TURTLEBOT PERSONAL ROBOTICS PLATFORM



WORLD CLASS RESEARCH IN AN OPEN SOURCE HOBBY PLATFORM.

DEVELOPED IN PARTNERSHIP WITH:





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















TECHNICAL SPECIFICATIONS



TOP

SIDE

FRONT







MOBILE BASE and POWER BOARD

Platform: Yujin Kobuki

Up to 4400 mAh Ni-Ion Batterv: 5 V and 19 V at 1 A User Power:

> 12 V at 1.5 A 12 V at 5 A

ON-BOARD 3D SENSING

Sensor: ASUS Xtion PRO

640x480 @ 30 frames/sec Specs:

Range: 0.8m - 3.5m

Gyro: 110 degrees/second Factory Calibrated

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 NETBOOK

Intel Core i3-4010U Processors:

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

scalable open-source ROS

ideal platform for testing and

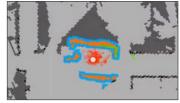
architecture making it an

developing complex multi-

is designed with the

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-thebox. Plug in your favourite wireless joystick and get started driving your Turtlebot in minutes.

CONTACT US FOR MORE INFORMATION

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