

Nikon A1R (Eastern Hill Precinct)

INSTRUMENT SPECIFICATION SHEET



Location	Eastern Hill Precinct, Clinical Sciences Building level 1 Biofab3D laboratory						
Stand	Inverted Eclipse Ti1.0						
Illumination	Transmitted				Fluorescence		
	12V /100W Halogen lamp				Intensilight C-HGFI (130W Metal halide)		
Filters	Name	Excitation	Dichroic	Emission			
	DAPI	340-380	400	435-485	MBE41300		
	FITC	465-495	505	515-555	MBE44720		
	TxRed	540-580	595	600-660	Tex-Red-A –Basic-000		
	Cy3	535/50	565	610/75	Cy3-4040B-000		
Lasers	Type		Wavelength			Maximum output	
	Solid state laser cube		405			100mW	
	Solid state laser Sapphire		488			20mW	
	Solid state laser Sapphire		561			20mW	
	Solid state laser cube		635			25mW	
Stage control	Motorized XY stage						
Objectives Specification	Magnification	Type	NA	Working distance nm	Coverslip Thickness		Resolution at 550nm (Glycerol mounted) nm
4x PL FLUOR MRH00040	4x	Air	0.1	17100	170	-	Lateral: 2200 Axial:5230
10x PL FLUOR MRH00101	10x	Air	0.3	16000	170	DIC N1	Lateral: 733 Axial:1746
20x PL APO MRD70200	20x	Air	0.75	1000	170	DIC N2	Lateral: 293 Axial: 698
40x PL FLUO MRH01401	40x	Oil	1.3	200	170	DIC N2	Lateral:169 Axial: 402
60x PL FLUO MRD07601	60x	WI	1.2	270	150-190 collar	DIC N2	Lateral: 183 Axial: 436
100x PL APO MRD01901	100X	Oil	1.4	130	170	DIC	Lateral:157 Axial:374
*CFI PLAN APO 10XG MRD71120	10X	Water-Glycerol correction collar	0.5	2000	0-170	-	Lateral:440 Axial:1047
Detectors	#	Type		Details			
DU4	4	PMT					

A1-DUS	1	SD	32 channel PMT (400-720nm)
Diascopic detector unit	1	TPMT	Transmitted light detector
Software	NIS Elements AR 4.20		
Holder	Slides and microtiter plates		
Applications	Fixed samples		
File Saving	External drive		
Extra features	Resonant scanner , Perfect focus system, motorized stage		

*This objective is kept out of the turret for access users need to attend a specific training