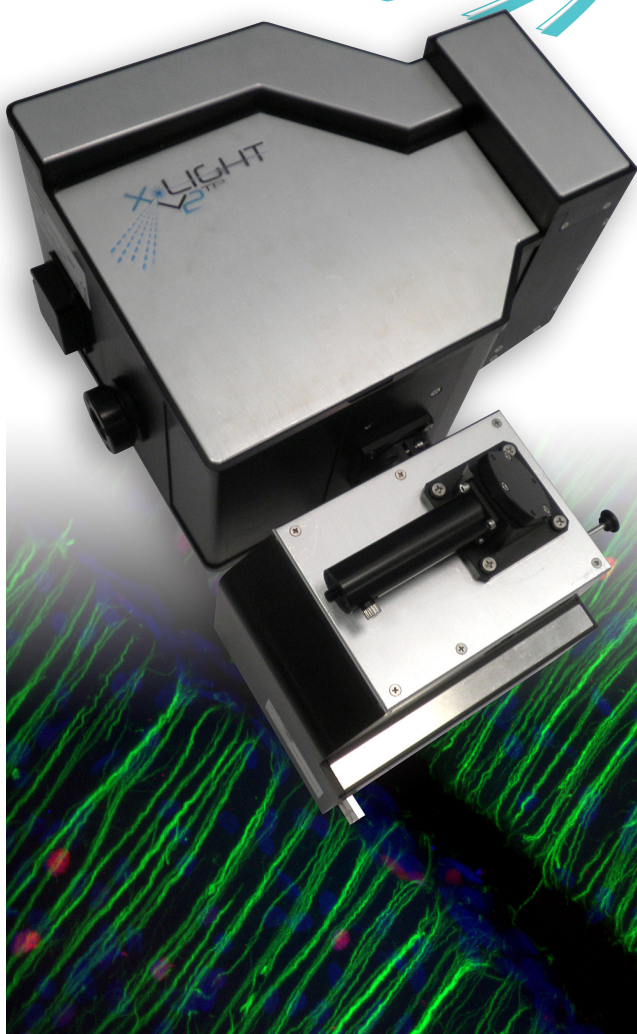




X-Light V2

SPINNING DISK CONFOCAL MICROSCOPE SYSTEM WITH VIDEO CONFOCAL SUPER RESOLUTION



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

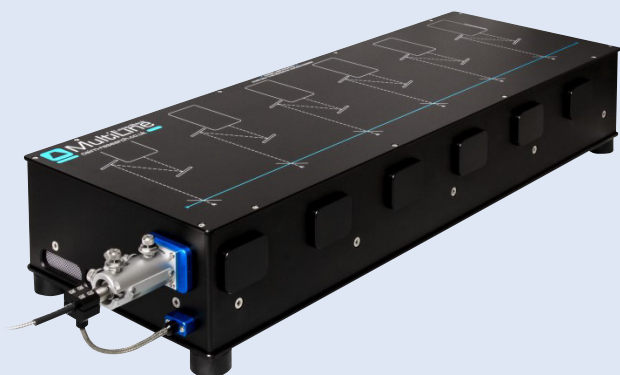
Supports both laser and LED illumination

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

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

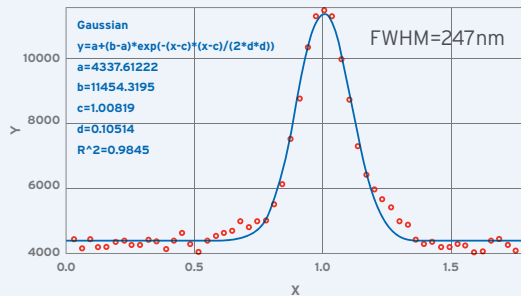
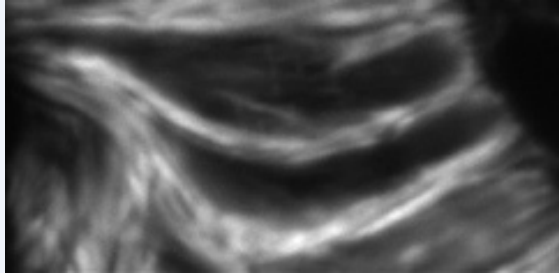
Supports up to 6 high power, solid state lasers

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

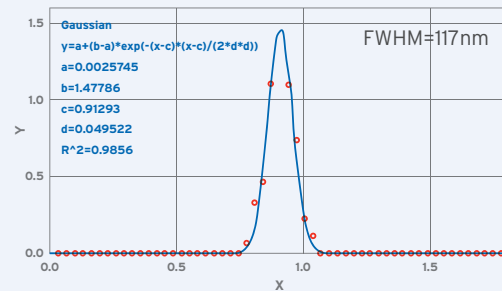
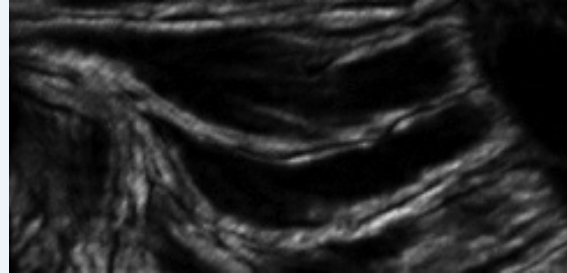
THE VCS MODULE – FAST SUPER RESOLUTION – CUDA CORES

(VIDEO CONFOCAL SUPER RESOLUTION)

Conventional widefield images



Crest-VCS images



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 or LEDs with SMA fibers

VCS

Patented pinhole mask enables high speed data acquisition

Proprietary GPU-based processing algorithms and processing – 5 sec/frame calculation included

Motorized bypass mode for widefield/confocal illumination and acquisition

Up to 22 mm field of view

Laser and LED compatible

Piezo motor system for fast structured illumination scan

Motorized control for VCS pattern focusing and color correction

Maximum lateral resolution up to 115 nm measured, limited by pixel size and depending on pattern, algorithm and number of sub frames

3D axial range: up to 110 micron tested

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 All specifications are subject to change.