



To remotely control the KUKA YouBot via the Leap Motion sensor. Control of the YouBot base as well as the YouBot arm and gripper will be done by hand gestures. There is scope of tremendous new activities which can be done through this amazing device (Leap Motion Controller). Leap Motion controller is a small USB peripheral device which is designed to be placed on a physical desktop, facing upward. Using two monochromatic IR cameras and three infrared LEDs, the device observes a roughly hemispherical area, to a distance of about 1 meter (3.28084 feet). The LEDs generate pattern-less IR light and the cameras generate almost 300 frames per second of reflected data, which is then sent through a USB cable to the host computer, where it is analyzed by the Leap Motion controller software.

## YouBot Control Using Leap Motion Sensor