Technical Information for the Nikon A1R Live Cell Imaging System

Scanner (standard)	galvano scanner x2 with max pixel size 4096 x 4096
(high speed)	Resonant (x axis frequency 7.8kHz) with max pixel size 512 x 512
	Scanning speed: 30 fps (512 x 512 pixels) to 420 fps (512 x32 pixels)
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Microscope:	ECLIPSE Ti-E automated, inverted microscope
Available Objectives:	10x dry, 0.45 N.A., WD 4mm
	20x dry, 0.75 N.A., WD 1mm
	40x oil, 1.3 N.A., WD 0.2mm
	60x oil, 1.4 N.A., WD 0.13mm
	60x water, 1.2 N.A., WD 0.27mm
	100x oil, 1.45 N.A., WD 0.13mm
Laser wavelengths (nm):	402, 487, 561, 638
Dichroics:	405/488, 405/488/561, 405/488/561/640, (BS20/80)
Barrier Filters:	450/50, 482/35 (refl), 485/35 (CFP), 525/50, 595/50, 700/75
Detectors	Standard: 4 PMT, 2 GaAsP detectors and 2 High Sensitivity low noise with spectral sensitivity up to 850nm
	Spectral: 32 Anode PMT Spectral Detector with 2.5nm, 6nm, and 10nm gratings
	Hamamatsu ImagEM CCD Camera, model C9100-13, 16 bit images in
	512x512 format for widefield applications
Piezo Z motor:	High-speed piezo stage-positioning system (Mad City Labs)
	Freeded VV Otaga investige controller Universal insents all de labels
Motorized stage:	Encoded XY Stage, joystick, controller, Universal insert: slide/dish
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Atmospheric control system:	Okolab Bold Line.temperature and CO2 control unit

Manufacturers Website:

http://www.nikon.com/products/instruments/lineup/bioscience/confocal/singlephoton/a1/spec.htm