

## Light sources

<b>Epifluorescence</b>			
		excitation (nm)	Power (mW)
SOLA III V-nIR Light Engine white light LED, Unfiltered Light Source.		Centered around 395, 430, 480, 550, 621, 735	4000 (combined)
Spinning Disk Confocal:			
Solid-state lasers			
405nm laser	DAPI, Hoechst, BFP	405	120
445nm laser	ECFP, mCerulean, mTurquoise2	445	200
488nm laser	FITC, EGFP, AF488	488	200
515nm laser	EYFP, mVenus, mCitrine, AF514	515	150
561nm laser	Texas Red, mCherry, Cy3.5, AF568	561	150
638nm laser	Cy5, AF647	638	200

<b>Filters/Dichroic mirrors</b>				
name	Fluorochromes	excitation (nm)	dichroic (nm)	emission (nm)
DAPI-5060C BrightLine Filterblock	DAPI, Hoechst, BFP, AF350	377/50	409	447/60
CFP-2432C BrightLine Filterblock	ECFP, mCerulean, mTurquoise2	438/24	458	483/32
FITC-3540C BrightLine Filterblock	FITC, EGFP, AF488	482/35	506	536/40
YFP-2427B BrightLine Filterblock	EYFP, Venus, Citrine, AF514	500/24	520	542/27
TXRED-4040C BrightLine Filterblock	Texas Red, mCherry, Cy3.5, AF568	562/40	593	624/40
Cy7-B / Cy7 BrightLine Filterblock	Cy7, AF750, AF790	708/75	757	809/81

<b>Spinning Disk Confocal</b>				
name	Fluorochromes	excitation (nm)	dichroic (nm)	emission (nm)
447/60 nm BrightLine single-band bandpass	DAPI, Hoechst, BFP			447/60
472/30 nm BrightLine single-band bandpass	ECFP, mCerulean, mTurquoise2			472/30
525/50 nm BrightLine single-band bandpass	FITC, EGFP, AF488			525/50
542/27 nm BrightLine single-band bandpass	EYFP, mVenus, mCitrine, AF514			542/27
600/52 nm BrightLine single-band bandpass	Texas Red, mCherry, Cy3.5, AF568			600/52
708/75 nm BrightLine single-band bandpass	Cy5, AF647			708/75
BrightLine quad-band emission filter	DAPI/EGFP/mCherry/Cy5		440/521/607/700	
dual-camera split dichroic mirror GFP/RFP	EGFP/mCherry		561LP	
dual-camera split dichroic mirror CFP/YFP	mTurquoise2/mCitrine		514LP	
dichroic mirror 445/514/640	mTurquoise2/mCitrine/Cy5			
dichroic mirror 405/488/561/638	DAPI/EGFP/mCherry/Cy5			

<b>Objectives</b>				
name	magnification	NA	working distance (mm)	immersion
CFI Plan Apochromat 10x Lambda D	10x	0,45	4	air
CFI Plan Apochromat 20x Lambda D	20x	0,8	0,8	air
CFI APO LWD 20x WI Lambda S	20x	0,95	0,95	water
CFI Apo LWD 40x WI Lambda S	40x	1,15	0,6	water
CFI Plan Apochromat 60x Lambda D	60x	1,42	0,15	oil