

Types of Depth camera's & alternatives for position tracking

At HKU we have most of these camera's available. Inform about the possibilities at the Blackbox



kinect 360

Kinect on Mac

Kinect on Pc



Kinect One

Kinect on Mac

Kinect on Pc



Kinect Azure

Kinect on Mac

Kinect on Pc



Realsense



**Orbec Astra
plugin for Touchdesigner**



zed 2i

Camera for depth perception, motion and AI, the ZED 2i is a durable and versatile stereo camera that can be deployed in most environments. (also outside!)

Zed in Touchdesigner



Orbec Femto Bolt & Mega



Oak D Lite

Spatial AI camera (open source) OAK stands for OpenCV AI Kit. PC & Mac compatible, python setup necessary! For loan @ Blackbox

[Touchdesigner setup](#)

[Data sheet or datasheet](#)



Leap motion 1



Leap motion 2



Hokuyo

The URG-04LX-UG01 scanning laser rangefinder is a low power, small, accurate, high-speed device for obstacle detection. Using the USB interface for power and communication, this unit can obtain measurement data in a 240° field of view up to a distance of 4 meters.

download driver (link)

<https://www.hokuyo-aut.jp/products/data.php?id=2>

Touchdesigner has a chop for it, the Hokuyo will work when connected, in mac

Some comparison articles:

<https://www.generationrobots.com/blog/en/luxonis-vs-realsense-which-depth-camera-should-i-choose/>

https://docs.ipisoft.com/Depth_Sensors_Comparison

the 3 kinects compared: <https://www.mdpi.com/1424-8220/21/2/413>

https://www.youtube.com/embed/KRZWev1N_uw

depth maps compared

https://www.youtube.com/embed/tqb_0xAqm3w

Apps that can do body tracking for your mobile devices

<p>ZIGSimPro an app that turns your phone/tablet into a depth sensor & tracking camera (over OSC)</p>	<p>iKeleton OSC an app that turns your phone into body tracking camera (over OSC) sending X&Y coordinates</p>	<p>Media Pipe* MediaPipe is a cross platform Framework for building machine learning pipelines for processing time-series data like video, audio, etc. Amongst many other possibilities it turns your webcam into a depth/tracking camera.</p>
<p>Mocap: optitrack TBD</p>	<p>Mocap: Vive 2x TBD Vive trackers Vive Ultimate trackers</p>	

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