

Zeiss LSM780 (DMI)

INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	Room 8023 (PC2 facility), Doherty Institute, Department of Microbiology & Immunology, University of Melbourne					
Stand	Axio Observer.Z1					
Illumination	Transmitted			Fluorescence		
	Hal 100 (Halogen 12V 100W)			HXP120V		
Filters	Name	Excitation	Dichroic	Emission		
	49 DAPI	G365	FT395	BP445/50	488049-9901-000	
	38 GFP	BP470/40	FT495	BP525/50	000000-1031-346	
	43 CY3	BP545/25	FT570	BP605/70	000000-1114-101	
Lasers	Type		Wavelength		Maximum output	
	Diode		355nm		60 mW (Bleach) 20mW (Imaging)	
	Diode		405 nm		30 mW	
	Argon		458, 488, 514 nm		25 mW	
	DPSS		561 nm		20 mW	
	HeNe		594 nm		2 mW	
	HeNe		633 nm		5 mW	
Stage control	Motorized stage control with z stack, tile scan and point visiting capability					
Objectives Specification	Magnification	Type	NA	Working distance (mm)	Coverslip Thickness	Resolution at 550nm (Glycerol mounted)
420630-9900	5x	Air	0.16	12.5 mm	0.17 mm (#1.5)	Lateral 1373 Axial 3273
420640-9900	10x	Air	0.45	2.1 mm	0.17 mm (#1.5)	Lateral 489, Axial 1164
420650-9901	20x	Air	0.8	0.55 mm	0.17 mm (#1.5)	Lateral 275, Axial 655
420852-9870	25x	Water Oil Glycerine	0.8	0.57mm at cover glass 0.17	0-0.17 Correction collar	Lateral 275, Axial 655
420762-9900	40x	Oil	1.4	0.13 mm	0.17 mm (#1.5)	Lateral 157, Axial 374
420782-9900	63x	Oil	1.4	0.19 mm	0.17 mm (#1.5)	Lateral 157, Axial 374
Detectors	#	Type		Details		
	1	PMT		Photo multiplier tube		
	1	QUASAR		32 GaAsP PMT array for spectral detection		
	1	Cooled PMT		Cooled photo multiplier tube		
	1	T-PMT		Transmitted light detector		
Software	Zen 2012					
Holder	Universal slide holder / dish insert (with heated stage)					
Applications	Fixed Tissue, Fixed cells, spectral separation, live cell imaging with heated chambers and gas controls					
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Extra features	polarization anisotropy					