



Initial Camera List - 09/14/2022 (Frank)

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Raspberry Pi Camera - Frank Dow

<https://www.pishop.ca/product/raspberry-pi-hq-camera/?src=raspberrypi>

This is a high quality camera for the raspberry pi if we are thinking to go along that path and has different lenses also available for purchase if needed.

Teledyne - FLIR

The next possible camera solution is not an RGB visible light sensor. The Teledyne FLIR camera is a Forward Looking Infrared sensor. The main benefit over traditional camera sensors is that the FLIR does not operate in the visible light spectrum; FLIR

measures the infrared rays emitted from an object. Infrared sensing improves the vision in low light conditions but only to objects that may be hotter than their surroundings. In other words, the camera would be good at sensing in the day and in poor weather conditions such as fog, and heavy rain/snowfall but would suffer at night where most objects equalize in temperature.

Omnivision - OX01B40

The final option for cameras is the Omnivision OX01B40. The Omnivision OX01B40 supports several interface options: NTSC analog interface, Digital Video Port and MIPI serial interface. Similarly to the Pi Camera, The 3.0Gbit/s connection speed of MIPI serial interface should be sufficient for the application of image recognition processing. The OX01B40 is also an RGB visible light sensor like the Pi Camera meaning its performance suffers in low-light and poor weather conditions. This fact may be compounded by the 1392 x 976 resolution. The cost of the product is still unknown, awaiting quote.