

SPED/COLM light-sheet

Location

Campus Biotech - B304 Room 193.126

Objectives

Detection:

Magnification	NA	Immersion	WD (mm)
4X	0.28	dry	29
10X	0.60	Clarity (corr)	8
25X	1.0	Clarity (corr)	8

Illumination:

Magnification	NA	Immersion	WD (mm)
4X	0.28	dry	29

Filters

Emission Filters
525/50
609/50

Illumination

DPSS laser 488 nm;

DPSS laser 561 nm;

DPSS laser 647 nm

Detection

Camera	Hamamatsu ORCA-Flash 4.0 V2
Type	Monochrome sCMOS
Dynamical range	16 bit
Pixel size	6.5 μm
Full frame size	2048 x 2048
Frame rate	100 fps full frame

Stage

Motorized (xyz axes + rotation)

Software

Labview

Application

High resolution full brain imaging

Deep tissue imaging