

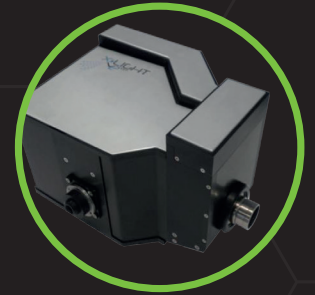
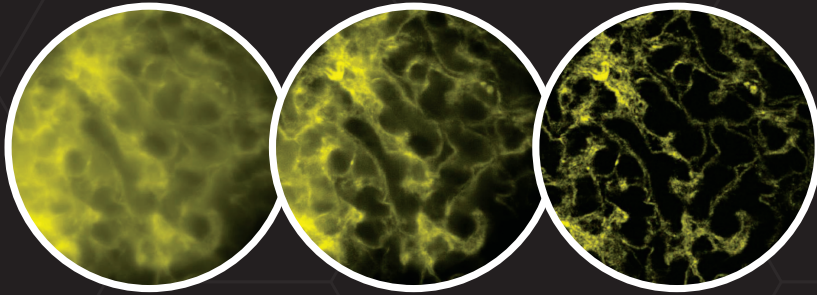


CrEST

SPINNING DISK SYSTEM



13 – 15/12/2016



Affordable High Speed spinning disk confocal system

Key specifications and features

- » Resolution: 100X Plan Apo Lambda 1.45 objective and 70 µm pinhole: 250 nm lateral; 650 nm axial
- » Disk Speed: 15.000 rpm standard, 20.000 rpm version possible
- » Illumination: LED – Spectra X (Lumencor) or CAIRN Laser unit
- » Single or dual pattern option, up to 22 mm FOV (single pattern)
- » Pattern pinhole size: 40 µm (for low NA objectives) and/or 70 µm (for high NA objectives). Custom size and pattern on request
- » Ease of use: NIS Elements driven interface. Easy pattern focusing
- » Objective compatibility: 100X, 60X, 40X
- » Possibility for: VCS hardware resolution enhancement or deconvolution software resolution enhancement with NIS Elements software

Technology

- » CrEST spinning disk uses a proprietary NA dependent pinhole pattern for maximum confocality and higher S/N ratios
- » Single pattern (1 pinhole size, large FOV) or dual pattern (2 pinhole sizes, but smaller FOV)
- » Motorized widefield to confocal switchover while spinning
- » Easy Gimbal mount for quick alignment and best S/N
- » Continuous spiral pattern available for higher throughput
- » Motorized dichroic and emitter filter wheels

CrEST confocal acquisition

- » Triggered multicolor acquisition possible with NIDAQ triggering to the Spectra X illuminator
- » NIDAQ triggered Piezo Z-stacks possible at 1 Z-stack per sec
- » Scan speed freely adjustable by Δt exposure, binning and cropping
- » Enhance resolution with denoising and deconvolution software solution or with the VCS hardware and software solution