

ZEISS LSM710

INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	Room 7020 (PC2 facility), Doherty Institute, Department of Microbiology & Immunology, University of Melbourne						
Stand	Inverted Axio Observer.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		
	64 HE mPlum	BP 587/25	FT 605	BP 647/70	mPlum		
	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	
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)
Plan-Apochromat 420640-9900 DIC: 1045-073(II)	10x	Air	0.45	2.1mm	0.17 (#1.5)	DIC	lateral:489 axial:1164
Plan-Apochromat 420650-9901 DIC: 426940 (II)	20x	Air	0.8	0.55mm	0.17 (#1.5)	DIC	lateral:275 axial:655
EC Plan-NEOFLUAR 420462-9900	40x	Oil	1.3	0.21 mm	0.17 (#1.5)	DIC	lateral:169 axial:403
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				
	2	GaAsP	gallium arsenide phosphide detectors				
	1	T-PMT	Transmitted light				
Software	Zen 2012						
Holder	Slides						
Applications	Fixed tissue on slide						
File Saving	External USB / Via internal network						
Extra features	SIP 130384						