Camera integration status 08-04-2024 Protozero

Gabriel Botogoske

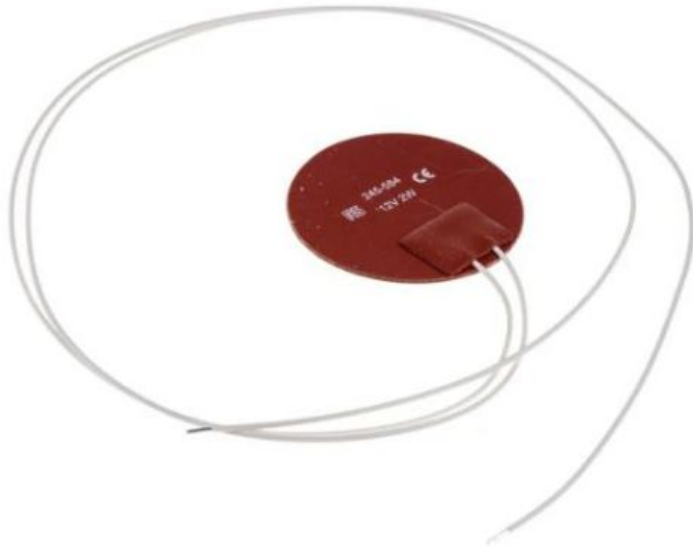# Camera

Model: Camera USB Revotech

Heater

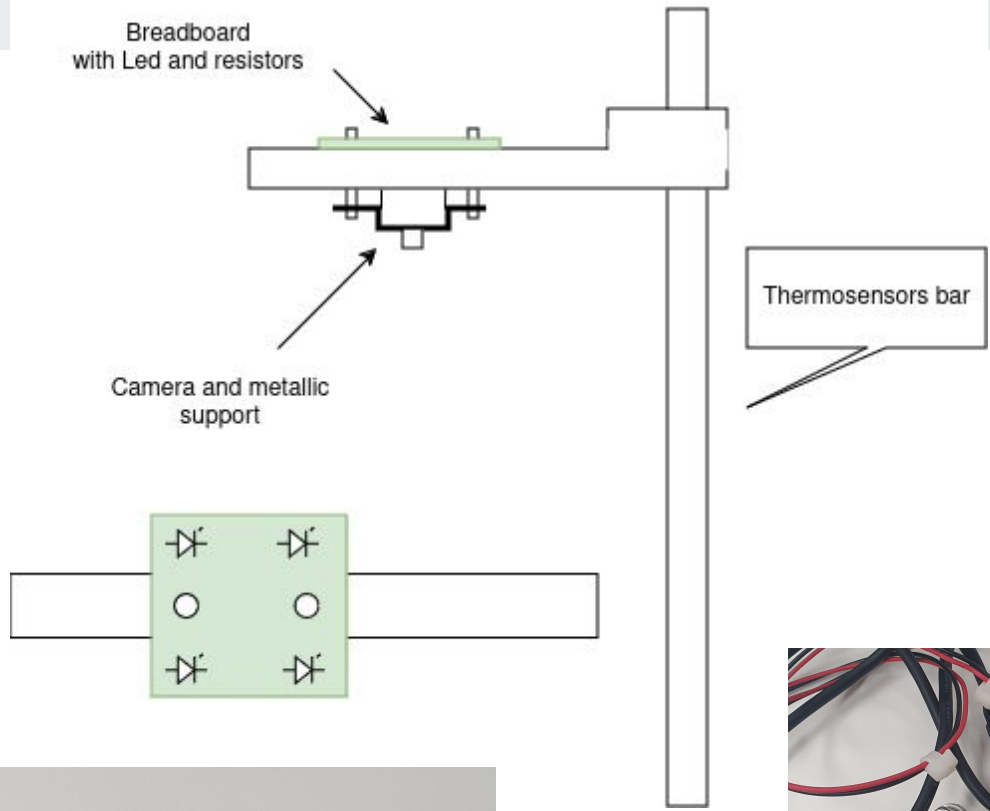Model: 245-584(12V and 2W) from RS.

Peak temperature: 300 C

Mechanics

- 4 Leds, but only one voltage supply (2 cables)
- More two cable for the heater
- Camera cable

Breadboard with Led and resistors

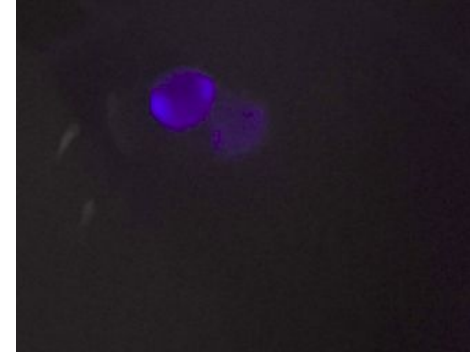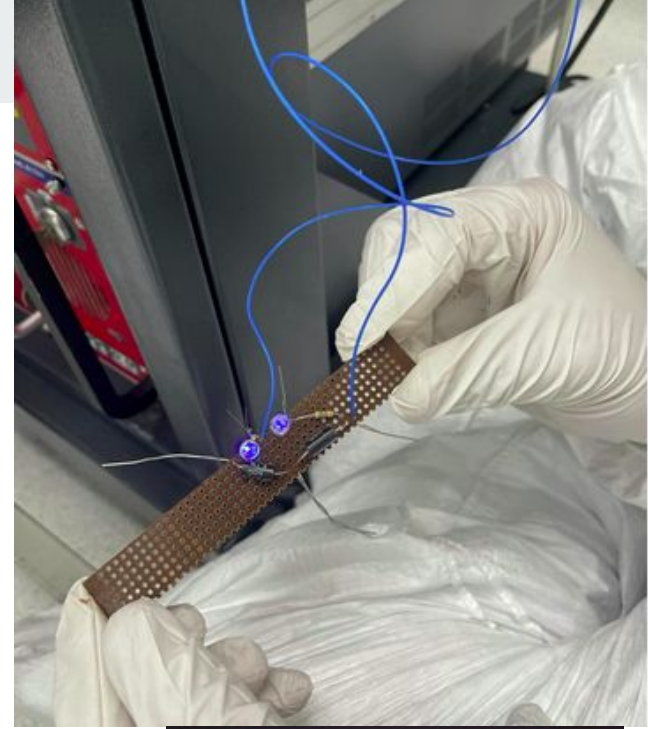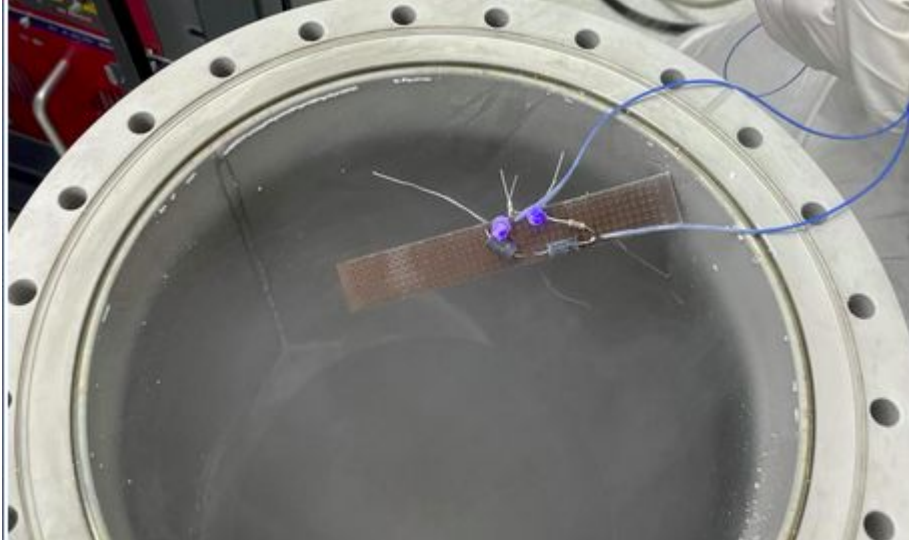Camera and metallic support

Thermosensors bar

LED and cryogenic test

Two blue LEDS (3,2V) and two different set of resistors

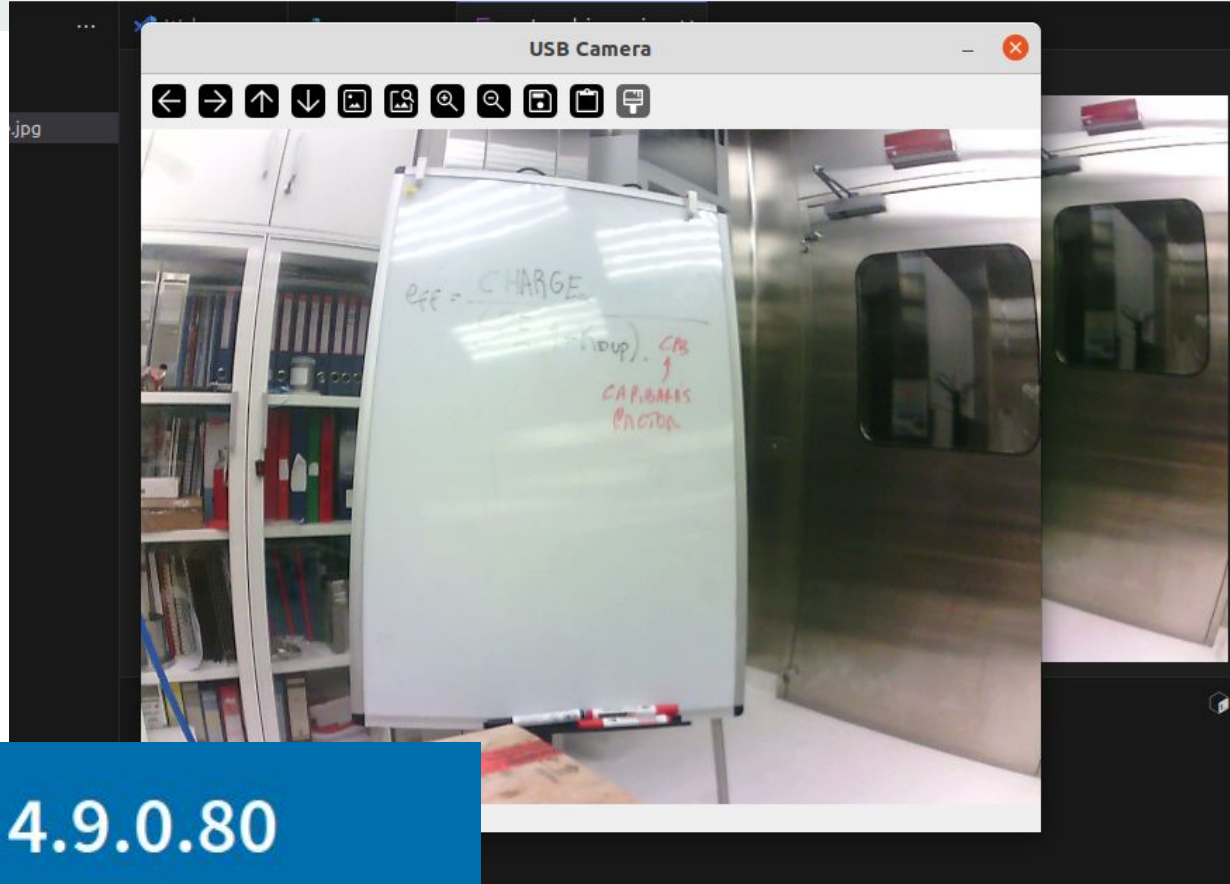-1 metallic film resistor of 150 ohm

-2 resistor in series of 50 ohms

Cold test

- Submerged test turned off

- Submerged test turned on (to see light, voltage= 7V)

- Above but near the interface liquid-gas

- Long submerged test turned off (3 hours)

Software

import cv2
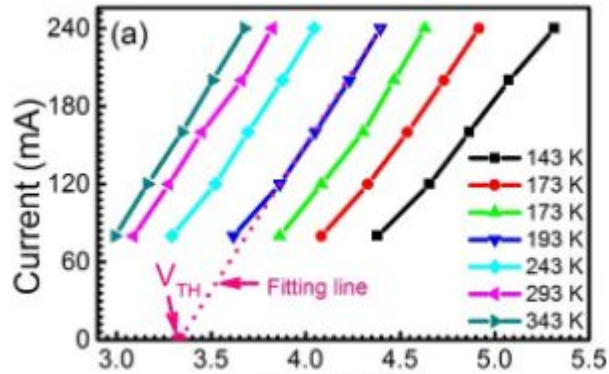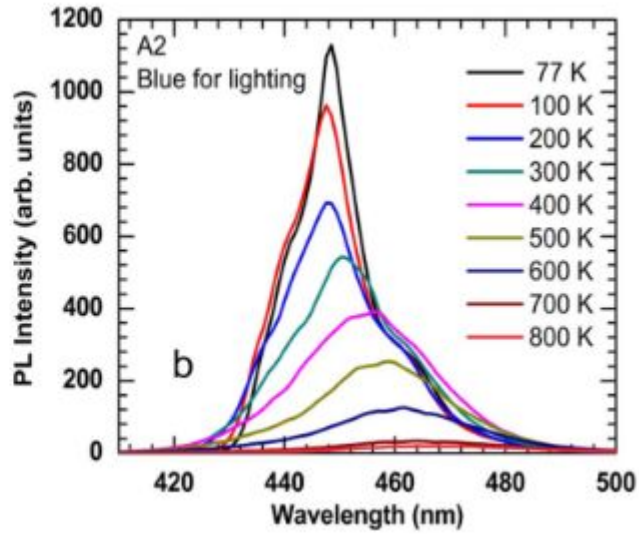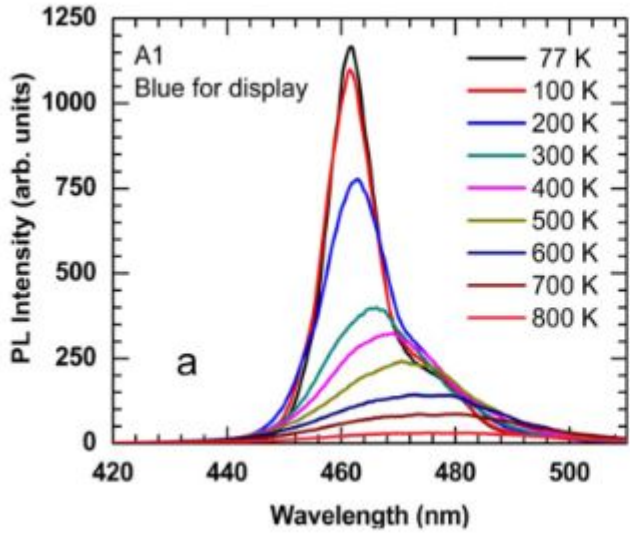

opencv-python 4.9.0.80

```
pip install opencv-python
```

SUPPORT

High Temperature and Power Dependent Photoluminescence Analysis on Commercial Lighting and Display LED Materials for Future Power Electronic Modules

Investigation of the Electroluminescence Mechanism of GaN-Based Blue and Green Light-Emitting Diodes with Junction Temperature Range of 120–373 K