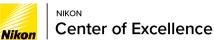
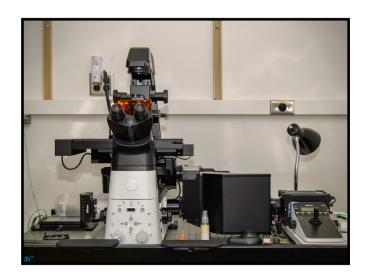
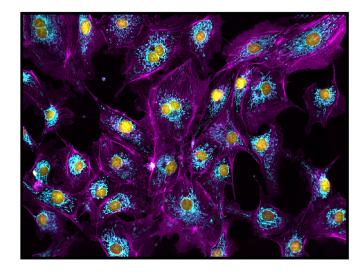
Nikon Crest Spinning-Disk Confocal Microscope









Instrument Description

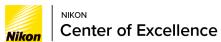
The Nikon "Crest" system is an inverted, spinning-disk confocal microscope that allows for high-throughput, confocal imaging of cell and tissue samples. The Crest Spinning-Disk features a wide selection of laser lines (UV - IR) and is ideal for applications that require the increased resolution and contrast of confocal imaging, with the speed of a widefield microscope. The Crest system is equipped with a stage-top environmental incubator for live cell imaging and a back-illuminated sCMOS camera, making it ideal for imaging living samples (cells, organoids, etc.) with minimal phototoxicity. The Crest features both fluorescence and color cameras, enabling users to image datasets with IHC and fluorescent samples.

Instrument Features

- Confocal imaging (Crest X-Light V2 Spinning-Disk Optics)
- Nikon DS-Fi3 Color and Photometrics Prime 95B sCMOS cameras
- Live cell imaging (humidity, temperature, and CO₂ regulation)
- Laser selection for wide spectral coverage (UV IR wavelengths)
- CFP/YFP filter sets for FRET imaging
- Hardware triggering for rapid multichannel acquisition

Nikon Crest Spinning-Disk Confocal Microscope





Instrument Details	
Available Lasers	405nm / 445nm / 477nm / 520nm / 545nm / 635nm / 730nm
Available Objective Lenses	4x Plan Apo (NA = 0.13; WD = 16.5mm; Phase) 10x Plan Fluor (NA = 0.30; WD = 15.2mm; Phase) 20x Plan Apo (NA = 0.75; WD = 1mm; DIC) 40x Plan Apo (NA = 0.95; WD = 250μm; DIC) 60x Oil Plan Apo (NA = 1.40; WD = 130μm; DIC)
Available Cameras	Photometrics Prime 95B (fluorescence) - Back-illuminated sCMOS sensor with 95% QE - Pixel size = 11µm - Sensor Size = 1608 x 1608 Nikon DS-Fi3 (color) - Color CMOS sensor - Pixel Size = 2.4µm - Sensor Size = 2880 x 2048
Emission Filters	DAPI - 438nm / 24nm
Supported Samples	Slides (1 x 3 and 2 x 3; No. 1.5 coverslips) Glass-bottom Dishes (35mm/60mm; No. 1.5 coverslips) Glass-bottom Multi-well Plates (all well sizes) Glass-bottom Chamber Slides (all well sizes)