

Zeiss LSM 710 Upright Confocal Microscope

Specification	
Lasers	Argon (458,488,514nm); Diode (405nm); DPSS (561nm), HeNe (633nm); Spectra Physics MaiTai HP tunable 2-photon (690-1040nm)
Microscope	
Stand	Upright: Axio Examiner Z1
XY stage	Mechanical stage for small animal imaging
Filter cubes	#49 DAPI; #43 HE DsRed; #38 EGFP, #50 Cy5
Objectives	10x 0.3; 20x1.0 DIC Water; 40x1.4 Oil DIC; 63x1.4 oil DIC
Accessories	Digital microscope camera AxioCam FCS3 closed chamber
Scan Module	
Scan mode	xy, xyz, xz, xt, xyt, lambda
Scanning speed	2 frames/sec with 512 × 512 pixels
Detector	32-array PMTs + 2 single PMTs; 1 transmitted light PMT 2 channels NDD module for reflected fluorescence
Filter set for NDD	Red/green (BP 565-610 /BP 500-550); CFP/YFP (BP455-500/ BP 520-560)
Software	Windows 7 Ultimate, ZEN 2011 SP4
Application	DIC imaging; Spot//line Scan; XY 2D imaging; multi-spectrum fluorescence imaging; Z-stack 3D imaging; lambda scan, linear unmixing; online fingerprinting, colocalization, live cell imaging; FRAP, FRET, two photon imaging, small animal imaging