

Release Candidate

Project Description

The UV Shield device that allows users to see if they are applying enough sunscreen to avoid UV radiation. The device is built with a Raspberry Pi 3 B+ board, a UV camera, a power supply, a case, buttons to power on/off the device, a PCB board, and 8 5mm UV LEDs. Python code is used to operate the hardware of the device, determining the camera settings, and using the GPIO headers of the Pi to drive circuits consisting of the UV LEDs and power buttons.

Below are links to a YouTube video demonstrating the current vertical slices of the project, and a GitHub link to the repository consisting of all our documentation including, code, specifications, and schematics.

YouTube: <https://youtu.be/0KRD3IrioVA>

GitHub: <https://github.com/alexistodd/UVis>

Operating procedures can be found on the main README file for the project.