ZEISS LSM800

INSTRUMENT SPECIFICATION SHEET

THE UNIVERSITY OF MELBOURNE | BIOLOGICAL OPTICAL MICROSCOPY PLATFORM

Location	N815, 8th Floor, Medical building, University of Melbourne				
Stand	Upright Axio Imager.Z2				
Illumination	**Transmitted**		**Fluorescence**		
	LED (ESID system)		Illuminator HXP 120 V (Mercury Arc 120W)		
Filters	**Name**	**Excitation**	**Dichroic**	**Emission**	
	49 DAPI	G 365	FT395	BP 445/50	488049-0000
	10 AF488	BP 450-490	FT510	BP 515-565	488010-0000
	20 Rhod	BP 546/12	FT560	BP 575-640	488020-0000

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**
Plan-Apochromat 420640-9900-000	10x	Air	0.45	2 mm	0.17 (#1.5)	lateral:489 axial:1164
Plan-Apochromat 420650-9901-000	20x	Air	0.8	0.55mm	0.17 (#1.5)	lateral:275 axial:655
Plan-Apochromat 420762-9800-000	40x	Oil	1.3	0.21mm	0.17 (#1.5)	lateral:169 axial:403
Plan-Apochromat* 420782-9900-799	63x	Oil	1.4	0.19mm	0.17 (#1.5)	lateral:157 axial:374

**DIC capable*

Detectors	**#**	**Type**	**Details**
	1	Airy Scan	Airyscan detector, 32 channel GaAsP (Gallium Arsenide Phosphid) detector, optimised for 63x/1.4 oil objective
	2	MA PMT	Fluorescence detectors (multialkali)
	1	ESID	Transmitted light detector (Electronically Switchable Illumination and Detection module)

Software	Zen 2.3 (Blue)
Holder	Standard slide holder
Applications	Fixed tissue
File Saving	External USB / Via internal network