

# Zeiss Lightsheet Z.1

Building 8 | Lab 1.16



The Zeiss Lightsheet Z.1 is a lightsheet fluorescence microscope that enables fast volumetric imaging of large cleared samples (up to 1cm x 1cm x 2cm) or live transparent samples with low photobleaching and low phototoxicity.

## LASER LINES

488 nm 50mW

561 nm 50mW

638 nm 75mW

## OBJECTIVES | ILLUMINATION

5x/0.1

10x/0.2

## OBJECTIVES | DETECTION

5x/0.16 EC Plan-NEOFLUAR

10x/0.5 W Plan-APO

20x/1.0 W Plan-APO DIC Corr UV-VIS-IR nd=1.33

20x/1.0 Clr Plan-APO Corr VIS-IR nd=1.38

## FILTERS | CAMERA 1 & CAMERA 2

GFP | 505-545 nm & Cy3 | 575-615nm

GFP | 505-545 nm & mCherry | 585nm

YFP | 525-565 nm & Cy3 | 575-615nm

Cy3 | 575-615 nm & DRAQ5 | LP 660 nm

## CAMERAS

2 PCO.edge sCMOS Cameras | 30 fps | pixel 6.5  $\mu$ m

## CHAMBERS AND INCUBATION

Aqueous media (n=1.33)

Clearing media (n=1.38/20x, n=1.45/5x)

Incubation and temperature control options

## ACQUISITION DESKTOP ZEN 2014

CPU 2x Intel XEON CPU E5-2623 @3.0GHz

RAM 64 GB

Storage 4x 2TB | 4TB RAID 10

GPU NIVIDIA Quadro K2000 4 GB

OS Windows 7

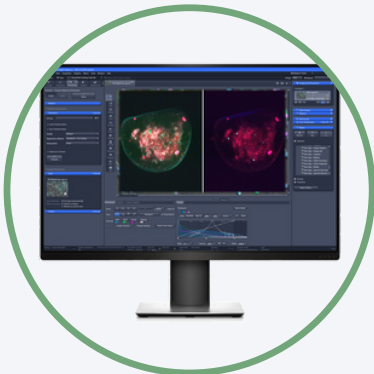


# Zeiss Lightsheet Z.1 Workstation

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Handling, processing and visualisation of lighsheet microscopy data is extremely computer intensive and requires the use of a high performance computer. The Zeiss Lightsheet Z.1 Win 7 workstation is specifically configured for storing and handling large experimental dataset obtained with the Zeiss Lightsheet Z.1 microscope.



## WORKSTATION

**CPU** Intel XEON CPU E5-2620 @2.4GHz

**RAM** 192GB

**Storage** 6x HDD 8TB | RAID 5 config 36TB

**GPU** NIVIDIA Quadro K2000 4 GB

**OS** Windows 7



## SOFTWARE

Zeiss Zen 2014

Arivis vision4D

Fiji/ImageJ



## WARNING

Save your data in D:\SWAP\*your name* and not in the C:\ drive.