

Qobo

Programmable Interactive STEM Robot

Model #: HBQ-MSF



Qobo is a STEM educational programming and interactive robot for children between three to eight years old. Its card-based programming architecture and game tutorial not only enlightens children, but also exercises their logical thinking and hands-on abilities. Qobo is easy to use, intuitive and entertaining – keeping children engaged in learning.

Parts Included:



- 1 Qobo
- 1 USB Charging Cable
- 1 Map
- **30 Programming Cards**
- 1 User Manual



What happens when you shake the robot? (Qobo is equipped with a built-in gyro position sensor)

Specifications

Port: Micro USB Port
Operating Temperature: 14° - 104°F
Operating Voltage: 3V - 4.1V
Operating Current: 300 mA
Battery: 1,000 mAh

Dimensions: 3.7" x 2.95" x 2.4"

Weight: 0.35 lbs. Warranty: 1 Year

Battery and Charging

Qobo can run for up to three hours when fully charged. To charge:

- 1. Connect robot to a computer via USB charging cable and charge for two hours.
- 2. Connect to a mobile phone adapter via USB charging cable and charge for two hours.

Note: The output of the phone adapter used must be 5V. If you use a 9V or 12V adapter, Qobo may be damaged.

Note: When the battery is low, Qobo prompts you to charge it in a timely manner. A red light flashes when charging, and a green light goes on when charging is complete.



Free Mode Card

Enables Free mode and begins to store further card instructions



Game Mode Card

Enables Game mode and moves one step forward



Destination Card

The robot stops, and the program ends



Forward Card

Moves one step forward in the current



Right Turn Card

Turns right T 90 degrees clockwise, then moves one step forward



Left Turn Card

Turns right 90 degrees counterclockwise, then moves d one step forward.



Police Car Card

Repeatedly sounds a siren, then moves one step forward



Train Card

Repeatedly sounds a train whistle, then moves one step forward



Dancing Card A

Sings while dancing, then moves one step forward



Dancing Card B

Sings while dancing, then moves one step forward



Red Light Card

Sets the lighting effect to red, then moves one step forward



Orange Light Card

Sets the lighting effect to orange, then moves one step forward



Yellow Light Card

Sets lighting effect to yellow, then moves one step forward



Green Light Card

Sets lighting effect to green, then moves one step forward



Indigo Light Card

Sets lighting effect to indigo, then moves one step forward



Blue Light Card

Sets lighting effect to blue, then moves one step forward



Violet Light Card

Sets lighting effect to violet, then moves one step forward



River Card

Because Qobo is drowned when passing the River Card, the robot has to elude this card



Apple Card

Picks up an apple, moves one step forward. Then, turns right if it sees a Condition Card; if not, will run normally.



Banana Card

Picks up a banana, then moves one step forward. Then, turns left if it sees va Condition Card; if not, will run normally. tu



Condition Card

ne If picked up an apple, It turns right 90°, then moves one step forward; if picked up a banana, turns left 90°, then moves one step forward



Random Card

Randomly picks up apple (or banana), then noves one step forward (similar to Apple Banana Cards). With an apple, it turns right 90° (or if a banana, it turns Jeft 90°) at the Condition Card.



Touch Card

Stops and waits for user to touch its face. After action is triggered, it moves one step forward.



Help-to-Move Card

Stops and waits for user to pick it up and skip one step. After action is triggered, moves one step forward.



Loop 3 Times Card

Used in conjunction with the End Loop Card. When used, the code between both cards repeat three times. Only supported in Free mode.



Loop 6 Times Card

Used in conjunction with the End Loop Card. When used, the code between both cards repeat six times. Only supported in Free mode.



End Loop Card

Used in conjunction with the Loop 3 times and Loop 6 times cards. Only supported in Free mode.

GAME MODE



Press the button on the bottom of the Qobo for a few seconds to power it up.



the cards together.



Place the robot at the starting position.



Press the start button.



There is a ruby hidden at the bottom of the Great Wall. Using only the Forward Card, reach the desination and get the gem.





Answer (for reference):







There is a ruby hidden to the left of the Great Wall. Using only the Forward and Right Turn Cards, reach the desination and get the gem.





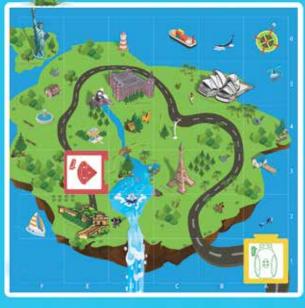








Good news! There is another ruby hidden on top of the Great Wall. Using only the Left Turn, Right Turn and Forward Cards, advance and quickly find the gem.





Answer (for reference):







Bad news! The river has submerged the bottom of the Great Wall, but the gem is hidden just to the lower left of the Great Wall.

Because the robot is drowned, when passing the River Card, the robot has to elude this card.





Answer (for reference):

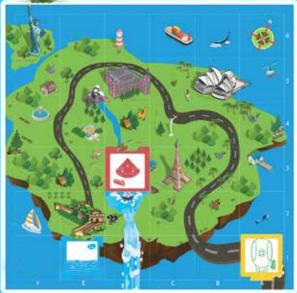






News is that a thief has stolen the gem to the left of the Eiffel Tower. Qobo is required to catch using the police car.

The Police Car Card can turn Qobo into a police car.









Answer (for reference):







Good news! There is a special gem to the left of the Eiffel Tower. You must perform a dance before you can find the gem.





Answer (for reference):



What color did you get at the destination?





It is rumored there is a colorful gem to the right of the Sydney Opera House. You must successfully light the red, green and blue lights before you can open the door and find the gem.*



*The three primary colors of lights are red, blue and green. By using these cards, you change the color of the light. When completed, the robot will make new colors according to principles of color-mixing.

TIP Use the cards below to complete this mission Green Light Card Red Light Card Blue Light Card Game Mode Card Destination Card

Answer (for reference):



What color did you get at the destination?





I have a secret to tell you. To the upper right of the Sydney Opera House is a ruby. You must light up the red, orange, yellow, green, indigo, blue and violet colors to make a rainbow, before you can open the door and find the gem.





Answer (for reference):



What color did you get at the destination?





Part of the road to Sydney Opera House is submerged by the river. You must use your wisdom and activate the rainbow light to find the gem!



TIPS

River Card: Because the robot is drowned when passing the river card, the robot has to elude this card.

Please use these cards below to complete the mission.







een Light Card Yellow Light Card C







Violet Light C

et Light Card Root

d Indigo Light Can







Blue Light (

1200

All Sections



Descript/Cont A

Answer (for reference):









There is a choice of colors in front of the Elizabeth Tower. You must make the correct choice before you can find the gem.





Answer (for reference):



What would happen if you were using the Banana Card?







I will take away your apple and banana Lesson 11 cards. Use your luck (i.e. random card) to find the gam





The robot randomly picks up a banana or an apple; then moves one step forward (a similar function as the Apple/Banana Card).











Answer (for reference):







The next stop, the Statue of Liberty, is surrounded by rivers – so you would drown by directly crossing the river. Therefore, use the special skill card "Help to Move" for help.





The robot has a built-in position sensor, which can sense changes to its position.

Please use these cards below to complete the mission.





Help-to-move Card

Right Turn Card





Forward Card

Left Turn Gard

Answer (for reference):







Challenge yourself to visit five global attractions at one time, and reach the final destination at the Statue of Liberty (requires you use the touch card midway).



TIPS

Touch Card: Touch the face of the robot after this card is recognized. Principle analysis: The robot has a built-in touch sensor, which can sense human touches.

Please use these cards below to complete the mission.





Touch Card

Right Turn Card





Forward Ca

Left Turn Card

Answer (for reference):







Use your luck (the Random Card) to try and find the gem.





Answer (for reference):









Now, you will see how to move without the cards. This is called Free Mode, where you can move freely without cards.



Loop 3 Times Card





















Challenge yourself with a more difficult program in Free Mode.



Loop 6 Times Card

























For 2 Players

Rules:

- 1. The goal is to avoid river obstacles from the starting point, to the destination to find gems.
- There are two roles. One is the instructor (or parent), who is
 responsible for setting the start and destination card for the kids, as
 well as the river barrier. One is the task executor (kids), using cards
 to achieve goals.

FAOs

- Q: How many Lego blocks are supported by Qobo?
- A. About a dozen Lego small building blocks can be used, as long as the weight is not too heavy for Qobo.
- Q: Qobo does not power on.
- A: Please check that the battery is fully charged.
- Q. Qobo is moving slowly when turning.
- A. Make sure there is no dirt or fibers stuck on Qobo's wheels.

Warranty

Warranty begins the date item ships from our warehouse. All products have a one year warranty from original date of shipment, unless otherwise noted.

Product Registration Instructions

Visit: www.HamiltonBuhl.com

- 1. Click on Customer Care
- 2. Click on Product Registration Form
- 3. Please fill out all fields marked with * to register your product







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Hamilton Buhl®

80 Little Falls Road, Fairfield, NJ 07004 Phone: 1-800-631-0868 • Fax: 1-800-398-1812 sales@hamiltonbuhl.com

www.HamiltonBuhl.com