## Potential hardware

### Microsoft Kinect 2 Sensor

* 30Hz 1080p color camera
* 30Hz IR camera
* Body tracking with 25 joint API
* Body tracking is stable within 4.5m of the sensor
* 8m of depth can be sensed for regular objects
* The new Kinect has a depth image resolution of 512 x 424 pixels with a fov of 70.6 x 60 degrees resulting in an average of about 7 x 7 pixels per degree. (see source 2)
* The new Kinect has color image resolution of 1920 x 1080 pixels and a fov of 84.1 x 53.8 resulting in an average of about 22 x 20 pixels per degree. (see source 2)
* Requires an adapter for use
* 99.99 + 39.99 USD for sensor and adapter, SDK is free
  + Sensor is currently out of stock on MS website

Citations:

<http://smeenk.com/kinect-field-of-view-comparison/>

<https://social.msdn.microsoft.com/Forums/en-US/c95d3e40-6ed6-47a1-a206-5ff26c889c29/kinect-v2-maximum-range?forum=kinectv2sdk>

<https://developer.microsoft.com/en-us/windows/kinect/hardware>