**Materials:**

* Ocean Optics USB 2000 Spectrometer
* Spectrometer Coupled Fiber
* USB to USB-B Cable
* Digital light projector
* Computer

**Software:**

* OceanView by Ocean Optics
* Matlab by MathWorks
* Excel by Microsoft
* Lightcrafter by Texas Instruments
* DLP\_Consistency.ocv

**Methodology:**

1. Install all relevant software and drivers
2. Mount one end of the spectrometer coupled fiber underneath the objective such that the fiber is picking up the light coming out of the objective
3. Connect the other end of the fiber to the spectrometer
4. Connect Ocean Optics USB 2000 Spectrometer to the computer
5. Load DLP\_Consistency.ocv script with OceanView
6. Turn on the digital light projector
7. Start Lightcrafter and launch the pattern sequence
8. In OceanView free view check for the expected spectrum
9. Move the fiber under the objective till the spectral peak is roughly 80% of the spectrometer’s saturation intensity.
10. In OceanView switch to schematic view and start the FileWriter block.
11. Import the generated data file into excel and save it.
12. Import the data column of the saved excel file into Matlab
13. Run the DLP\_Consistency\_Evaluation.m function with that column vector as the input.