

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 FL L 15506242	20x	Air	0.4	6.9 mm	0-2	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			
	3	sPMT	Spectral detectors			
	2	HyD	Hybrid , GaAsP spectral fluorescence detectors			
	1	T-PMT	Transmitted light			
Software	LAS AF (Leica Application Suite Advanced Fluorescence) 2.7.3.9723					
Holder	Slide, chamber slide, microtiter plate, culture dishes					
Applications	Live cell imaging with heated chambers and gas controls					
File Saving	External USB					
Extra features	System: 5100000812 / Dongle: 1-1206073					