

## Zeiss LSM 880 Confocal Microscope - Inverted Microscope



### GENERAL SPECIFICATIONS:

- Axio Observer motorised inverted laser scanning microscope with 6 visible laser lines
- Freely selectable ROI for laser scanning, bleaching and photoactivation
- Scan speeds of up to 8 frames/second with 512 x 512 pixels.
- xy, xz, xyz, xyzt, lambda, line scan and spot scan modes
- Transmitted light brightfield and incident light fluorescence using metal halide HXP light source
- DIC optics for 10X, 25X, and 63X objectives

### MICROSCOPE OBJECTIVES:

- EC Plan-Neofluar 10x/0.30 NA WD=5.2 mm

- LD LCI PA 25x/0.8 NA DIC WD=0.57 mm Imm Corr (UV)VIS-IR (Multi-Immersion (Oil, glycerine, water))
- LD C-Apochromat 40x/1.1 NA W Corr
- Plan Apochromat 40x/1.3 NA oil
- Plan Apochromat 63x/1.4 NA oil
- alpha Plan-Apochromat 63x/1.46 NA oil
- Plan Apochromat 40x/1.2 NA Water (FCS)

#### ILLUMINATION :

- Diode 405nm
- Argon multiline 458/488/514nm (25 mW)
- HeNe 561nm (5 mW)
- HeNe 633nm (5 mW)

#### DETECTORS:

- Descanned Detectors (Single photon) 2 x GaAsP plus 2 standard PMT NDD detectors
- Airyscan Detector for enhanced Sensitivity and/or Resolution

#### ENVIRONMENT CONTROL:

- Incubator chamber with temperature control

#### SOFTWARE:

- ZEN Black 2.1 SP3 LSM

3D and 4D reconstruction and animation.

Analysis and quantification for co-localisation.

Software modules for FRAP, FRET, Tiles and Positions, FCS, Advanced FCS and Experiment Designer