

# PALM laser micro-dissection microscope

## INSTRUMENT SPECIFICATION SHEET



<b>Location</b>	E201, Medical building, Department of Anatomy & Neuroscience University of Melbourne					
<b>Stand</b>	Zeiss Axiovert 200M (SIP:104717)					
<b>Illumination</b>	<b>Transmitted</b>			<b>Fluorescence</b>		
	Hal 100 (Halogen 12V 100W)			ebq100 (HBO100W/2 or W/3 lamp)		
<b>Filters</b>  *HE: High efficiency	<b>Name</b>	<b>Excitation</b>	<b>Dichroic</b>	<b>Emission</b>	<b>Labeled as</b>	
	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	<del>LP 450</del> BP605/70	FS18 (Set with FS43reflector)	
<b>Lasers</b>	<b>Type</b>	<b>Wavelength</b>				<b>Maximum output</b>
	DPSS	UltraViolet (355 nm) for microdissection (cutter)				50 kW
	DPSS	InfraRed (1064 nm) for capture (tweezer)				3 W
<b>Stage control</b>	Motorised stage (Robo®) control via software					
<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 (Dry sample)</b>
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
<b>Detectors</b>	<b>#</b>	<b>Type</b>	<b>Details</b>			
	1	CCD	Hatachi Hu-D30 CCD camera			
<b>Software</b>	PALM RoboSoftware 3.2					
<b>Holder</b>	Slides only					
<b>Applications</b>	Fixed sample only					
<b>File Saving</b>	USB					
<b>Extra features</b>	PALM system (CS00229C)					