

Zeiss LSM780 (DMI)

INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	Room 7020 (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	Multi-Immersion Water, Silicone, Glycerol	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		
Applications	Fixed Tissue, Fixed cells, spectral separation		
File Saving	\\unimelb.edu.au\MDHS-Research\Platforms\BOMP\Data-mirror\LSM780		
Extra features	polarization anisotropy		