

Kobuki

Kobuki is an mobile base for open-source research and development purposes. It can be used to quickly and cheaply build research platforms and also provides access to other open source software, including ROS. The result is a product that can very easily utilise existing 3d sensing technologies and navigation algorithms to develop applications for research.

High Quality Platform

Motors, battery, base
Various power sources
Multi-OS software drivers
High resolution odometry
Affordable

WHAT

General purpose research platform
A component in multi-robot systems

WHO

Student / Professor
Researcher
ROS beginner
Hobbyist

Motors

Battery

Various Power Sources

Multi-platform

High Resolution Odometry

Low Price



Kobuki Spec

Max Speed	700 mm/sec 180 deg/sec
Odometry	3 axis built in gyrometer High resolution wheel encode (11.7 ticks/mm)
Battery	Lithium ion 4S1P (2200 mAh) 4S2P (4400 mAh) (Low Price/effective battery system)
Power source	5V, 12V, 3.3V
Charging	Robot and Laptop contemporary charge
Firmware upgrade	Supportable
Standard Kit (Base + Battery + Adapter)	world wide distribution

Wide community

Web Site <http://kobuki.yujinrobot.com>
Github <https://github.com/yujinrobot/kobuki>
Twitter <https://twitter.com/yujinrobotrnd>
Blog <http://blog.yujinrobot.com>
Ros Wiki <http://ros.org/wiki/kobuki>

Turtlebot-2

Kobuki based Research Platform



Software Ecosystem

OpenNI framework
OpenCV & PCL
Navigation stack
Perception & manipulation
Paired Android-robot apps
Gazebo simulation
ROS

Wide community

Web Site	http://turtlebot.com
Github	https://github.com/turtlebot
Ros Wiki	http://ros.org/wiki/turtlebot
Ros Answers	http://answers.ros.org
Google +	https://plus.google.com/101989863972881638653/posts

Partners

Willow Garage	http://www.willowgarage.com/
Clearpath	http://www.clearpathrobotics.com/
IHeartEngineering	http://store.iheartengineering.com/
Robotnik	http://www.robotnik.es/en/



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Robotnik