(Arduino Mode Only)

Robots

☑ Makeblock

controller joystick RX ▾
ler button "1" ▾ pressed

6 Start to program the controller. An example is provided for you to download, please visit: http://example.makeblock.com/e001.sb2

Edit

Upload to Arduino

☑ Arduino mode

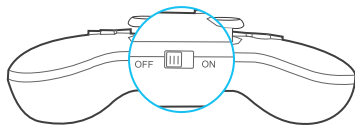Upload the program to your robot after the programming is completed.

B Install 2 AA Batteries (not included)
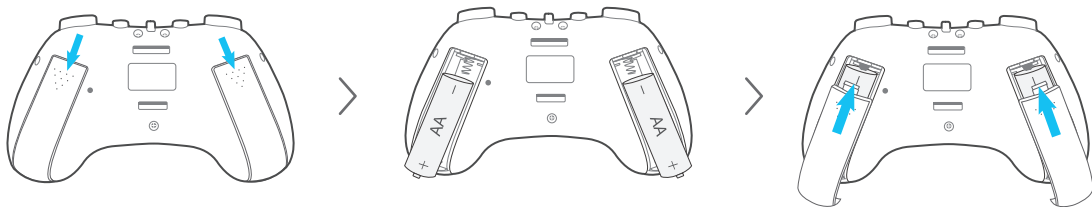
● When the indicator turns solid red, it indicates low battery warning. Please replace the batteries in time.

C Bluetooth Pairing

① Turn on the controller. The indicator flashes blue.

2 Get the controller close to your robot. Long press the ✳ button until the indicator flashes more quickly, then release the button, and the controller will connect to your robot automatically.
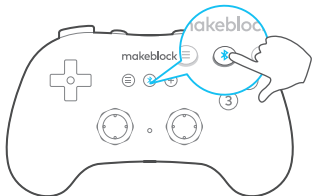
Long press ✳ until the indicator flashes more quickly

The indicator shows solid blue, indicating the pairing is successful.

▶ When the controller maintains disconnected and left unattended for 50 seconds or left unattended for 5 minutes after connected, it enters into a sleep mode automatically. Press any button (except the joystick) to wake the controller.

▶ When the controller is powered on, it will search for the last paired robot and connect to the robot automatically.

Control your robot now!

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

·Reorient or relocate the receiving antenna.

·Increase the separation between the equipment and receiver.

·Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

·Consult the dealer or an experienced radio/TV technician for help.

RF warning statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

DECLARATION OF CONFORMITY

Declaration of conformity Hereby, Makeblock Co., Ltd., declares that this product is in compliance with the essential requirements and other relevant provisions of Directive RED 2014/53/EU and the RoHS directive 2011/65/EU

Specification

Frequency range: 2402-2480MHz

RF transmit power: 4dBm

Bluetooth version: BT4.0

Maximum controlling distance: 20 meters