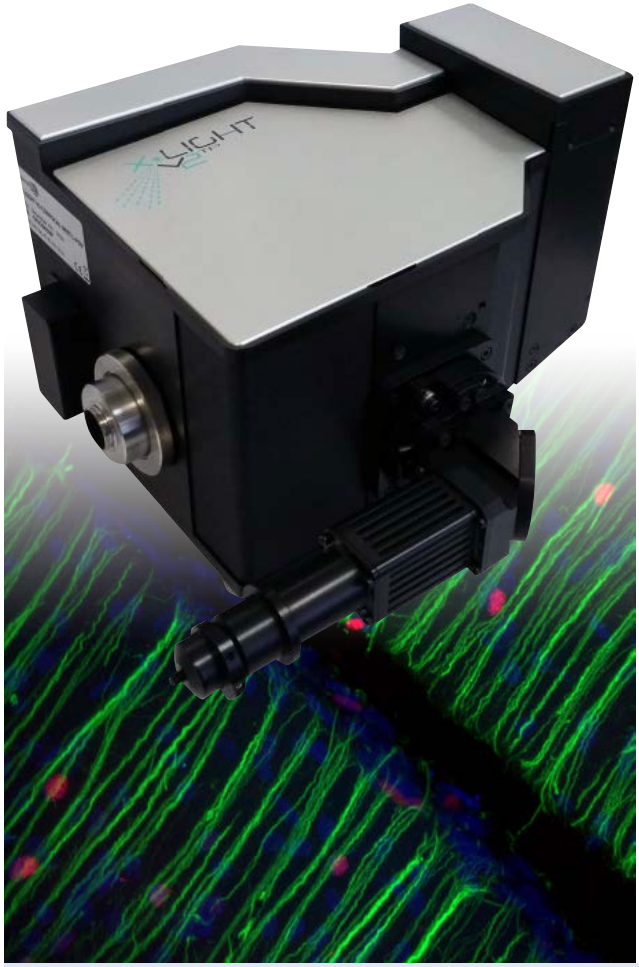
89 NORTH®

Light re-engineered

CREST•OPTICS

X-Light V2

SPINNING DISK CONFOCAL MICROSCOPE SYSTEM



Completely redesigned optical path for maximum throughput with highest possible image quality

Supports both EMCCD and sCMOS cameras

User exchangeable spinning disk box

15,000 RPM standard disk speed for fastest imaging acquisition on the market

Supports laser illumination including the LDI

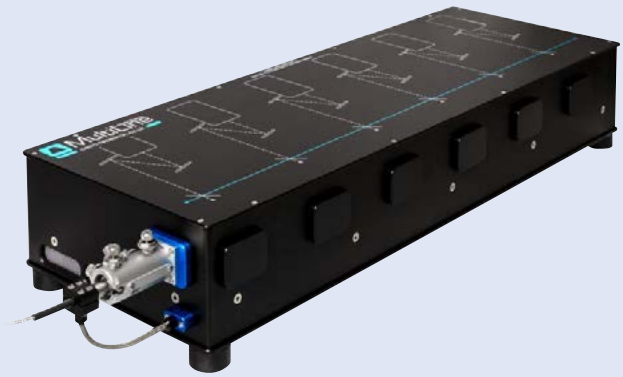
Motorized 8-position emission filter wheel and 5-position dichroic wheel standard

Optional motorized 8-position excitation wheel

Uses standard size dichroics for easy reconfiguration

Motorized bypass mode enables widefield imaging with system installed

Mounts via standard C-mount to any upright or inverted microscope



MultiLine LaserBank

Lasers provide the highest possible signal to noise with the X-Light

Multimode fiber with despeckler enables highest possible throughput

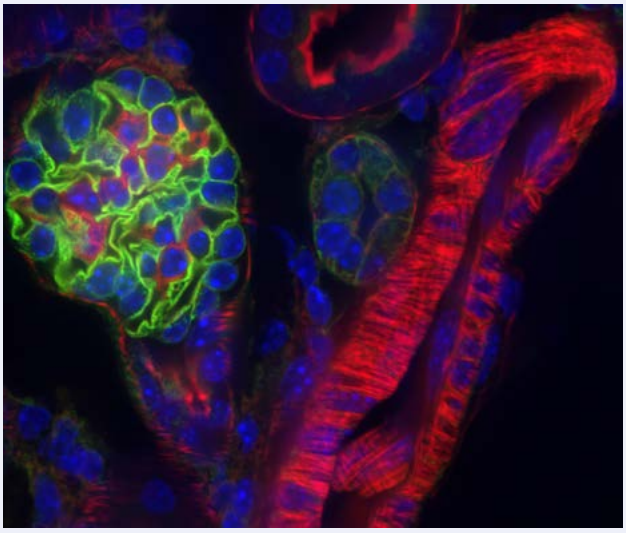
Supports up to 6 high power, solid state lasers

Multiple fiber outputs available to couple to multiple devices such as FRAP and TIRF

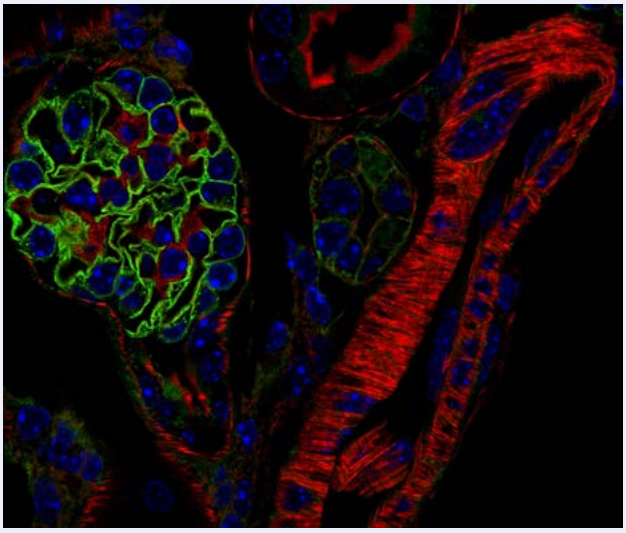
THE VCS MODULE – SUPER RESOLUTION ADD ON

(VIDEO CONFOCAL SUPER RESOLUTION)

V2 confocal



Crest-VCS



TECHNICAL SPECIFICATIONS

X-Light V2
Multiple disk options: Double pinhole pattern (40 micron and 70 micron) – 12 mm x 12 mm FOV Single pinhole pattern (60 micron) for large 22 mm FOV Single pinhole pattern (50 micron, high density) for large 22 mm FOV
Motorized bypass mode
Fast spinning disk 15,000 RPM disk speed
Excitation Gimbal mount for easy alignment on custom microscope setup and for best S/N
Automated 8-position emission filter wheel and 5-position dichroic wheel standard
C-mount thread on emission ports for third party, motorized emission filter wheels
SMA-905 adapter for use with lasers with SMA fibers

VCS
Patented pinhole mask enables high speed data acquisition
Propriatery GPU-based processing algorithms and processing
Motorized bypass mode for widefield/confocal illumination and acquisition
Up to 22 mm field of view
Laser compatible
Piezo motor system for fast structured illumination scan
Motorized control for VCS pattern focusing and color correction
Maximum lateral resolution up to 150 nm measured, limited by pixel size, algorithm and number of sub frames
3D axial resolution: 300 nm

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