

ZEISS LSM710 NLO

INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	Room 8023 (PC2 facility), Doherty Institute, Department of Microbiology & Immunology, University of Melbourne						
Stand	Upright Axio Examiner.Z1						
Illumination	Transmitted			Fluorescence			
	Hal 100 (Halogen 12V 100W)			X-cite® 120PC Q (Mercury Arc 120W)			
Filters	Name	Excitation	Dichroic	Emission	Labelled as		
	20 HE Rhod	BP 546/12	FT 560	BP 607/80	Alexa 561		
	49 DAPI	G 365	FT 395	BP 445/50	DAPI		
	65 HE AF488	BP 475/30	FT 495	BP 550/100	GFP		
Lasers	Type		Wavelength			Maximum output	
	Diode		405 nm			30 mW	
	Argon		458, 488, 514 nm			25 mW	
	DPSS		561 nm			20 mW	
	HeNe		633 nm			5 mW	
NLO Laser	Ti:Sapphire		Coherent Chameleon Vision 690-1040nm			3 W	
Stage control	Motorised stage control with z-stack, tile scan and point visiting capability						
Objectives Specification	Magnification	Type	NA	Working distance	Coverslip Thickness		Resolution at 550nm (Glycerol)
W Plan-Apochromat 421452-9880-000	20x	Water	1.0	1.7 mm	0.17 (#1.5)		lateral:220 axial:524
Plan-Apochromat 420782-9900 DIC: 426957 (III)	63x	Oil	1.4	0.19mm	0.17 (#1.5)	DIC	lateral:157 axial:374
Detectors	#	Type	Details				
	2	PMT	Fluorescence detectors				
	2	sPMT	Spectral fluorescence detectors				
	5	NDD	Non-descanned detectors (fitted with custom bandpass filter sets and LP690 / LP760 dichroic)				
Software	Zen 2012						
Holder	Slides, Flat stage (for custom-made intravital imaging stages); Custom Delta-T live explant dish stage.						
Applications	Intravital multiphoton microscopy, anesthetized animals; temperature-controlled tissue explant; slides.						
File Saving	External USB						
Extra features	Circular air-heater; temperature controlled, light enclosure; anesthesia/vacuum tubing; Equipped surgery/anesthesia (Isoflurane nebulizer) bench; Peristaltic pump system						