

1. Obstacle Avoidance Robot

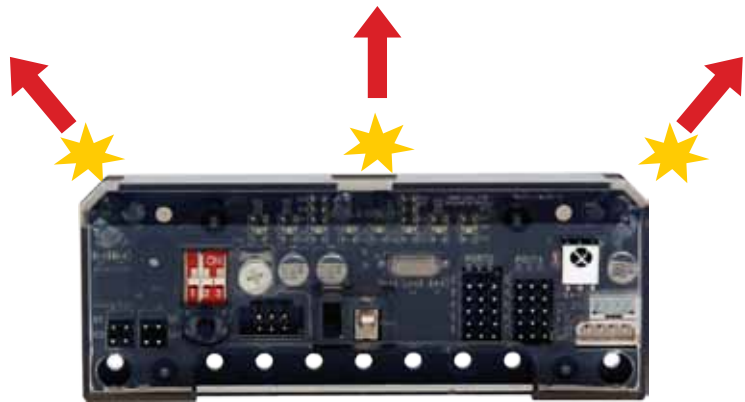


Introduction and how it works



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

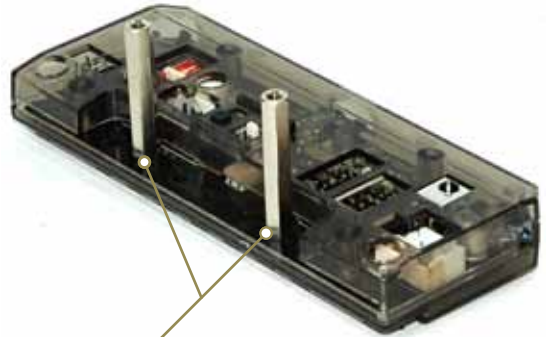


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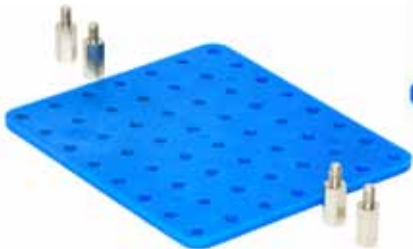
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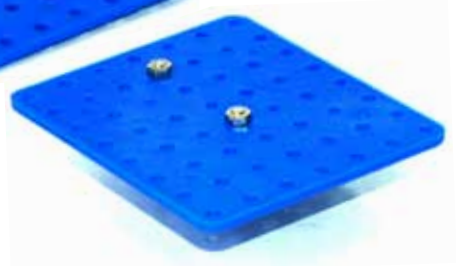
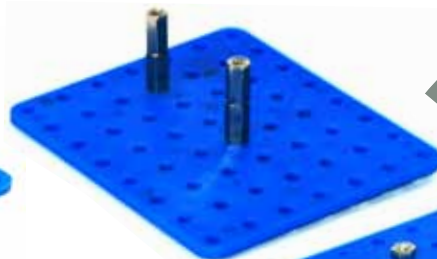
X 2



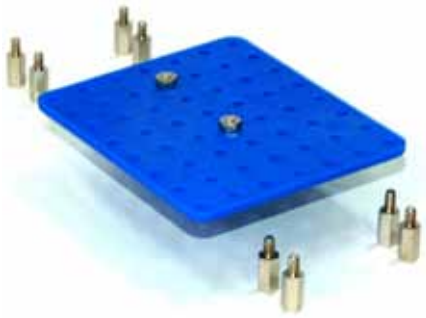
3



X 2



4



+



X 4



5



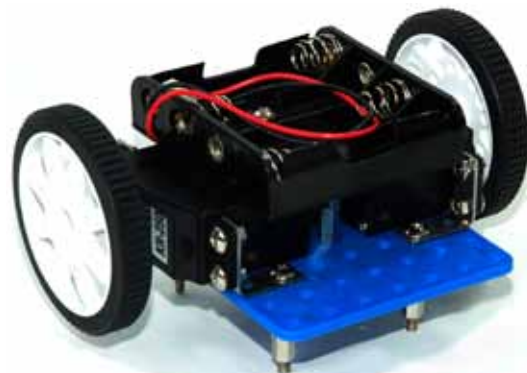
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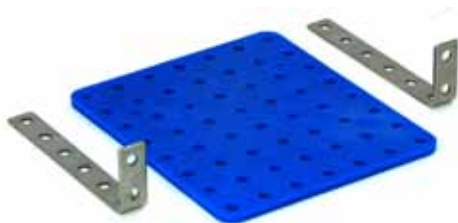
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X 2



7



X 4



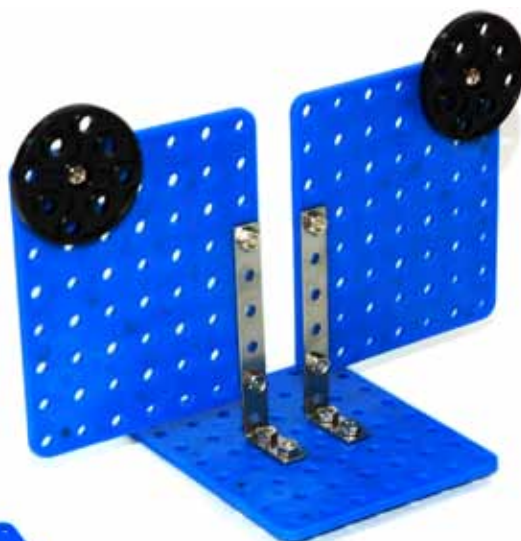
X 4



8



9

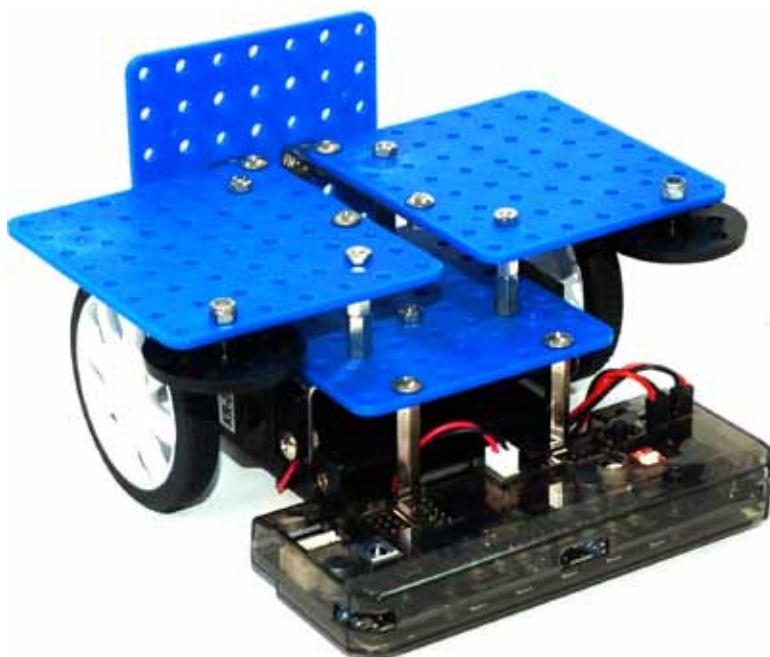


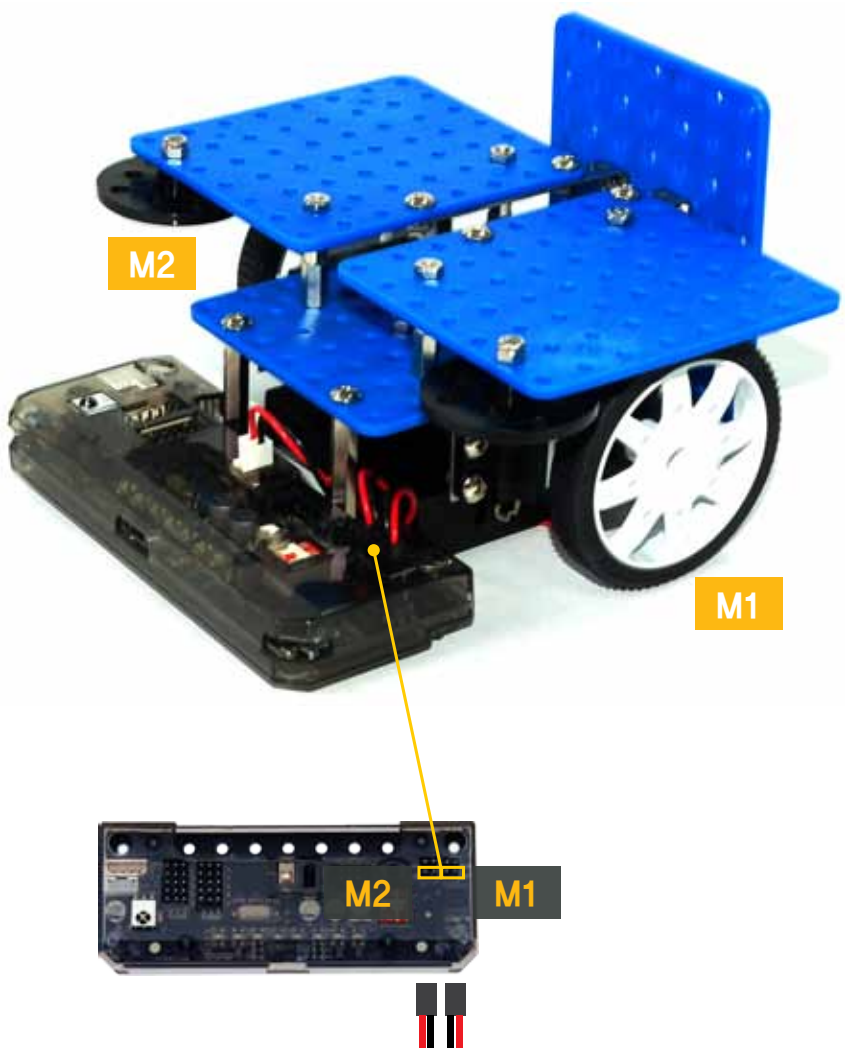


X 2

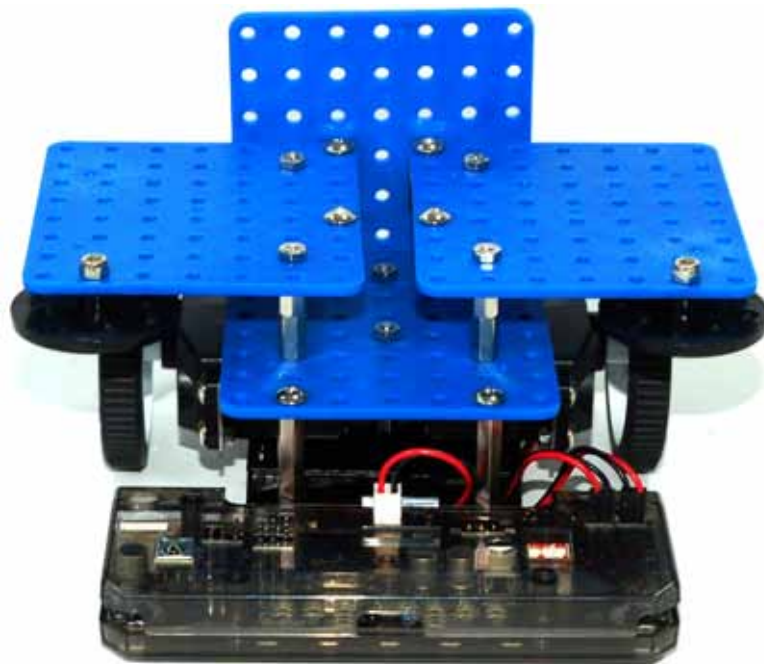


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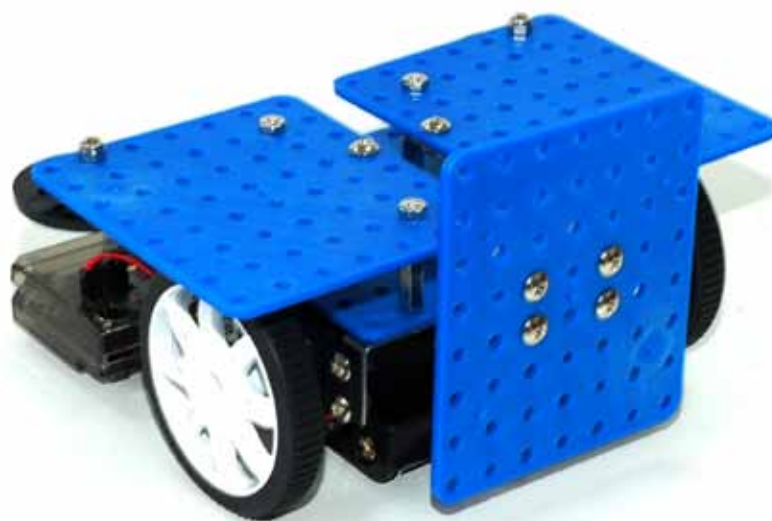




Front view



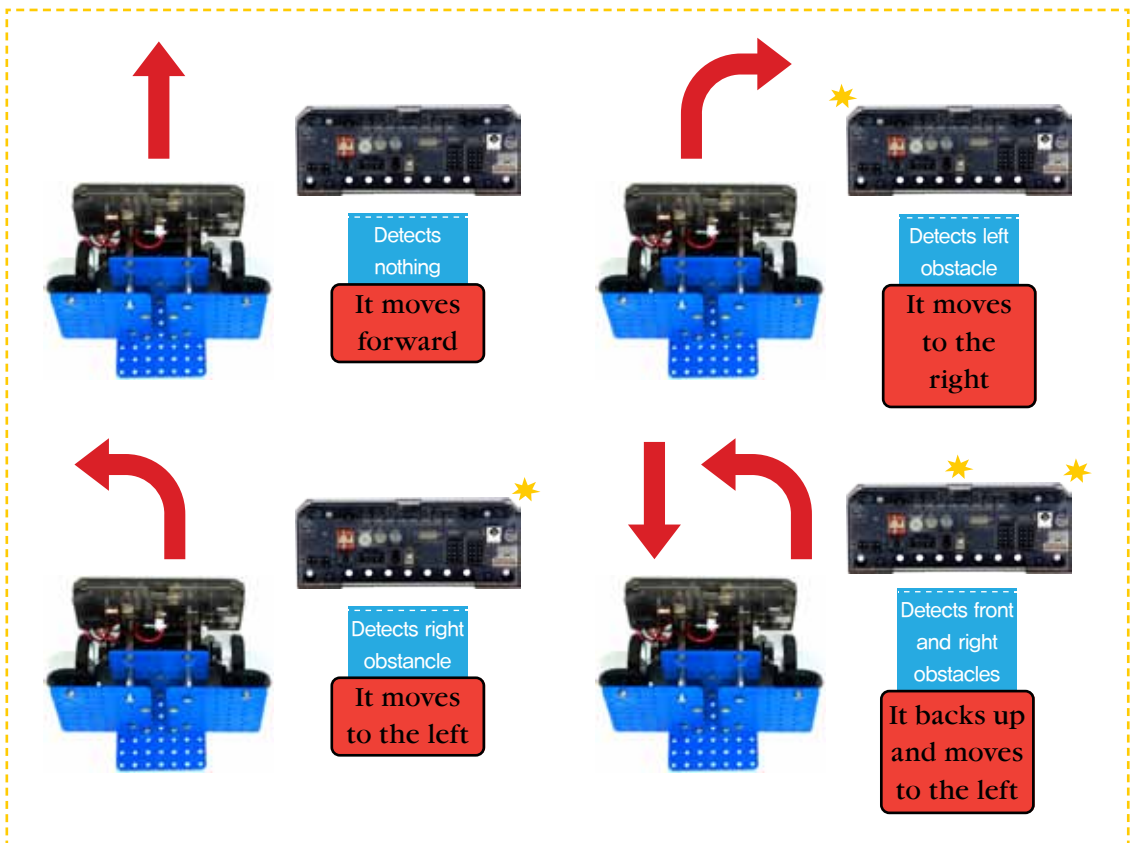
Back view



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.