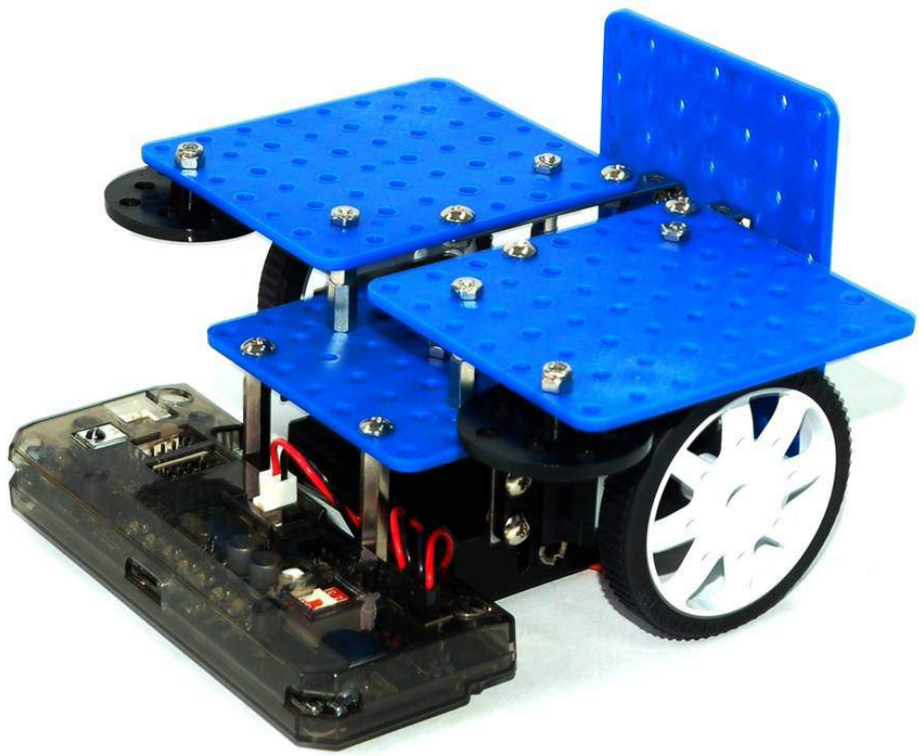
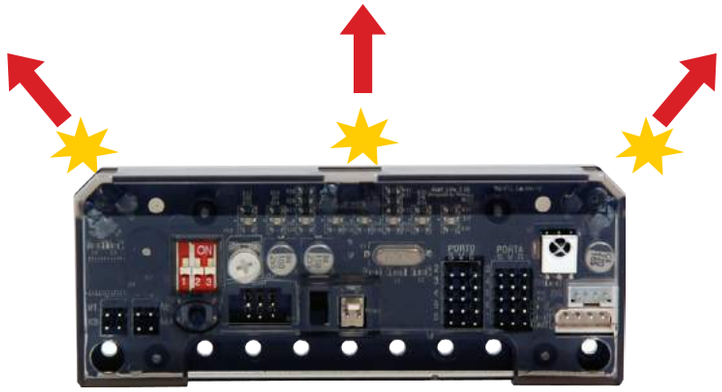
1. Obstacle Avoidance Robot



Introduction and how it works

The Obstacle Avoidance Robot detects surrounding obstacles and moves to avoid them. While the robot is moving, three infrared light sensors on the front check whether or the not the robot has encountered an obstacle.

Detecting from three different directions.

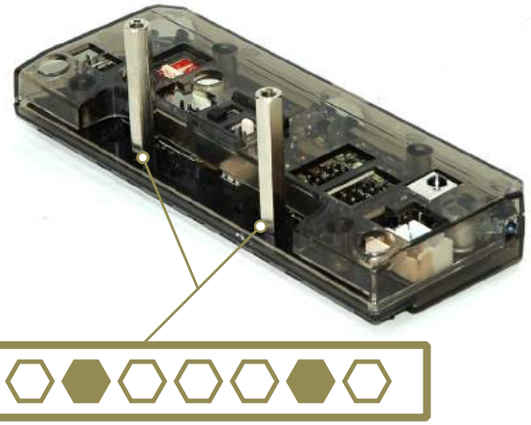


Following its object avoidance program, this robot can escape from a maze.

1

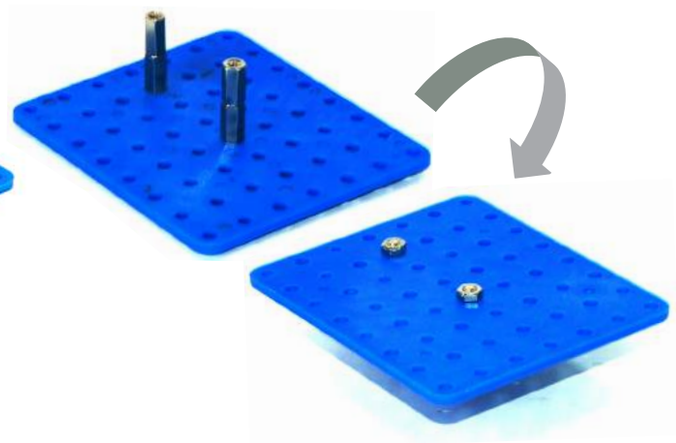
X 8 X 8

2



X 2

3



X 2

4

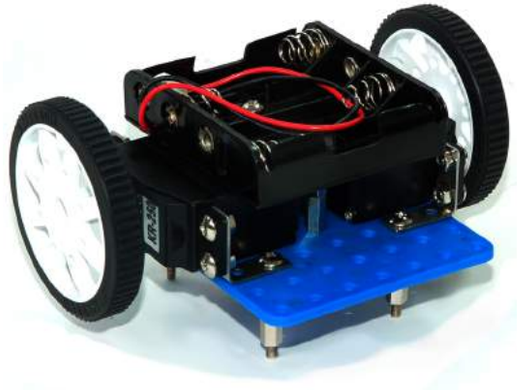
X 4

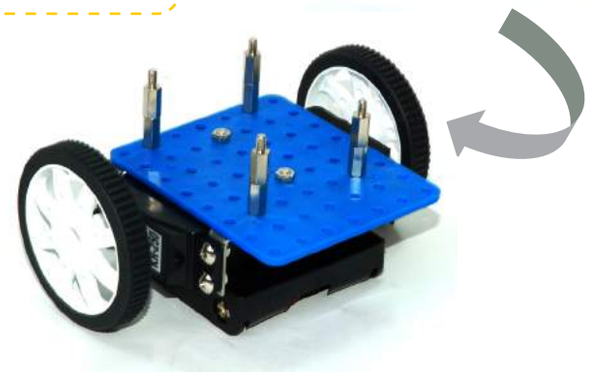
5

X 2

6

X 2





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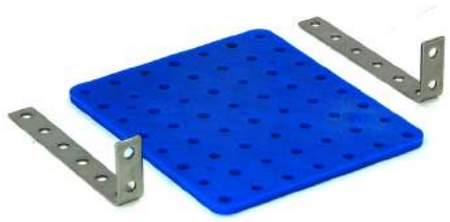


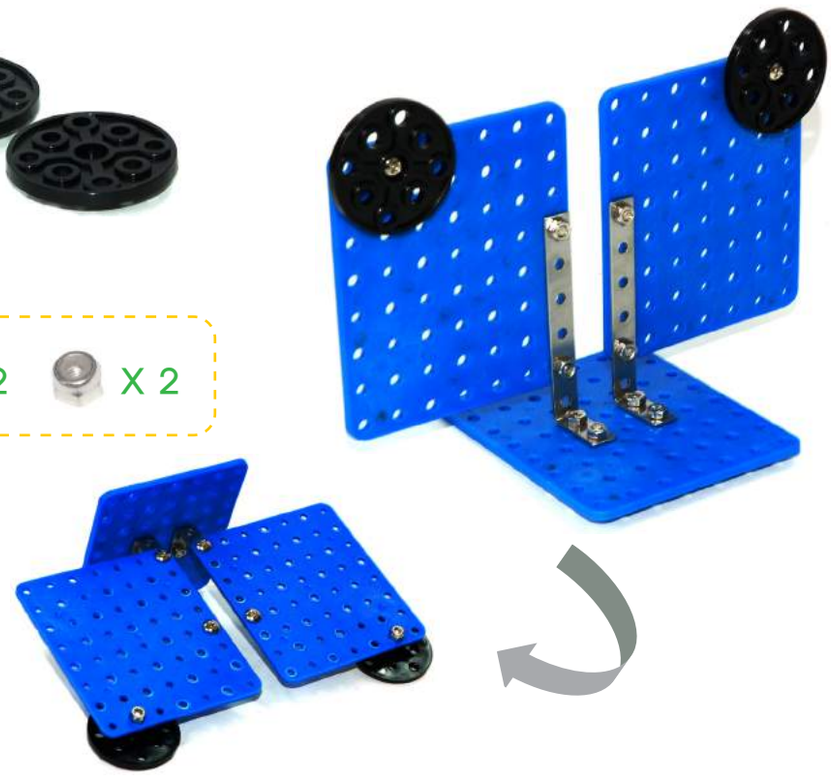
X 4 X 4

8

X 4 X 4

9

X 2 X 2



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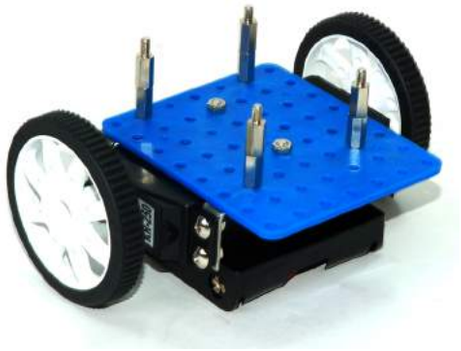
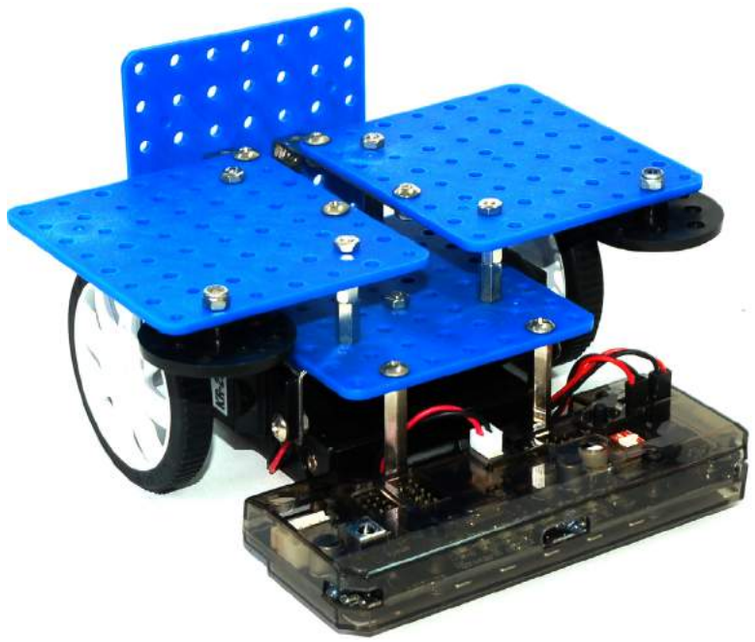
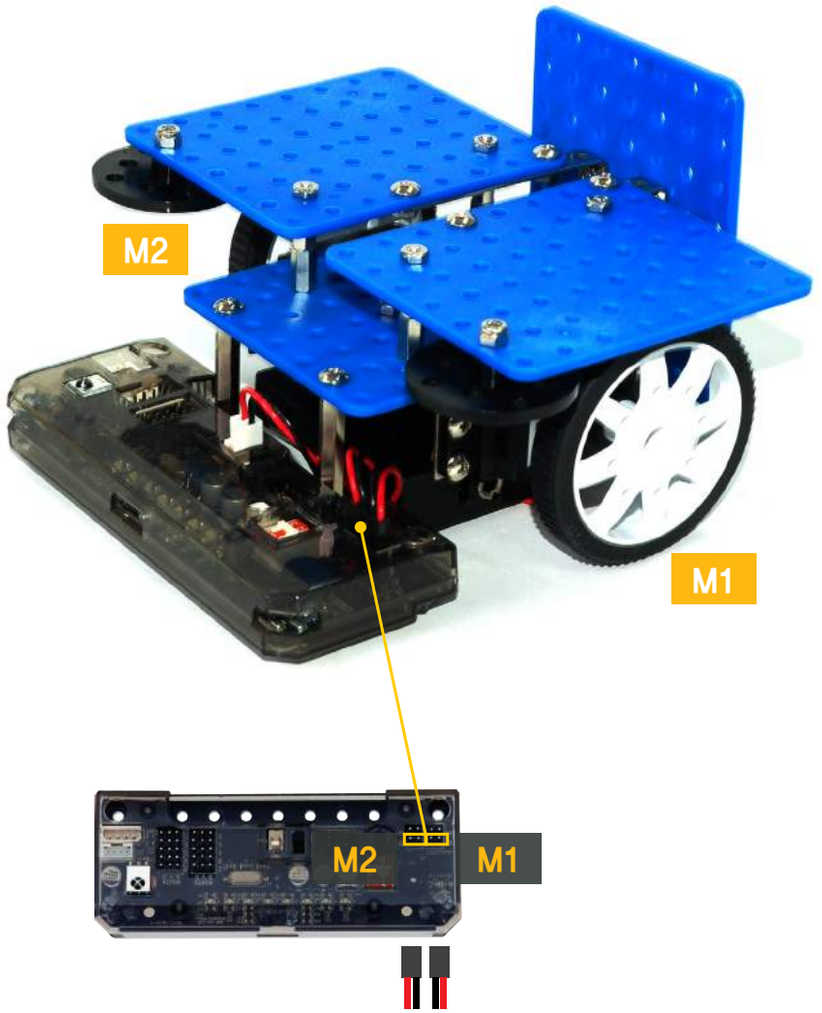


X 2

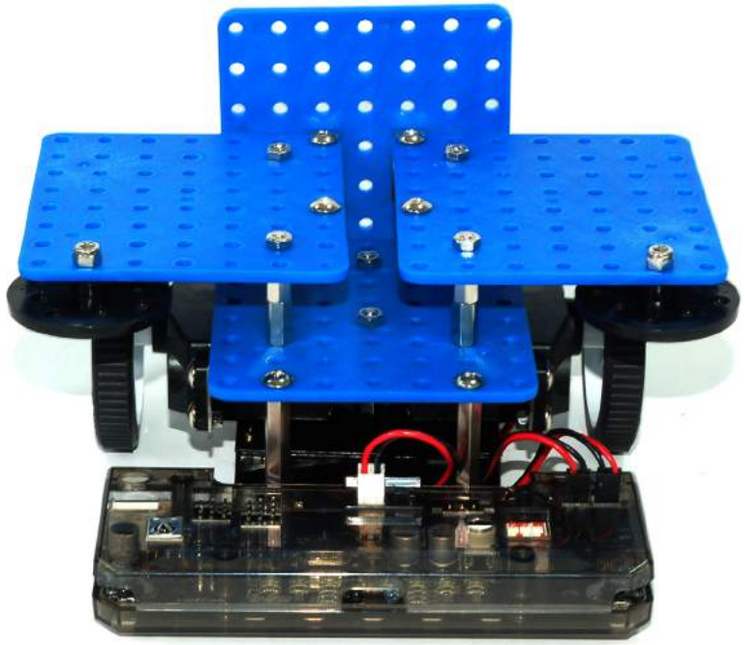
X 4



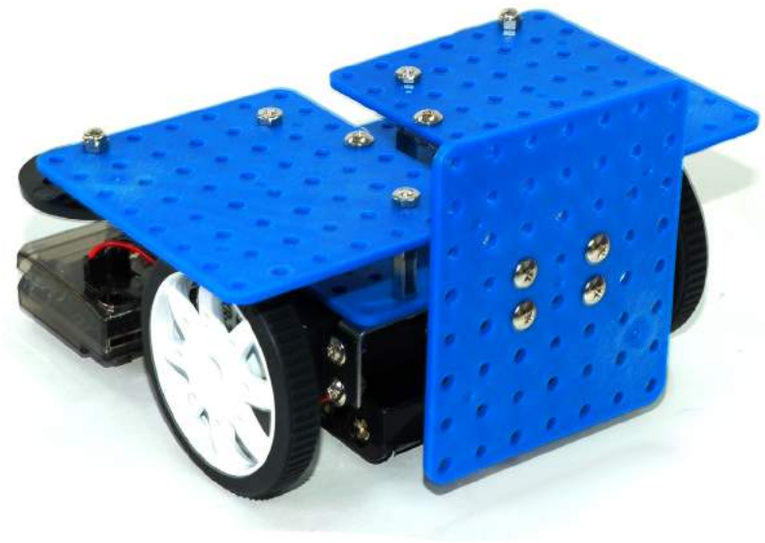
completion



Front view

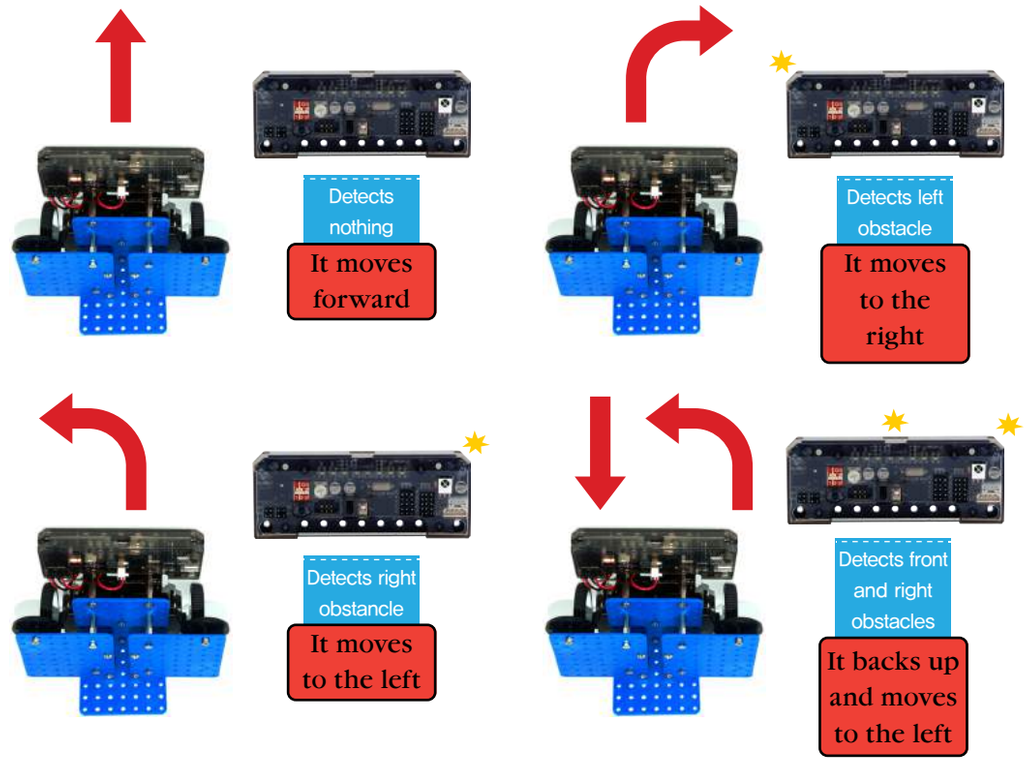


Back view



Acting Module

Obstacle Avoidance Robot uses program mode 1 to operate.



Obstacle Avoidance Robot avoids walls obstacles by 3 infrared sensors that are facing different directions.

Play the game!

– Escaping the maze game (Free Driving Game)

1. Make the maze by using boxes, books, or any surrounding objects.

2. Make a starting point, and an end point. See if the robot can escape from the maze.