TURTLEBOT™
PERSONAL ROBOTICS PLATFORM

WORLD CLASS RESEARCH IN AN OPEN SOURCE HOBBY PLATFORM.

POWERFUL STARTER KIT OUT-OF-THE-BOX.

An open-source SDK based on ROS integrates all the software you need to get TurtleBot running and comes with built-in advanced capabilities like mapping and navigation to help you develop applications right out of the box.

BUILT ON OPEN-SOURCE AND COMMUNITY.

Thanks to the creativity and support of the ROS community, there are thousands of software packages for robotics you can use with Turtlebot. Tap into powerful computer vision libraries like OpenCV and PCL, find drivers for add-ons, and test advanced research algorithms.

INcredible price and performance.

TurtleBot comes with powerful lowcost hardware to give you a capable, autonomous platform for developing robot applications. Yujin’s Kobuki, Xtion, netbook, and gyro are all seamlessly integrated to provide amazing capabilities for an incredibly affordable price.

A FEW OF THE INNOVATIVE FIRMS WHO USE OUR ROBOTS

Available for purchase online: store.clearpathrobotics.com, or call us at: 1-800-301-3863
TECHNICAL SPECIFICATIONS

MOBILE BASE and POWER BOARD
Platform: Yujin Kobuki
Battery: Up to 4400 mAh Ni-Ion
User Power: 5 V and 19 V at 1 A
12 V at 1.5 A
12 V at 5 A

TURTLEBOT HARDWARE
Mechanical: Mounting Hardware
TurtleBot Structure
Module Plate with 1 inch Spacing Hole Pattern
Electrical: Modified Kinect Cable for Kobuki power access.

ON-BOARD 3D SENSING
Sensor: ASUS Xtion PRO
Specs: 640x480 @ 30 frames/sec
Range: 0.8m - 3.5m
Gyro: 110 degrees/second Factory Calibrated

ON-BOARD NETBOOK
Processors: Intel Core i3-4010U
Memory: 4 GB
Internal HDD: 500 GB
Connectivity: USB 2.0, USB 3.0, WiFi, Ethernet, VGA, HDMI, SD card

SAMPLE APPLICATIONS

MULTI-ROBOT SYSTEMS
The low-cost Turtlebot is designed with the scalable open-source ROS architecture making it an ideal platform for testing and developing complex multi-robot systems on a tight budget.

PERCEPTION & NAVIGATION
Advanced autonomous navigation using Simultaneous Localization and Mapping (SLAM) software packages are freely available to integrate with your Turtlebot.

MOBILE MANIPULATION
Turtlebot can easily interface with a low-cost 4-DOF hobby manipulator for tele-operated or autonomous manipulation tasks.

TELE-OPERATION
Turtlebot comes ready for tele-operation out-of-the-box. Plug in your favourite wireless joystick and get started driving your Turtlebot in minutes.

CONTACT US FOR MORE INFORMATION

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