

VisiView 4.1: 3D Deconvolution

VisiView 4.1 adds a new feature to Visitron Systems light microscope software suite:

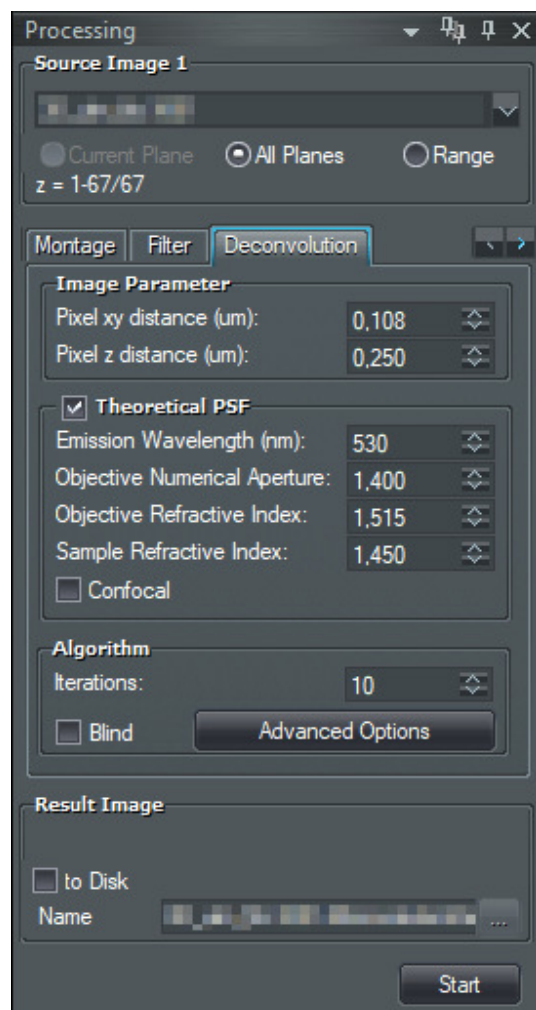
3D Deconvolution – powered by Microvolution

Results of optical imaging are influenced by optical limitations accounting for out-of-focus blur and noise. VisiView 3D Deconvolution reduces out-of-focus blur and increases signal-to-noise ratio of images.

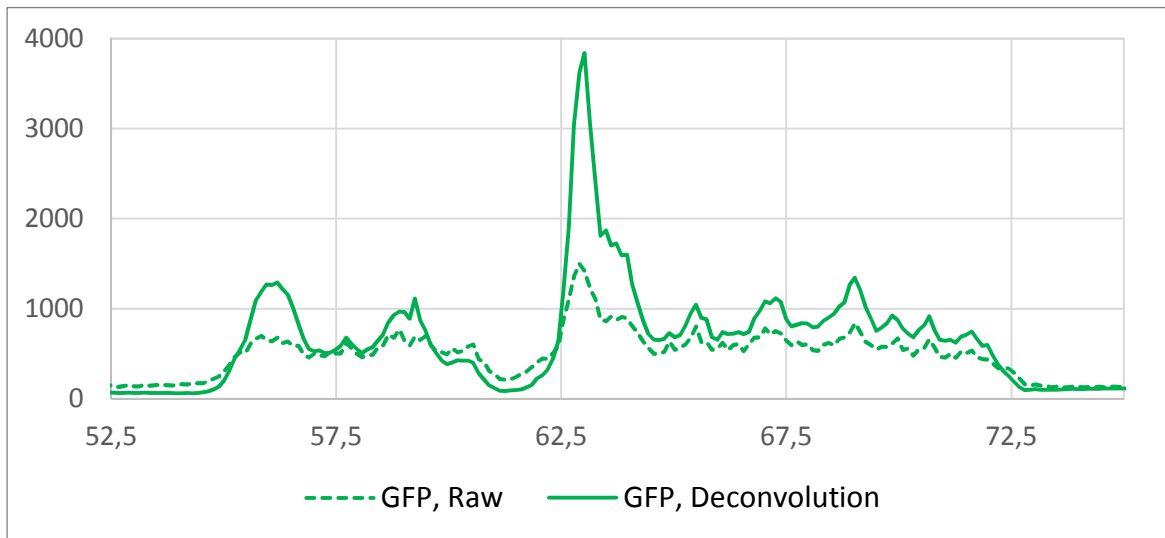
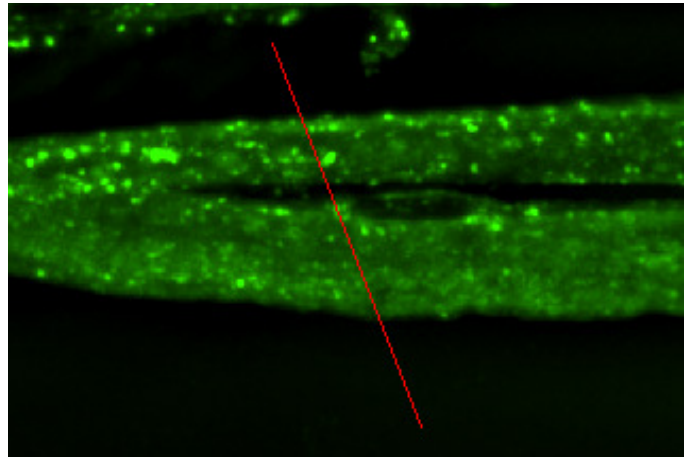
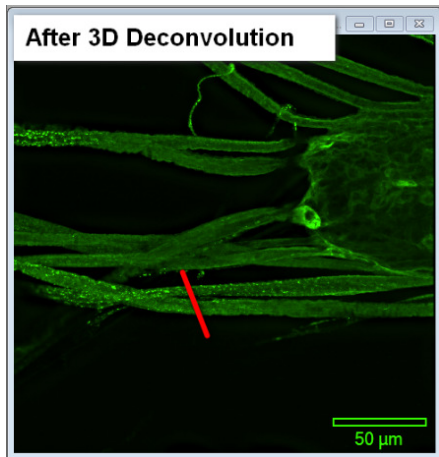
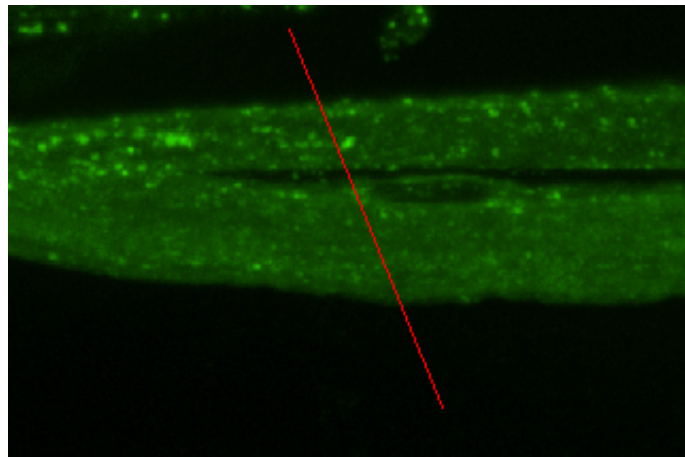
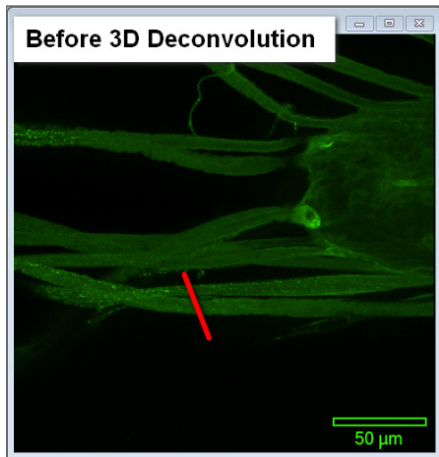
VisiView 4.1 offers nearly real-time 3D deconvolution based on Microvolution. Full integration of deconvolution ensures easy configuration by preset parameters based on image metadata.

VisiView Deconvolution offers blind and non-blind algorithm. You can use either measured or theoretical point-spread-functions (PSF).

VisiView 3D Deconvolution requires 64-bit Windows operating system (Windows 7 or later), NVIDIA graphics card (GeForce, Quadro, or Tesla) with CUDA capabilities 2.0 or greater, and up-to-date NVIDIA drivers (version 369, or later). Graphics card memory and RAM requirements depend on size of processed images.



Please also see our VisiView 3D Upgrade Bundle including 3D Deconvolution, 5D Viewer, and VisiView 4.1 Upgrade.



Visitron VisiScope 4Element with Yokogawa CSU W1 dataset (2060x2048x41) deconvolved in 22 s using NVIDIA Quadro K2200.