

LEICA SP5

INSTRUMENT SPECIFICATION SHEET



BIOLOGICAL
OPTICAL
MICROSCOPY
PLATFORM

Location	W505, Cell Signaling Centre, Medical building, University of Melbourne					
Stand	Inverted DMI6000B					
Illumination	Transmitted			Fluorescence		
	12 V/100 W halogen lamp			EL6000 (100W Metal-halogenide lamp)		
Filters	Name	Excitation	Dichroic	Emission		
	I3	BP 450-490	510	LP 515		Non selective
	N2.1	BP 515-560	580	LP 590		Non selective
	A4	BP 360/40	400	BP 470/40		DAPI
	L5	BP 480/40	505	BP 527/30		FITC
	N3	BP 546/12	565	BP 600/40		TRITC
Lasers	Type		Wavelength		Maximum output	
	Diode		405 nm		6 mW	
	Argon		458, 476, 488, 496, 514 nm		30 mW	
	DPSS		561 nm		12 mW	
	HeNe		633 nm		5 mW	
Stage control	Motorised stage control with z-stack, tile scan and point visiting capability					
Objectives Specification	Magnification	Type	NA	Working distance	Coverslip Thickness	Resolution at 550nm (Glycerol mounted)
HCX Plan-APO CS 11506293	10x	IMM	0.4	0.36 mm	-	lateral:550 axial: 1310
HCX Plan-APO 11506513	20x	Air	0.7	0.59 mm	0.17 (#1.5)	lateral:314 axial: 748
HCX Plan-APO 11506178	20x	IMM	0.7	0.26-0.17 mm	-	lateral:314 axial: 748
HCX Plan-APO LAMBDA BLUE 11506253	40x	Oil	1.25	0.1 mm	0.17 (#1.5)	lateral:176 axial: 419
HCX Plan-APO LAMBDA BLUE 11506192	63x	Oil	1.4	0.1 mm	0.17 (#1.5)	lateral:157 axial: 374
Detectors	#	Type		Details		
	4	sPMT		Spectral detectors		
	1	T-PMT		Transmitted light		
Software	LAS AF (Leica Application Suite Advanced Fluorescence) 2.4.1					
Holder	slide / culture dishes					
Applications	Live cell imaging with heated chambers and gas controls					
File Saving	External USB					
Extra features	System: 5100000812 / Dongle: 1-1206073					