

VisiScope Real-Time Confocal System based on X-Light V2

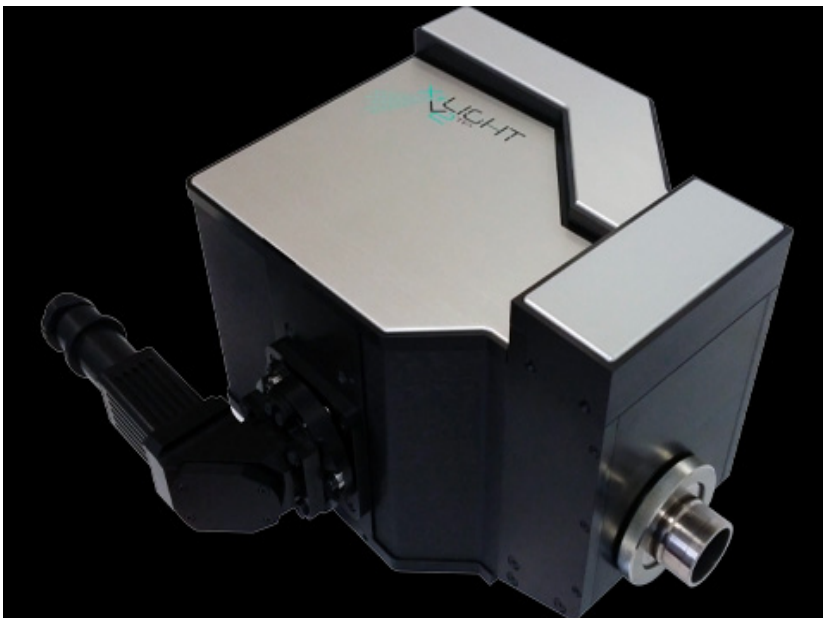
To guarantee each laboratory greater productivity without compromising the data quality, CrestOptics has created the X-Light V2, the most accessible spinning disk solution for fast and gentle confocal imaging.

The X-light V2 is a truly enabling technology where the high-performance is combined with the application flexibility and an universal compatibility with any upright and inverted microscopes with a camera port.

VisiScope Confocal

X-Light V2

UNIVERSAL PLUG-IN
 SPINNING DISK



Full compatibility



Plug-in spinning disk



Custom relay lenses



Wider field of view

Technical Features

Spectral range (confocal/widefield): excitation: 400-750 nm; emission: 400-850 nm

Software controlled bypass mode: widefield to confocal

Fastest spinning disk in the market: 15.000 rpm rotation speed for artefact-free high speed acquisitions

Tailor-made disks: 50 um pinholes with two different pinole spacing. High throughput and custom pattern disks available on demand

Field of view: 25 mm

Exchangeable, synchronized and sealed: the disk box is one of the most versatile features of the new V2. Dust protection and synchronization signals out to the camera make it reliable and faster. Perfect for high speed acquisitions

Lateral Resolution (FWHM): ~230 nm (High NA 1.4) diffraction limited

Axial Resolution (FWHM): ~600 nm (High NA 1.4)

Motorized filter wheels: 8-positions cleanup filter wheel (available on request), 5-positions dichroic filter wheel, 8-positions emission filter wheel

VisiScope Confocal

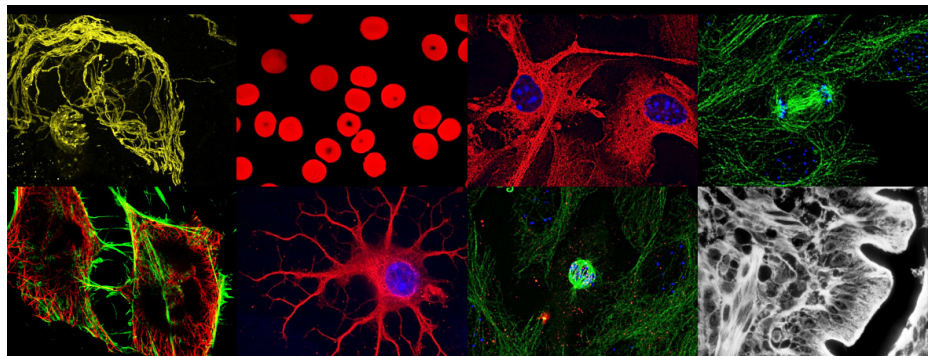
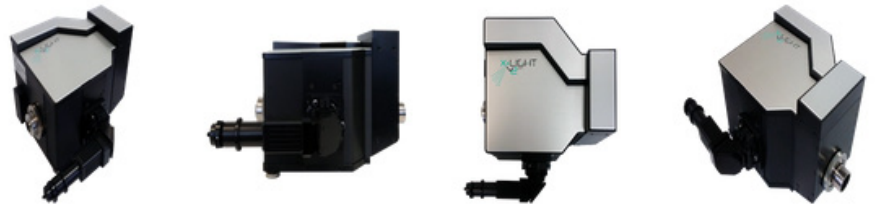
X-Light V2

UNIVERSAL PLUG-IN
SPINNING DISK

VisiScope Real-Time Confocal System

The X-light V2 enables researchers to routinely perform challenging live-imaging experiments for extended periods of time. The highest spinning disk rotation on the market allows to follow ultra-fast cell dynamics with an acquisition speed of over 1000 fps on full FOV.

The multi-beam spinning method offers not only high-speed imaging but significantly reduced photo bleaching and phototoxicity. This gentle illumination combined with advanced optical sectioning makes the X-light V2 the standard tool for 3D live cell imaging.



Flexibility

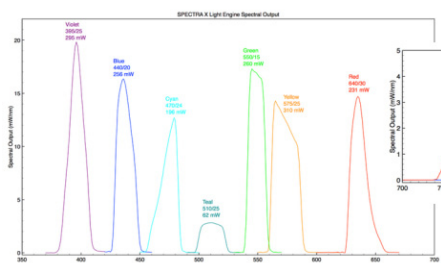
The pinhole disk itself is mounted in a box allowing an easy startup and exchange in a few seconds by plug-and-play. No alignment is required and the system can be used directly after the exchange. In addition, CrestOptics can design your specific custom spiral pinhole pattern on request.

Compatible Illumination

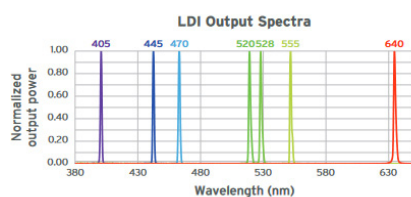
With the perfect match with pinhole size and high light throughput the X-light V2 can be coupled with LED and multimode LASER light source.

Easy Handling

The X-Light V2 can be easily installed and aligned. For example, the detector focal plane will be focused without moving the detector. The excitation Gimbal mount ensures a fast and easy alignment of the optical fiber and guarantees the best signal-to-noise ratio as possible. Additionally, the delivery content includes extraction tools for easy insertion and removal of both dichroic filter and emission filter.



Spectra-X LED Illumination



LDI multimode laser illumination