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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MAKER WORKS TECHNOLOGY INC

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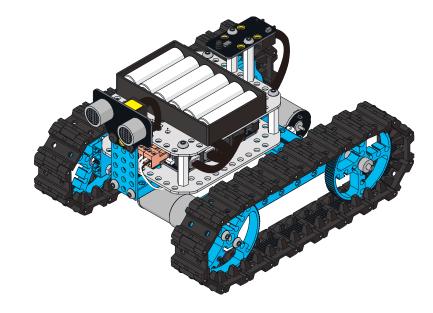


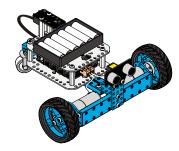




Starter Robot Kit IR Version

Robot Tank Three-Wheeled Robot Car





Quick Guide Warning: Keep this kit out of the reach of small children or animals. Small parts may cause choking or serious injury if swallowed.

Makeblock Starter Robot Kit contains mechanical parts and electronic modules for you to start exploring the robot world which can be used to build a robot tank or a three-wheel robot car. It is also a great tool to learn mBlock and Scratch programming.

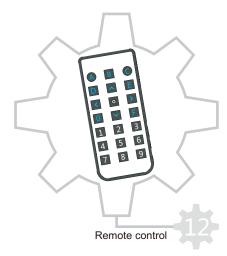


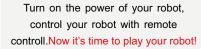
Check all components in parts list, please contact Makeblock or the distributor if any component lacked.

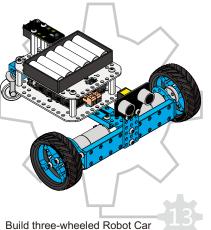
Follow our manual to build the Robot Tank.

Do wiring. Install batteries for your robot and remote control.







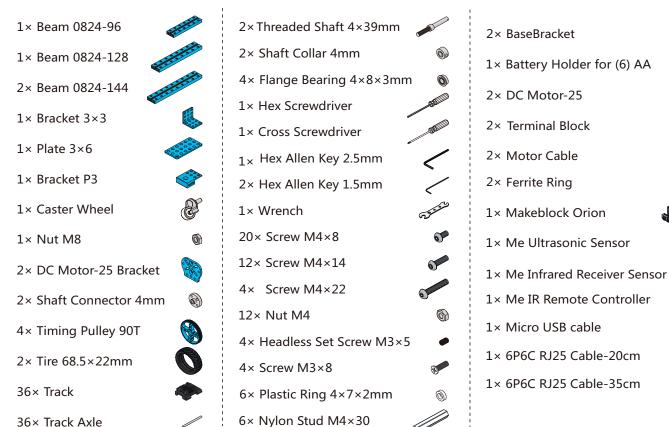


Programming Guide--Further exploration

Try another style: Follow our manual to build the Three-wheeled Robot Car.

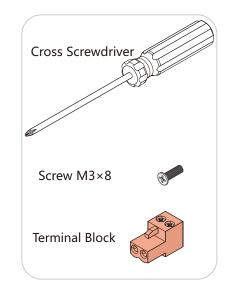
Advanced player can re-program to the robot by mBlock or Arduino to explore the wonderful robotic world.

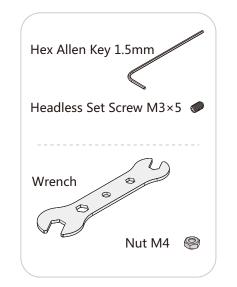
Parts List Pictures for reference only



Tool Tips

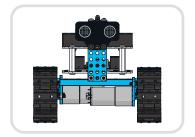


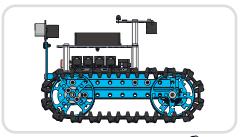


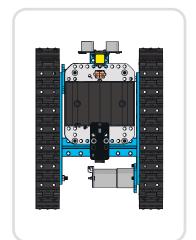


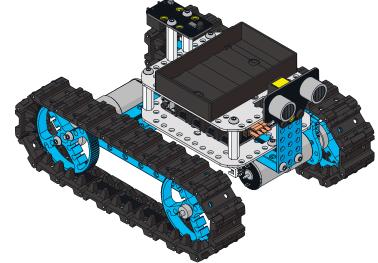


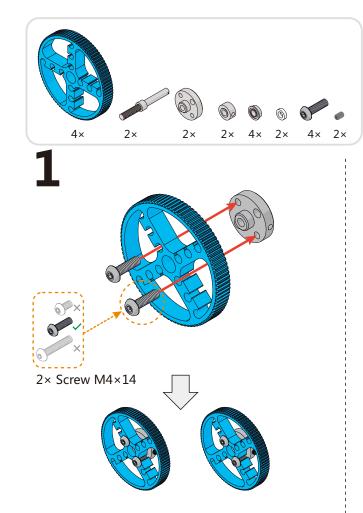
Build the Robot Tank

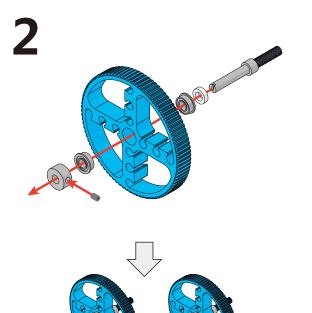




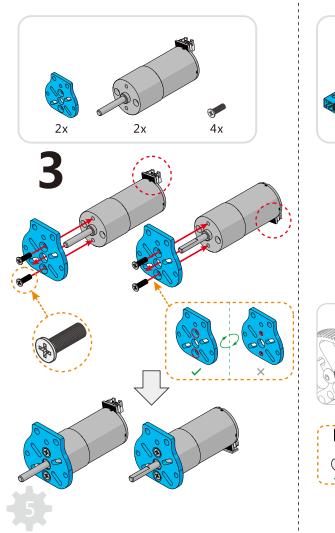


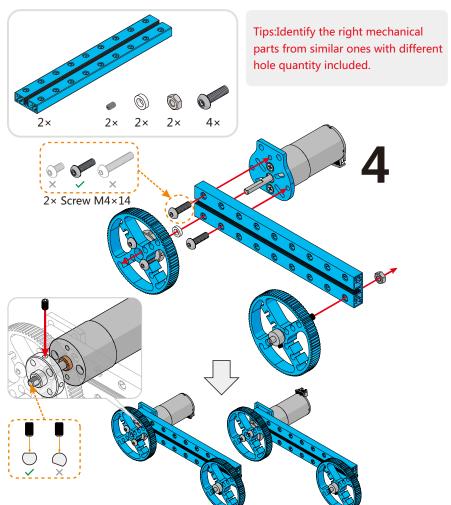


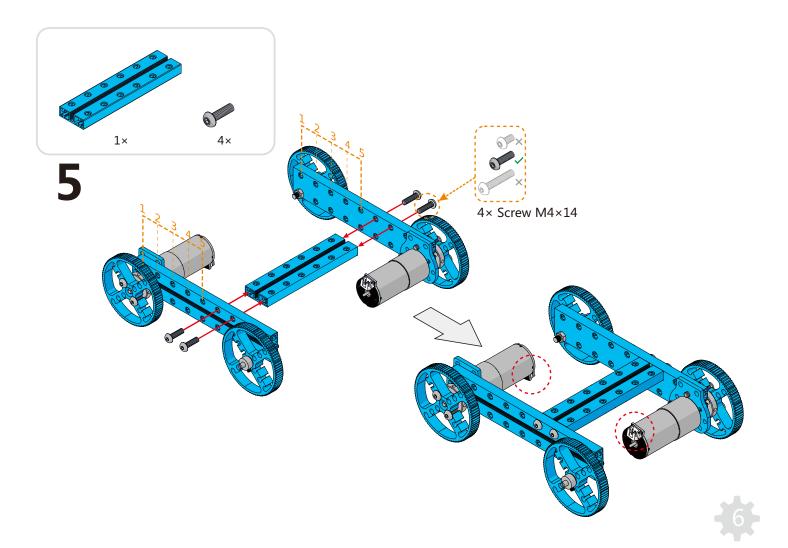




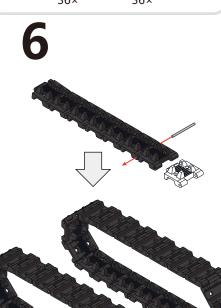


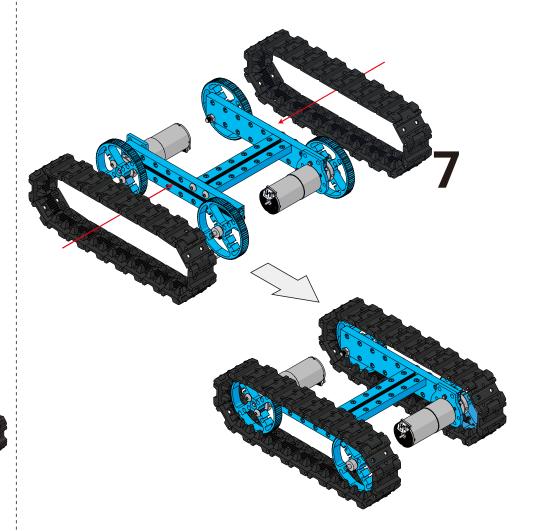


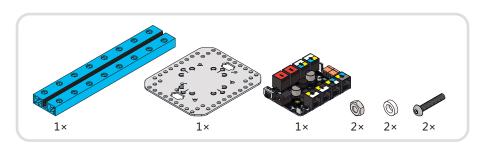


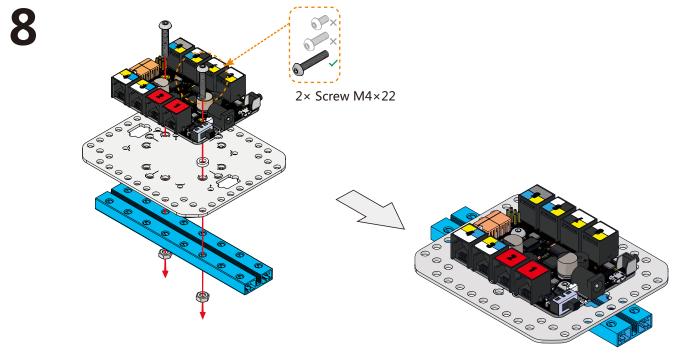


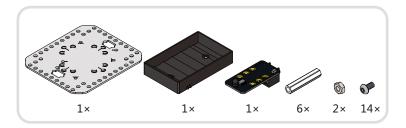


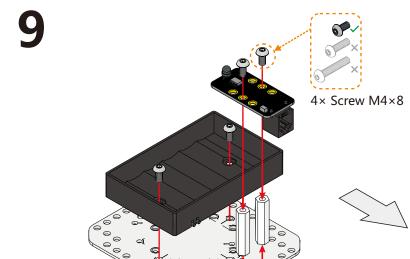


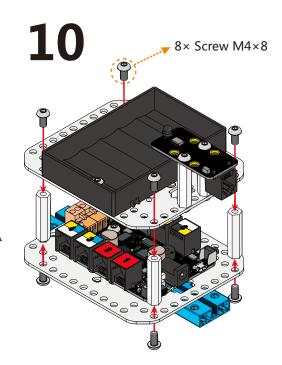


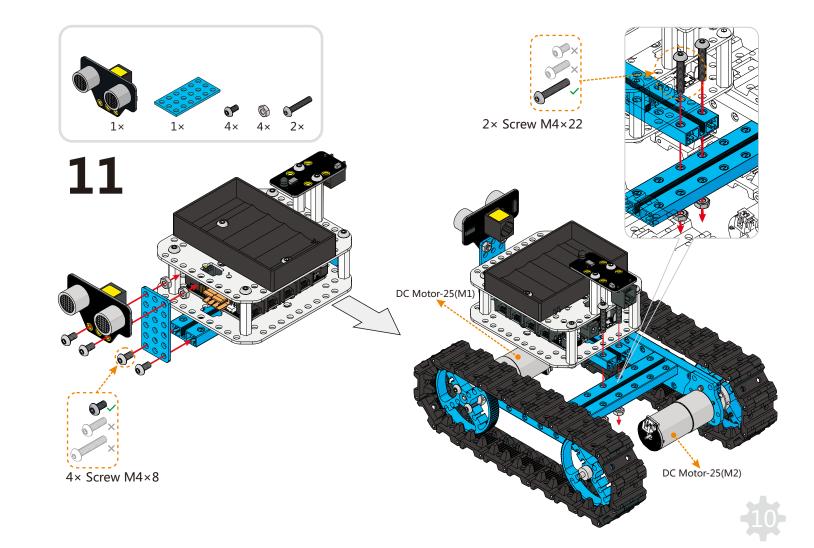








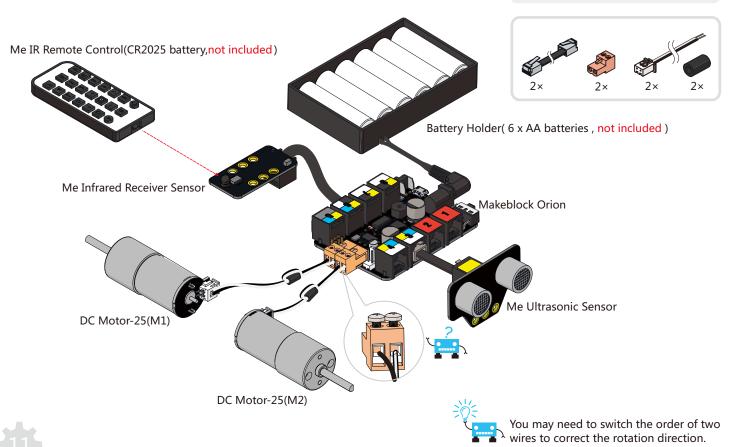




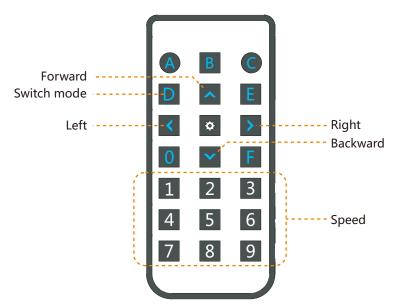


Wiring

To reduce the electromagnetic interference, please add ferrite ring for the wires which connected to motors.







Remote control : Press key D to switch modes

Manual mode :

Press direction keys for car direction and number keys for speed.

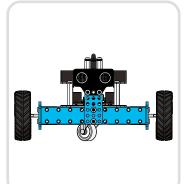
Ultrasonic obstacle avoidance mode:

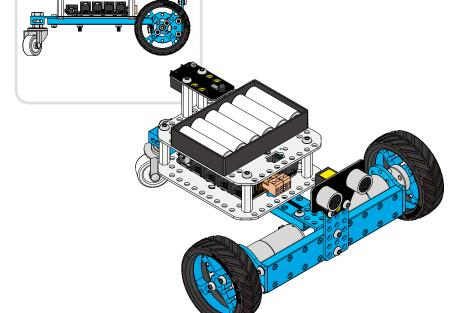
The car will run and avoid obstacle automatically. No response when press any keys until you switch mode.

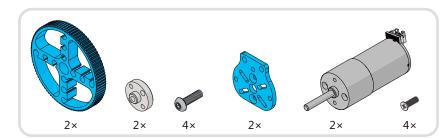
Now it's time to play your robot!

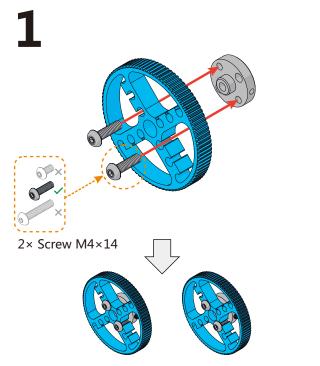


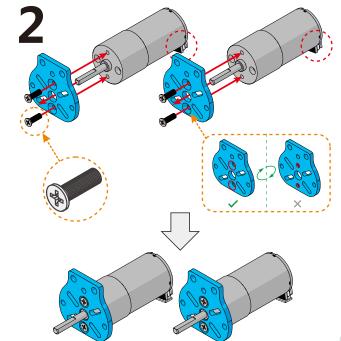
Build three-wheeled Robot Car



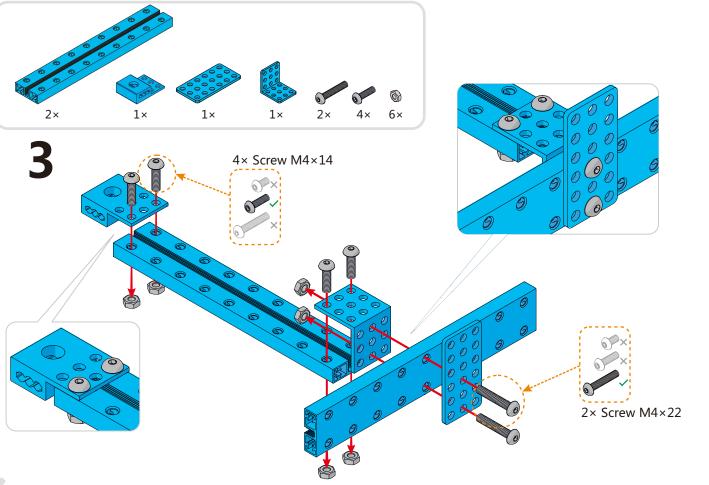




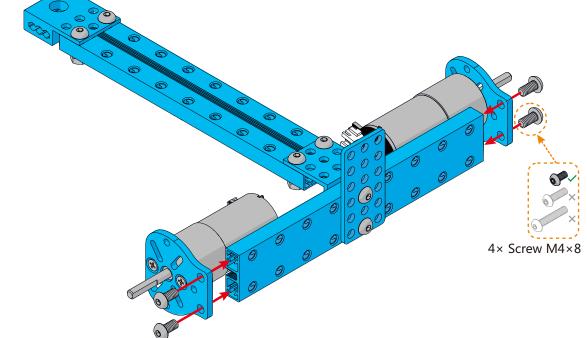




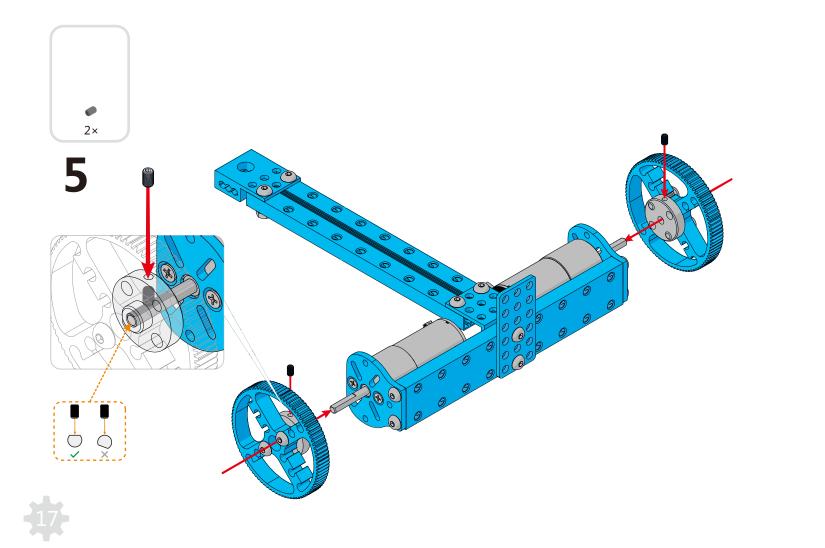








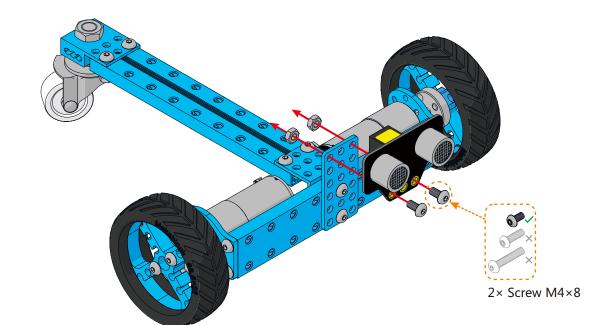


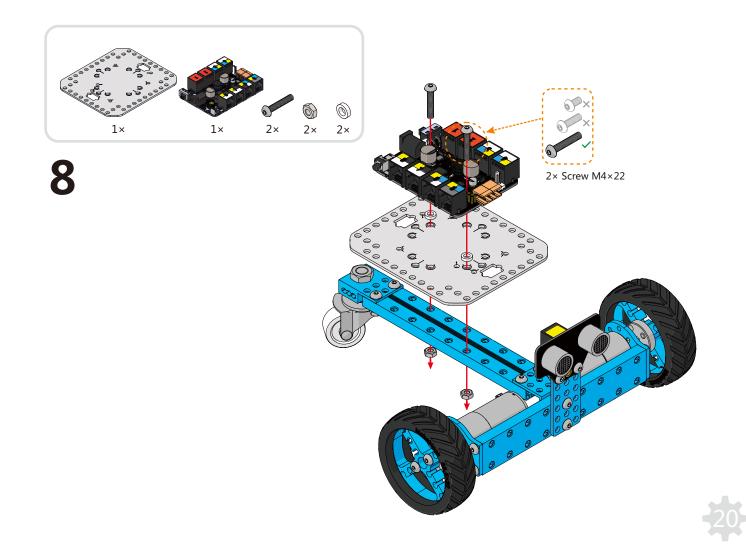




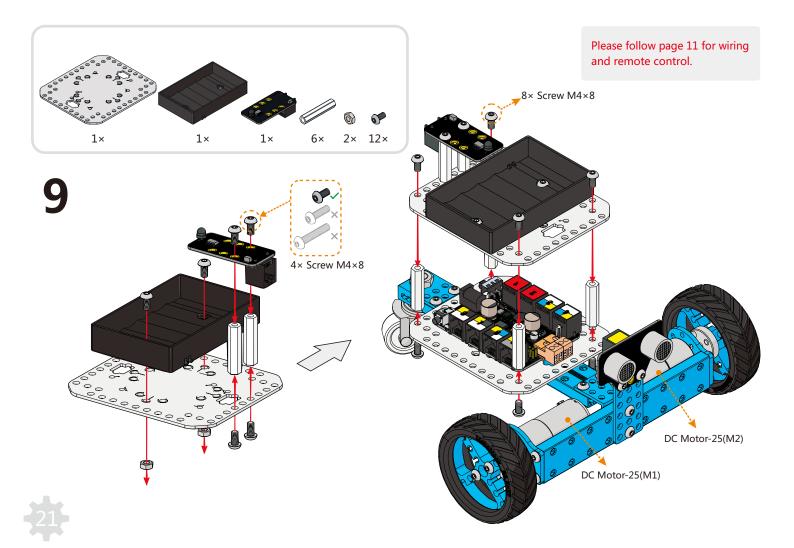






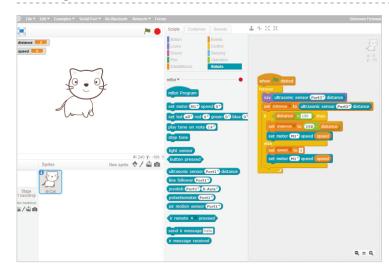






Programming--Further exploration

Working with mBlock--Hack the Physical World



The Starter Robot Kit support mBlock perfectly which allow you reprogramming your robot by simply drag and joint the blocks of mBlock. No more difficult coding.

mBlock is a free modified version of Scratch 2.0 developed by MIT Media Lab, mBlock add some hardware-related blocks in the original Scratch, with these blocks, users can read sensors, control motors and even a whole robot.

Besides blocks for the basic microcontroller functionalities, analog and digital writes and reads, PWM outputs. There are also blocks for each specific electronic modules, such as ultrasonic sensor, temperature sensor, light sensor, DC motor driver, stepper driver, etc. With these blocks, it's simple to interact with many kinds of electronic modules.

Visit the following URL for more details: http://learn.makeblock.cc/learning-scratch

Working with Arduino IDE --Learn Programming the Fun Way

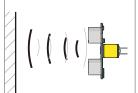
Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. The Arduino software consists of a development environment (IDE) and the core libraries. The IDE is written in Java and based on the Processing development environment.

Visit the following URL for more details: http://learn.makeblock.cc/learning-Arduino
Download the library zip package: https://github.com/Makeblock-official/Makeblock-Library/archive/master.zip

Electronic modules on makeblock--Further exploration



Ultrasonic module works for measuring distance from 3cm to 400cm.











Me Joystick is normally used to control the move direcion of object.

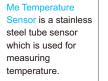




Me Sound Sensor can measure the volume.It can used in some sound interactive projects, such as an voice operated











Me PIR Motion
Sensor can detect
infrared ray which
derives from
animals/humans in
less than 6 meters.



see more on makeblock platform

Kits on Makeblock--Further exploration

