

LSM990 with Airyscan 2 & Two-Photon

Specification	
Lasers	Diode: 405nm (5mW); 488nm (10mW); 639nm (7.5mW); DPSS: 561nm (10mW), 594nm(2.5mW); Coherent Chameleon Vision II (Tuning range 680nm-1080nm)
Microscope	
Stand	Inverted: Axio Observer 7 stand NLO
XY stage	Motorized scanning stage
Filter cubes for observation	X-Cite Xylis II(wavelength range:380-770nm) Filter set 38 Endow GFP(Ex BP 470/40, BS FT495, Em BP525/50) Filter set 43 Cy3 (Ex BP 545/25, BS FT570, Em BP 605/70) Filter set 49 DAPI (Ex G365, BS FT395, Em BP 445/50)
Objectives	10x 0.45 Ph1(FWD=2.1mm) 20x 0.8 Ph2(FWD=0.55mm) Plan-Apochromat 40x 1.3 Oil DIC M27(FWD=0.21) Airyscan calibration
Accessories	TOKAI HIT Stage Top Incubator Definition Focus Unit (DF3)
Scan Module	
Scan mode	xy, xyz, xz, xt, xyt
Scan speed	At 512 × 512 pixels: confocal – up to 6.1 fps; Airyscan SR – up to 4.7 fps; Multiplex SR-4Y – 25 fps; Multiplex SR-8Y – 47.5 fps; Multiplex CO-8Y – 34.4 fps
Detector	Airyscan 2(32 concentrically arranged GaAsP detection elements), 4 channels GaAsP PMT plus 2 channels MA-PMT; 1 transmitted light T-PMT
Software	Windows 11, ZEN 3.13 (BLUE version)
Application	DIC/Phase contrast imaging; Spot/line Scan; XY 2D imaging; multi-spectrum fluorescent imaging; Z-stack 3D imaging, colocalization, live cell imaging; FRAP, FRET, ZEN connect;