

Zeiss LSM 780 Inverted Confocal Microscope

Specification	
Lasers	Diode 405nm (30mW); Argon (458, 488, 514nm) (25mW); DPSS 561nm (20mW); HeNe 633 nm (5mW); Coherent Chameleon Vision II (Tuning range 680nm-1080nm)
Microscope	
Stand	Inverted: Axio Observer. Z1
XY stage	Motorized scanning stage, Piezo stage insert
Filter cubes	#49 DAPI; #43 DsRed; #38 EGFP; #50 Cy5
Objectives	5x0.16 Ph1; 10x 0.45Ph1; 20x0.8Ph2; 40x1.4 oil DIC
Accessories	TOKAI HIT stage-top incubator Definition Focus Unit Piezo Z stage insert
Scan Module	
Scan mode	xy, xyz, xz, xt, xyt, lambda
Scanning speed	8 frames/sec with 512 × 512 pixels
Detector	32-array GaAsP PMTs + 2 single PMTs ; 1 transmitted light PMT
Software	Windows 7, ZEN 2012
Application	DIC/Phase contrast 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, Tile scanning multiple position imaging.