

ZEISS LSM900 INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	N814, 8 th Floor, Medical building, University of Melbourne					
Stand	Axio Observer 7 (Inverted Microscope)					
Illumination	Transmitted			Fluorescence		
	LED (ESID system)			Colibri 7 (LED system for 385nm, 475nm, 555nm, 590nm & 630nm)		
Filters	Name	Dichroic	Emission			
	90 HE LED	QBS 405, 493,575 & 653	QBP 425/30, 514/30, 592/25 & 709/100		489090-9110-000	
	92 HE LED	TBS 405, 493 & 610	TBP 425/30, 524/50 & 688/145		489092-9110-000	
Lasers	Type		Wavelength		Maximum output	
	Diode		405nm		5mW	
	Diode		488nm		10mW	
	Diode		561nm		10mW	
	Diode		640nm		5mW	
Stage control	Motorised XY stage control with z-stack, tile scan and point visiting capability					
Objectives Specification	Magnification	Type	NA	Working distance	Coverslip Thickness	Resolution at 550nm
EC Plan-Neofluar 420330-9901-000	5x	Air	0.16	18.5mm	0.17 (#1.5)	lateral: 1375nm axial: 3274nm
Plan-Apochromat 420650-9902-000	20x	Air	0.8	0.55mm	0.17 (#1.5)	lateral:275nm axial:655nm
Plan-Apochromat 420852-9871-000	25x	Water, Silicon Oil, Glycerol, Oil	0.8	0.57mm	0.17 (#1.5)	lateral: 275nm axial: 655nm
Plan-Apochromat 420862-9970-000	40x	Water, Silicon Oil, Glycerol	1.2	0.41mm	0.15-0.19	lateral: 183nm axial: 437nm
Plan-Apochromat 421782-9900-799	63x	Oil	1.4	0.14mm	0.17 (#1.5)	lateral:157nm axial:374nm
EC Plan-Neofluar 440340-9904-000	20x	Air	0.5	2.0mm	0.17 (#1.5)	lateral:440nm axial:1048nm
Detectors	#	Type	Details			
	1	AiryScan 2	AiryScan 2 detector, 32 channel GaAsP (Gallium Arsenide Phosphid) detector, optimised for 63x/1.4 oil objective			
	2	GaAsP	Fluorescence detectors			
	1	ESID	Transmitted light detector (Electronically Switchable Illumination and Detection module)			
Software	Zen 3.2 (Blue)					
Holder	Multiwell plates and slide holder					
Applications	Fixed and Live cell imaging, Super-resolution imaging, Spectral Imaging					
File Saving	.czi file (export to tif or jpeg) to Internal network					