Revised Outline

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1. Introduction
2. Materials and Methods
   1. Materials
      1. OC&ML are composed of SiO2. The OC&ML focus light on CIS. CF is composed of materials which have high transmittance at red, green, blue and white light each matched CIS. The CF serves to filter the light of the desired wavelength range.
      2. DTI is composed SiO2. DTI prevent external light from neighbors CISs to the detector area and leakage of internal light.
      3. QE is a variable which shows how much desired wavelength light is detected. Crosstalk is a variable which shows how undesired wavelength light or external light from neighbors are detected.
   2. Methods
      1. CIS simulated by FDTD simulations from Lumerical Inc.
      2. Shift OC&ML as d1 [nm] by 10 nm step from ? nm to ? nm. Also, Shift CF as d2 [nm] by 10nm step from ? nm to ? nm. Tilt DTI as by 0.5 step from ? to .
3. Results
   1. QE and Crosstalk
      1. QE
      2. Crosstalk
   2. Optimum Values
      1. OC&ML as d1 [nm] and d2 [nm], by 10 nm step from ? nm to ? nm. Also CF
      2. DTI
4. Discussion