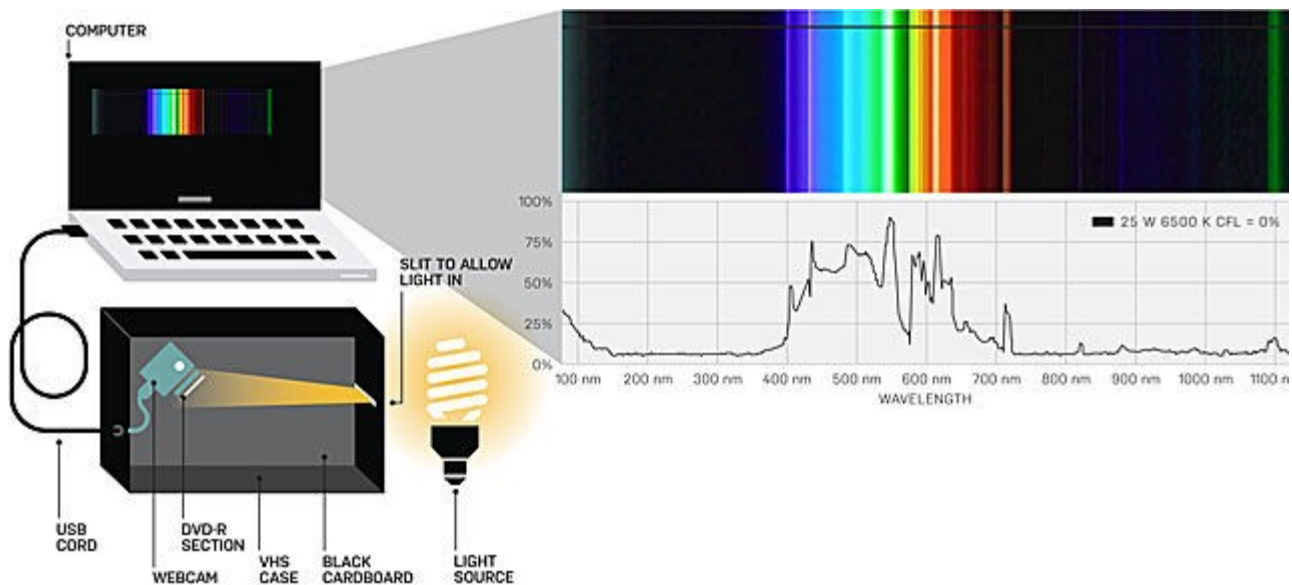


# DIY spectrophotometer

## Hesam Hamidi

The definition of a spectrophotometer is an instrument used to measure the intensity of wavelengths in a spectrum of light. An example of spectrophotometer is how an ink manufacturer would figure out how much of one color is present in an ink.

The parts and concept of working is shown in next image.



I used a Microsoft lifecam cinema webcam and diffraction grating from a DVD. Made box with lasertool boxmaker in inkscape. If you need more info send message on Copenhagenfablab Facebook group.

More links:

<https://publiclab.org/notes/abdul/10-19-2016/foldable-paper-spectrometer-instructions>

<http://www.popularmechanics.com/technology/gadgets/how-to/a8575/turn-your-laptop-into-a-spectrometer-14908361/>

<http://renaud.schleck.free.fr/spectrometre.php>

<https://hackaday.com/2012/08/27/turning-a-webcam-into-a-spectrometer/>

