

Check These Web sites:

Using slam_gmapping, you can create a 2-D occupancy grid map (like a building floorplan) from laser and pose data collected by a mobile robot.

<http://wiki.ros.org/gmapping>

Testing Kinect from learn.turtlebot.com <http://learn.turtlebot.com/2015/02/01/8/>

Depth Sensors Comparison

http://docs.ipisoft.com/Depth_Sensors_Comparison

<http://wiki.ros.org/turtlebot/Tutorials>

Particularly view : 4.1 Looking Around

1. Visualisation

Find and call launchers to visualise the turtle and its data streams.

2. 3D Visualisation

Visualising 3d and camera data from the kinect/asus.

Navigation 4.3

1. SLAM Map Building with TurtleBot

How to generate a map using gmapping

2. Autonomous Navigation of a Known Map with TurtleBot

This tutorial describes how to use the TurtleBot with a previously known map.