

Optical Scheme FLIM-I

Transmission



Nov 2017



Objectives

- 10X (Plan NeoFluar NA 0.3 air)
- 20X (Plan NeoFluar NA 0.5 air)
- 40X (Plan NeoFluar NA 1.3 oil)
- 63X (Plan Achromat NA 1.4 oil)
- 63X (AchoPlan NA 0.95 water, no coverslip, long WD)
- 100X (AlphaPLAN NA 1.45 oil) (TIRF)

Orange Fiber from laser room

- 405
- 440
- 488
- 514
- 532
- 561

- ### Filtercubes
- 1 CFP -/455/480-40
 - 2 GFP -/495/515-30
 - 3 YFP -/535/542-27
 - 4 80/20% mirror
 - 5 Calibration Cube
 - E1: OFP -/562/593-40
 - E2: RFP -/600/630-60
 - E3: DAPI 365/395/>397
 - E4: CFP/YFP 2442dbx/86004/>520
 - E5: GFP/RFP 51005ex/bs/empty
 - E6: BFP /-420/450-50

- ### Excitation filters
- 1. 365/10 nm
 - 2. 405/10 nm
 - 3. 436/20 nm
 - 4. 470/40 nm
 - 5. 500/20 nm
 - 6. 546/10 nm
 - 7. 577/20 nm
 - 8. open

- ### Emission filter slider 1
- 1. LP 435
 - 2. E 530LP
 - 3. Empty
 - 4. HQ 565LP
 - 5. E 590LP

- ### Emission filter slider 2
- 1. HQ 460LP
 - 2. HQ 480LP
 - 3. empty
 - 4. 534/20
 - 5. E 570LP

sample

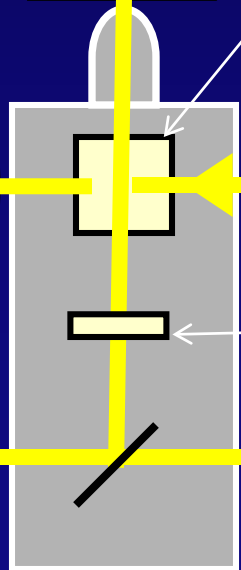
Exc. Filt.

Photometrics Coolsnap CCD-camera

Lambert Intensifier Camera

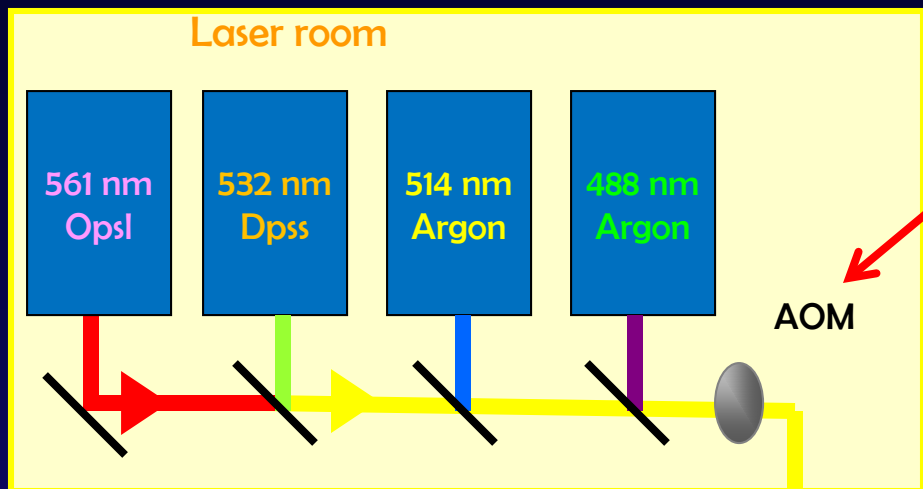
Inspector Image spectrograph

Hamamatsu Orca camera



To FLIM-I

To FLIM-II



Modulated at half frequency

Modulated at same frequency

