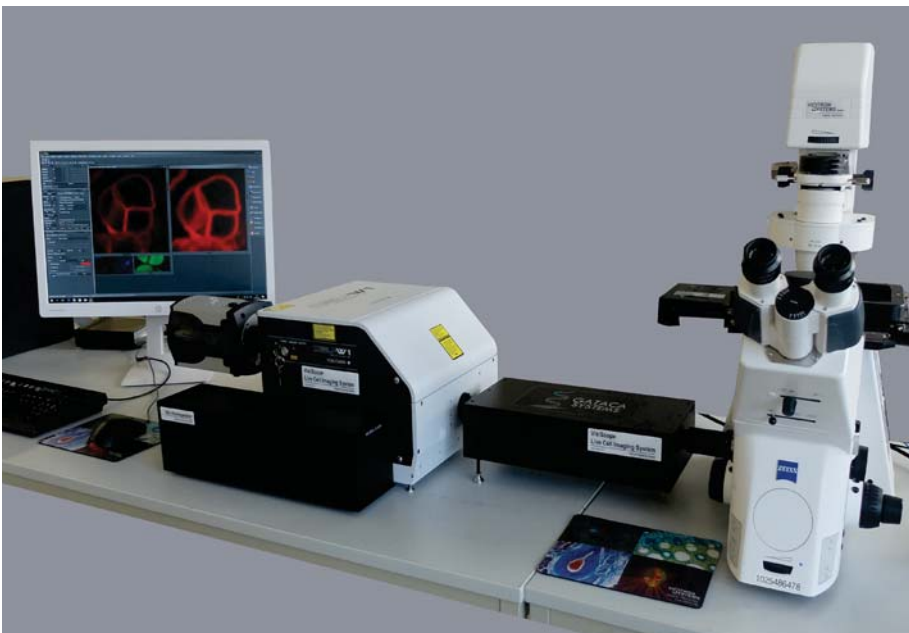


Real-Time Confocal with Live-SR Optics

Affordable Spinning Disk Super Resolution System for all live cell samples and applications

The VisiScope-SR SuperRes system revolutionizes Live Cell Imaging as other Superresolution techniques did for fixed cells. It improves axial and lateral resolution beyond the former limits and uncovers structural peculiarities never seen in real-time before. The system is based on the well-known Spinning Disk Confocal CSU-W1 with wide field of view equipped with the Gataca LIVE-SR optics.

VisiScope- Confocal with Live-SR SuperRes



VisiScope Confocal-SR with Zeiss Axio-Observer, CSU-W1, VS-Homogenizer and Gataca Live-SR

Double resolution of conventional microscope

The system's superresolution and real-time imaging capabilities with up to 200fps (1000fps with CSU-X1) are perfectly supported by the VisiView real-time 3D-Image visualization and enhanced by real-time 2D-Deconvolution algorithms. The LIVE-SR is boosting the resolution power of the CSU-W1 down to 105nm.

SUPER - RESOLUTION

Resolve confocal images up to about 105nm XY resolution

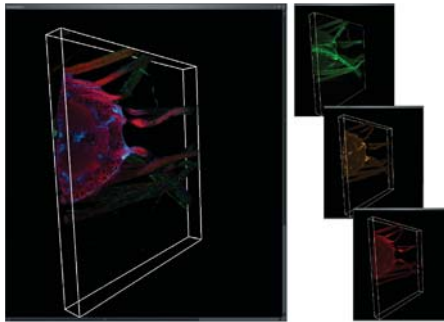
MULTI - Mode IMAGING

Easily motorized switching between Widefield, Confocal and SuperRes

VisiScope- Confocal with Live-SR SuperRes

Live-SR Optics

The Gataca Live-SR optics is based on optically demodulated structured illumination technique with online processing. Combined with spinning confocal it enables Super Resolution to be achieved at high speed and low photo-toxicity, making it the ideal solution for live high resolution cell imaging. Moreover, because of the nature of the light modulation, no line or pattern artifact is created.

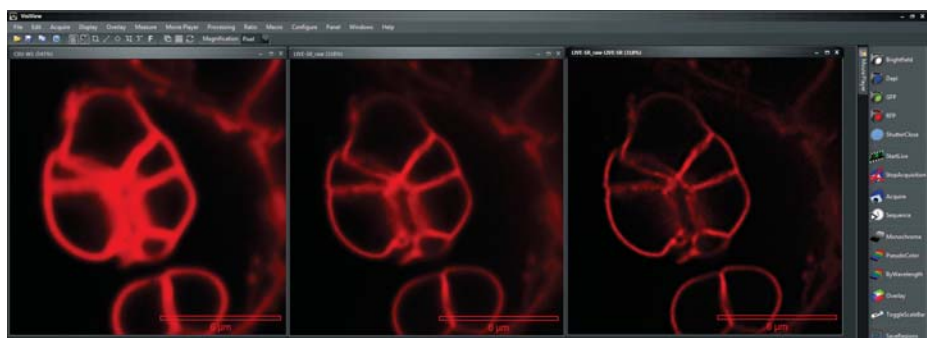


Highlights:

- » Maximum resolution up to 105nm
- » Acquisition speed up to 200 fps
- » Live / Focus mode for real time
- » Motorized bypass mode
- » No specific fluorophores required
- » Low phototoxicity for live imaging
- » Up to 8 channels
- » Simultaneous multicolor imaging
- » Compatible with any existing research microscope
- » Compatible with SCMOS, CCD, EMCCD

VisiView Realtime 2D / 3D Deconvolution

3D reconstructed images and 2D deconvolved images are displayed in real-time without visual latency and do not slow down the acquisition frame rate



.CSU-W1 raw data CSU-W1 LiveSR raw data CSU-W1 LiveSR algorithm

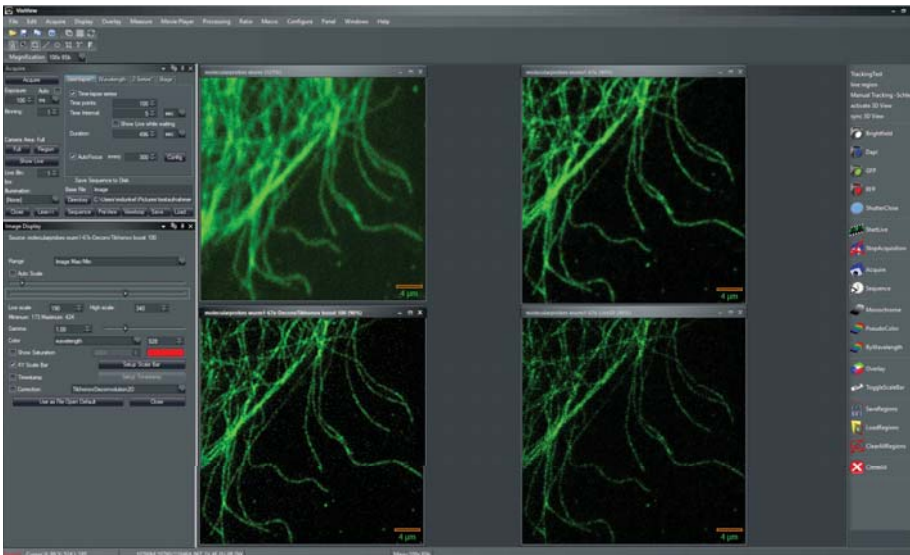
Have a look Inside of Your Samples in Super Resolution with VisiView Realtime 5D Viewer

The VisiView 5D Viewer offers a glimpse into 3D data even before z-stack acquisition is completed. Complete 5D dataset, including stitched data, can be visualized post-acquisition.

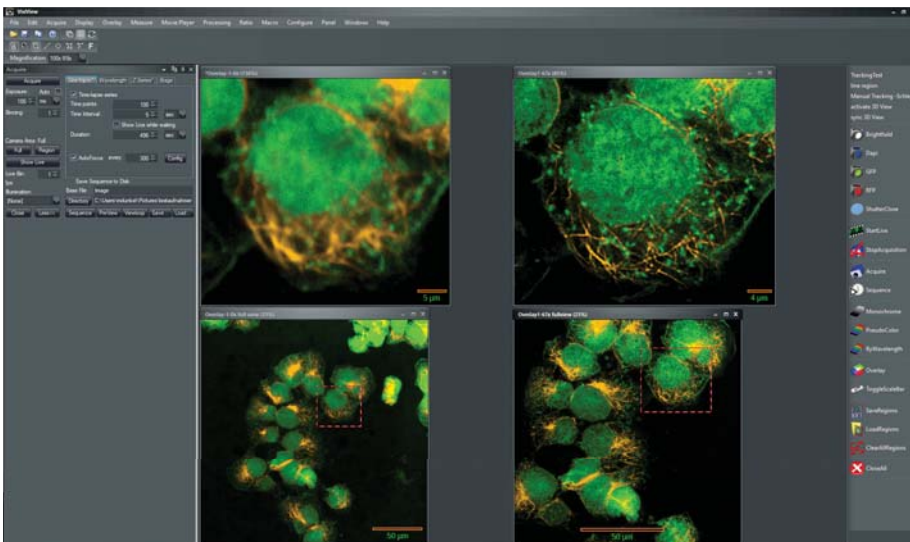
Detailed Image Information with 3D-Dimensional Structures

Scientist can clearly observe small structures individually with 3D and time-lapse information.

VisiScope- Confocal with Live-SR SuperRes



Left image CSU-W1 raw data, right image CSU-W1 with Live-SR and 2D deconvolution



Upper left image CSU-W1 raw data, upper right image CSU-W1 with Live-SR raw data. Lower left Live SR and VV-2D deconvolution; lower right with and Live-SR deconvolution