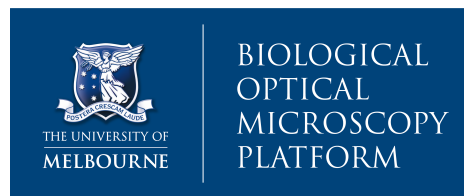


# Zeiss Elyra LSM880

## INSTRUMENT SPECIFICATION SHEET



<b>Location</b>	Room 120, Bio21 Institute					
<b>Stand</b>	AxioObserver 7					
<b>Illumination</b>	<b>Transmitted</b>			<b>Fluorescence</b>		
	HAL100			HXP 120V		
<b>Emission Filters</b>	<b>Name</b>	<b>Excitation</b>	<b>Dichroic</b>	<b>Emission</b>		
	FSet77	TBP 483/564/642	TFT 506/582/659	TBP 526/601/688		
	BP 420-480 + LP750					
	BP 495 – 550 + LP750					
	BP 570-620 + LP750					
LP655						
<b>Lasers</b>	<b>Type</b>	<b>Wavelength</b>			<b>Maximum output</b>	
	Elyra P1	405nm			50mW	
		488nm			200 mW	
		561nm			200 mW	
		642nm			150mW	
	Confocal	405nm			30 mW	
		Argon (458, 488, 514nm)			25 mW	
		561nm			20 mW	
633nm			5 mW			
<b>Stage control</b>	Motorised xy controller, Z piezo					
<b>Objectives Specification</b>	<b>Magnification</b>	<b>Type</b>	<b>NA</b>	<b>Working distance</b>	<b>Coverslip Thickness</b>	<b>Resolution at 550nm (Glycerol mounted)</b>
Alpha Plan-Apochromat (420792-9800-720)	100x (TIRF)	Oil	1.46	0.11	0.17	Lateral 151 nm Axial 356 nm
Plan-Apochromat (420782-9900-799)	63x	Oil	1.4	0.19	0.17	Lateral 157 nm Axial 374 nm
C-Apochromat (421787-9970-799)	63x	Water	1.2	0.28	0.14 - 0.19	Lateral 183 nm Axial 437 nm
Plan Apochromat (420660-9970-000)	40x	Air	0.95	0.25	0.13 - 0.21	Lateral 232 nm Axial 551 nm
Plan-Apochromat (420650-9902-000)	20x	Air	0.8	0.55	0.17	Lateral 275 nm Axial 655 nm
<b>Detectors</b>	<b>#</b>	<b>Type</b>	<b>Details</b>			
	1	Camera	Andor iXOn Ultra DU897 (Widefield and SMLM)			
	2	Confocal	1 x GaAsP + 2 x flanking PMT detectors			
	3	Airyscan	32 detector Hexagonal array			
<b>Software</b>	Zen Black 2.3 SP1					

<b>Holder</b>	Standard slide, 8-well chamber slide, Lab-Tek chamber slides, 35 mm imaging dish and 60mm imaging dish
<b>Applications</b>	Live cell imaging, super-resolution imaging (Airyscan & SMLM), TIRF imaging (incl HiLo). Fast live cell acquisitions using Airyscan fast.
<b>File Saving</b>	.czi file (export to tif or jpeg)
<b>Extra features</b>	Imaging Optics MicAO module for 3D SMLM imaging