ZEISS LSM900
INSTRUMENT SPECIFICATION SHEET

THE UNIVERSITY OF MELBOURNE | BIOLOGICAL OPTICAL MICROSCOPY PLATFORM

Location	N814, 8th 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
EC Plan-Neofluar 420340-9901-000	10x*	Air	0.3	5.2mm	0.17 (#1.5)	lateral: 733nm axial: 2567nm
Plan-Apochromat 420640-9900-000	10x	Air	0.45	2.0mm	0.17 (#1.5)	lateral: 489nm axial: 1711nm
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

*Not available on the microscope. Please contact BOMP for usage.
†DIC

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)
	1	Axiocam 705 mono (D)	5-megapixel CMOS for DIC and fluorescence imaging
Software	Zen 3.2 (Blue)		
Holder	Multiwell plates and slide holder		
Applications	Fixed and Live cell imaging, Super-resolution imaging, Spectral Imaging, DIC imaging		
File Saving	.czi file (export to tif or jpeg) to Internal network		