

Specifications LSM Zeiss 780 NLO

STAND

- Zeiss Axio Observer Z1 (inverted)

OBJECTIVES

- "PlanApochromat" 10x/0.45 (WD=2.1mm)
- "PlanApochromat" 20x/0.8 (WD=0.55mm)
- "Plan Neofluar"40x/1.3OilDIC (WD=0.21mm)
- "C Apochromat"40x/1.2WCorr UVVISIR (WD=0.28mm)
- "PlanNeofluar" 63x/1.3Imm CorrDIC water or glycerine immersion
- "PlanApochromat" 63x/1.40 Oil DIC (WD=0.19mm)

EXCITATION

- 405, 440, 458, 488, 514, 561,594, 633 nm laser lines
- 2Photon: 680-1080 nm tunable
- 2 Photon OPO: 1000-1280 nm tunable

DETECTION

- 34channel Quasar detector (32 GaAsP element array and 2 side PMTs)
- External detection module BiG DIC/transmitted, (forward), 2 channels
- External detection module BiG incident light (backwards), 2 channels
- BiG filters: 380-430/470-515, 420-475/500-550, 455-500/575-610, 500-550/575-610, 525-560/650-750
- Spectral imaging
- Up to 10 channels simultaneous, 4 tracks sequential
- FCS or FCCS possible on Quasar detector

STAGE / INCUBATION

- Incubator XL S1 DARK (temp. and CO2 controlled)
- Heating Insert for 3cm petri dishes
- Heatable universal plate mounting frame
- Universal mounting frame
- Scan speed up to 250 frames/sec (512x16 pixels, high mag)
- Scan resolution up to 6144x6144 pixels
- 20 mm scanfield diagonal
- Tiling, z-stack, positions, time lapse in different combinations possible

SOFTWARE

- ZEN black acquisition
- FCS/ FCCS
- Co-localization
- 3D
- Spectral unmixing
- Tile scan

This system has coupling with one Chameleon Vision compact OPO two photon laser together with upright LSM7 MP .