

# ZEISS LSM710 NLO

## INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL  
OPTICAL  
MICROSCOPY  
PLATFORM

<b>Location</b>	Room 8023 (PC2 facility), Doherty Institute, Department of Microbiology & Immunology, University of Melbourne						
<b>Stand</b>	Upright Axio Examiner.Z1						
<b>Illumination</b>	<b>Transmitted</b>			<b>Fluorescence</b>			
	Hal 100 (Halogen 12V 100W)			X-cite® 120PC Q (Mercury Arc 120W)			
<b>Filters</b>	<b>Name</b>	<b>Excitation</b>	<b>Dichroic</b>	<b>Emission</b>	<b>Labelled as</b>		
	20 HE Rhod	BP 546/12	FT 560	BP 607/80	Alexa 561		
	49 DAPI	G 365	FT 395	BP 445/50	DAPI		
	65 HE AF488	BP 475/30	FT 495	BP 550/100	GFP		
<b>Lasers</b>	<b>Type</b>		<b>Wavelength</b>			<b>Maximum output</b>	
	Diode		405 nm			30 mW	
	Argon		458, 488, 514 nm			25 mW	
	DPSS		561 nm			20 mW	
	HeNe		633 nm			5 mW	
<b>NLO Laser</b>	Ti:Sapphire		Coherent Chameleon Vision 690-1040nm			3 W	
<b>Stage control</b>	Motorised stage control with z-stack, tile scan and point visiting capability						
<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)</b>
W Plan-Apochromat 421452-9880-000	20x	Water	1.0	1.7 mm	0.17 (#1.5)		lateral:220 axial:524
Plan-Apochromat 420782-9900 DIC: 426957 (III)	63x	Oil	1.4	0.19mm	0.17 (#1.5)	DIC	lateral:157 axial:374
<b>Detectors</b>	<b>#</b>	<b>Type</b>	<b>Details</b>				
	2	PMT	Fluorescence detectors				
	2	sPMT	Spectral fluorescence detectors				
	5	NDD	Non-descanned detectors (fitted with custom bandpass filter sets and LP690 / LP760 dichroic)				
<b>Software</b>	Zen 2012						
<b>Holder</b>	Slides, Flat stage (for custom-made intravital imaging stages); Custom Delta-T live explant dish stage.						
<b>Applications</b>	Intravital multiphoton microscopy, anesthetized animals; temperature-controlled tissue explant; slides.						
<b>File Saving</b>	External USB						
<b>Extra features</b>	Circular air-heater; temperature controlled, light enclosure; anesthesia/vacuum tubing; Equipped surgery/anesthesia (Isoflurane nebulizer) bench; Peristaltic pump system						