July 4th 2023

Narrative for GitHub

The prototype is complete and I am satisfied with it, as a prototype. The laser beam will be even three mm wide. This should be okay. Smaller is better but I can live with three millimeters

The move forward seems to be the raspberry pi zero w. not real sure. But the detector is probably made by Sony; there are several. I really need a full sized 35 mm detector. The raspberry pi as a ribbon, like 16 wire plug, suitable for an HDMI input?

I would love to have access to the file just as an array. It must be an array of I and o s Then there would be three overlapping arrays for color. I have no use for color, of course.

I think I may have a “machine vision application”

I went to Home Depot to buy a replacement for the laser I was using. I could not find one and bought a different one, simpler and cheaper. It is essentially a laser pointer but makes a line. It is driven by three button batteries. They are 1.5 volt each. I replaced them with three AAA batteries in series. It seems better. I am putting this little guy right on the magnetic needle. So, it is going on the round adjuster thing and seems just fine. The batteries and switch are separate.

I am actively looking for help, but not expecting much. The idea would be to find a little kit from the raspberry people that would fit the bill. The digital conversions must include some way for the software to talk to the camera. I am thinking that I need a digital conversion and then should be able to make it work; Like fake the inclusion of the camera.

I send out communications like this:

Xxxxxxxxxxxxxxxxxxxxxxx

ophir

I am usually pursuing some weird scientific objective, my latest is tracking of magnetic north. They say it is moving. Is that true? I made a video as an intro to this project;

<https://youtu.be/zvrcrxT9n8o>

How am I going to detect movement of a laser beam. I am trying to detect 17 millimeters a year. Small, but obviously detectable. The more careful the resolution, the better.

An extraordinarily powerful detector would be the “retinae” of a camera. The resolution of the detection would be only limited by the size of the pixel. Which brings us to photography and your expertise. I know this is outside of your sphere, but I am wondering if you know of resources or have ideas.

The camera lens is a problem. The laser beam is maybe as big as three millimeters. A camera lens would not be helpful and a black and whit image would be fine. I would love to have access to a simple array, 640 x 400 for example of zeros and ones. I could sort through them with python.

The image is this: several times a week I would go down to the basement and turn on the laser and take a picture. And then the pictures when blown way up, could very precisely show movement in the laser.

I need a push, any ideas. I really need a full sized 35 mm detector.

This is looking like a deep dive into raspberry pi specifically raspberry pi zero w. A camera makes no contribution. I am not sure about any of it, at this point.

Thank you GitHub people. This is a bit on the edge of your sphere.

John Brigham

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