

## Qu-Bot Details



Qu-Bot is a Quickly Programmable Robot. Qu-Bot is specially designed for beginners in robotics and for all kind of robotics enthusiasts, starting from small kids to adults. The Qu-Bot visual interface software allows the robot to be programmed easily and quickly.

The Qu-Bot Robot Kit is a very easy to assemble, programmable robotic kit that comes complete with a variety of sensors, motors, controller board, remote control, visual icon based software QBVLab, battery, charger, manual. Virtually everything you need to build, code, program and execute the program. This product is geared towards classroom and group instruction of fundamentals of robotics.

The Qu-Bot Robot kit connects to the PC via USB cable (included) and is programmable through an easy-to-use QBVLab drag and drop modular icon based software program. After the program sequences have been uploaded into the robot via USB, it can be controlled by remote control or can behave according to the user defined parameters.

The Qu-Bot runs on Li-ion battery and offers hours of endless educational entertainment. Also the battery can be recharged by USB or charger included in the kit. This is an entry level product that requires no programming or robotics experience. A great practical tool for hands-on in the field of robotics.

Qu-Bot has ATmega16 as a brain. Advanced users can use this robot as AVR Based robot and reprogram the microcontroller as they want. Qu-Bot is completely hackable and used for variety of purposes. In short Qu-Bot offers lots of features and functionalities at a very affordable price.

**Qu-Bot Salient features:**

1. Easy and simple to use
2. No soldering or gluing required
3. Made for complete beginners (No knowledge of Robotics or Programming needed)
4. Develop skills of microelectronics, programming, robotics and sensors
5. Assembles in 10minutes – easy and quick start into robotics, no soldering or gluing required
6. Virtually all items included. Nothing needs to be bought seperately. Eg. Tools, battery, charger, remote, USB Cable etc.
7. USB connectivity for maximum compatibility with all PC's and Laptops
8. Easy Icon-based visual programming for beginners – sample programs included
9. Onboard li-ion rechargeable battery which can run Qu-Bot for more than 3 hours.
10. Battery charged through USB or special charger

**Qu-Bot can simply turned for following operations**

1. Line Follower Robot
2. Wall Hugger Robot
3. Object Tracer Robot
4. Light Tracer Robot
5. Hand Hugger Robot
6. Obstacle Avoider Robot
7. Intelligent Grid Mover Robot
8. Remote Controlled Robot
9. PC USB Controlled Robot
10. Maze Solver Robot
11. Sumo Robot

**Qu-Bot Package Includes:**

1. 1X Fully Assembled Main Circuit board with all above features
2. 1X Li-ion Rechargeable Battery 3.7V, 1.4Ah with protection circuit
3. 2X Geared DC motors
4. 2X Mounting Clamps for motor
5. 2X Wheels
6. 1X Castor
7. 1X USB Cable
8. 1X Remote Control
9. 1X Battery Charger Adaptor
10. 1X CD with all software and documentation
11. 1X Printed Manual
12. All screws, nuts and cable ties

**Input Modules Onboard:**

1. 3X Proximity Sensors
2. 3X Line Follower Sensors
3. 2X Motor Counter Sensors
4. 1X Remote Control Receiver Sensor
5. 1X Ambient Light Sensor
6. 3X General Purpose Switches

**Output Modules Onboard:**

1. 1X 16X2 Character LCD
2. 3X General Purpose LED's
3. 2X Motors & Motor Drivers
4. 1X Buzzer
5. 1X USB TX & RX

**Other Board Features:**

1. 1X Power Indication LED
2. 1X Charge Indication LED
3. 1X 4 Way Sensor Selection Switch
4. 8X Sensor State Indication LED's
5. 1X Reset Switch
6. 1X Power On/Off Switch
7. 1X DC Input Jack

**Tools Required assembling Qu-Bot:**

1. Screw driver
2. Pliers or spanner

Visit the Qu-bot catalog at

[www.technogravity.com/education/workshop/workshop\\_catalog.php](http://www.technogravity.com/education/workshop/workshop_catalog.php)

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**Techno Gravity Solutions is an Official Training partner for Qu-bot**

[www.technogravity.com](http://www.technogravity.com)

Mumbai, India.

Contact us for any relevant information.