

PALM laser micro-dissection microscope

INSTRUMENT SPECIFICATION SHEET



Location	E201, Medical building, Department of Anatomy & Neuroscience University of Melbourne					
Stand	Zeiss Axiovert 200M (SIP:104717)					
Illumination	Transmitted			Fluorescence		
	Hal 100 (Halogen 12V 100W)			ebq100 (HBO100W/2 or W/3 lamp)		
Filters *HE: High efficiency	Name	Excitation	Dichroic	Emission	Labeled as	
	FS43HE	BP 550/25	FT 570	BP 605/70	Texas red	
	FS47	BP 436/20	FT 455	BP 480/40	DAPI	
	FS46HE	BP 500/25	FT 515 HE	BP 535/30	FITC	
	FS18	BP 390-420	FT 425	LP 450 BP605/70	FS18 (Set with FS43reflector)	
Lasers	Type	Wavelength				Maximum output
	DPSS	UltraViolet (355 nm) for microdissection (cutter)				50 kW
	DPSS	InfraRed (1064 nm) for capture (tweezer)				3 W
Stage control	Motorised stage (Robo®) control via software					
Objectives Specification	Magnification	Type	NA	Working distance	Coverslip Thickness	Resolution at 550nm (Dry sample)
Plan-Neofluar 440330	10x	Air	0.3	5.6 mm	0.17 (#1.5)	lateral:733 axial: 2567
Plan-Neofluar 1004072	20x	Air	0.5	2.0 mm	0.17 (#1.5)	lateral:440 axial: 1540
LD Achroplan 440864	40x	Air	0.6	1.8 mm	corr D = 0 - 2	lateral:367 axial: 1283
Plan-Neofluar 440460	63x	Oil	1.25	0.10 mm	0.17 (#1.5)	lateral:176 axial: 616
Plan-Neofluar 1018595	100x	Oil	1.3	0.12 mm	0.17 (#1.5)	lateral:169 axial: 592
Detectors	#	Type	Details			
	1	CCD	Hatachi Hu-D30 CCD camera			
Software	PALM RoboSoftware 3.2					
Holder	Slides only					
Applications	Fixed sample only					
File Saving	USB					
Extra features	PALM system (CS00229C)					