

ImageXpress (Bio21)

INSTRUMENT SPECIFICATION SHEET



Location	Room 144 (inside 133A), Advanced Microscopy Facility, Bio21 Institute				
Stand	Inverted, Custom Built				
Illumination	Transmitted			Fluorescence	
	Nikon 100 W Pillar Diascopic Illuminator			Lumencor	
Filters	Name	Excitation	Dichroic	Emission	Semrock
	DAPI	BP 377/50	327-404(R), 415-950 (T)	BP 447/60	5060C
	FITC	BP482/35	350-500(R), 513-950 (T)	BP 536/40	3540C
	TX-RED	BP 562/40	350-585(R), 601-950 (T)	BP 624/40	4040C
	Cy3	BP531/40	350-555(R), 569-950 (T)	BP 593/40	4040C
	Cy5	BP 628/40	350-651(R), 669-950 (T)	BP 692/40	4040C
	CFP	BP 438/24	426-450(R), 467-950 (T)	BP 483/32	2432C
	YFP	BP 500/24	350-512(R), 528-950 (T)	BP 542/27	2427B
	TRITC	BP 543/22	350-555(R), 569-950 (T)	BP 593/40	TRITC-B
	GFP	BP472/30	350-488(R), 502-950 (T)	BP 520/35	3035D
Stage control	xyz motorized stage				
Objectives Specification	Magnification	Type	NA	Working distance	Coverslip Thickness
Plan Fluor Ph1 DL MRH20101	10x	Air	0.3	16mm	0.17 mm
Plan Fluor MRH00101	10x	Air	0.3	15.2 mm	1.2mm
S Plan Fluor ELWD MRH08230	20x	Air	0.45	6.9 - 8.2mm	0-2mm (Correction collar)
S Plan Fluor ELWD Ph1 MRH08230	20x	Air	0.45	6.9 - 8.2mm	0-2mm (Correction collar)
S Plan Fluor ELWD MRH08430	40 x	Air	0.6	2.8 – 3.6mm	0-2 mm (Correction collar)
Detectors	#	Type	Details		
	1	PCO	sCMOS 16-bit		
Software	Meta Express & Acuity Express				
Holder	Culture plates (e.g. 384, 96 well), slides, culture dishes				
Applications	Live cell imaging with heated chambers and gas controls Cell incubator is available for temporary storage				
File Saving	External USB				