VISITRON SYSTEMS GmbH
Microscopy and Imaging

Intelligent BioMed-Solutions

from Visitron Systems GmbH

VisiView 5.0 release

Newsletter 11-2020

Following new features:

- OME 64bit TIFF Format
- Acquisition Editor: easily create your own complex experiment sequence
- Comfortable Image preview shows the acquired images as thumbnail stripe

Features and Benefits:

- TTL synchronization module for fast experiment control e.g. device streaming
- camera / illumination device synchronization
- 16 TTL output lines
- 4 analog out channels
- 4 camera inputs connector board (exposure signal for stream mode)

Dear VisiView customer,

please find enclosed the information about the new VisiView 5.0 features. It will be release on the first of December.

Beside of the new features, we have also done some camera device upgrades and improvements. Additionally, we implemented the ViRTEx experiment control unit for nearly all camera models for time accuracy synchronization and triggering.

For VisiView 5.0 upgrade price information or how to get the download link, please contact your responsilble Visitron sales engineer or contact our international sales partner.

If you have any further questions, please let us know.

Best Regards

Helmut Wurm
Managing Director

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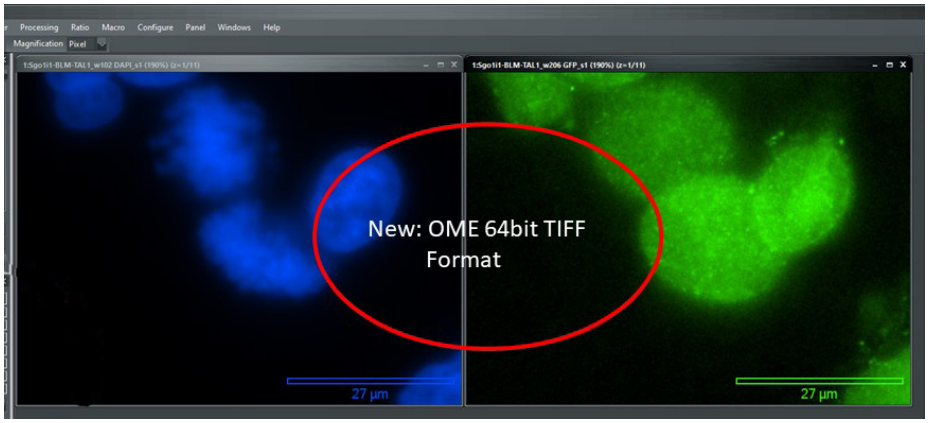
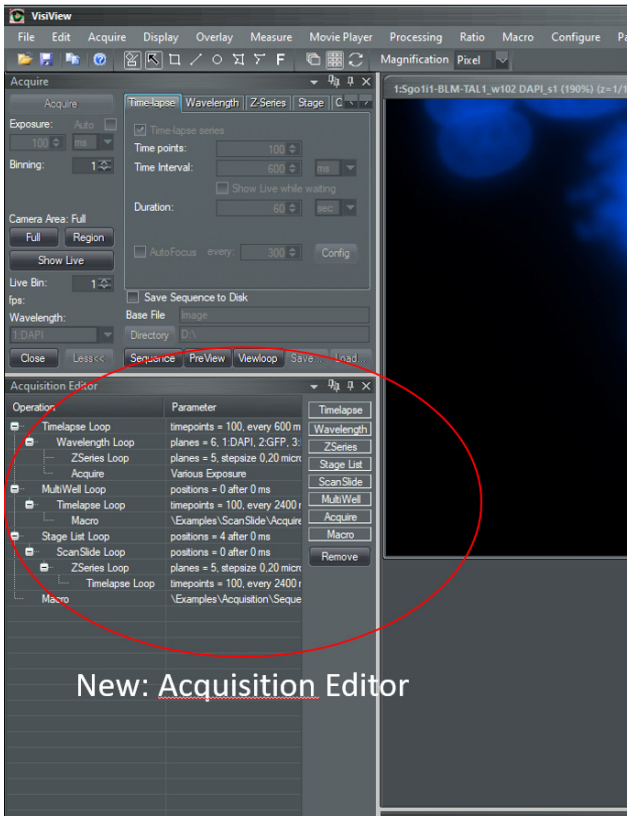
OME 64bit TIFF Format

The OME-TIFF format was created to maximize the respective strenghts of OME-XML and TIFF. It takes advantage of the metadata defined in OME-XML while retaining the pixel in multi-page format for compatibility with many more applications.



Acquisition Editor

To easily create your own arbitrary experiment sequence



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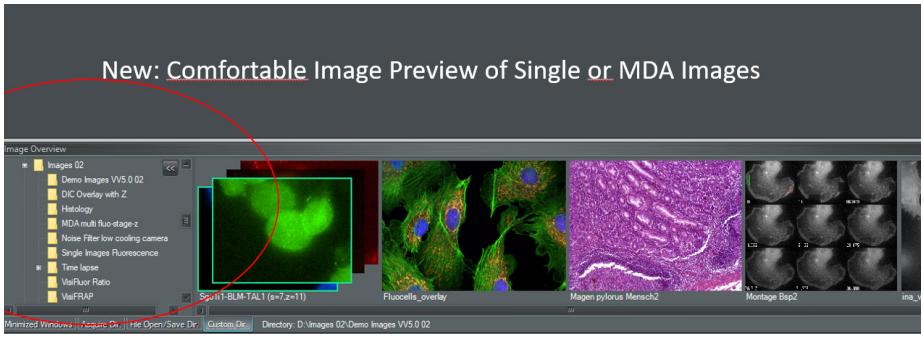


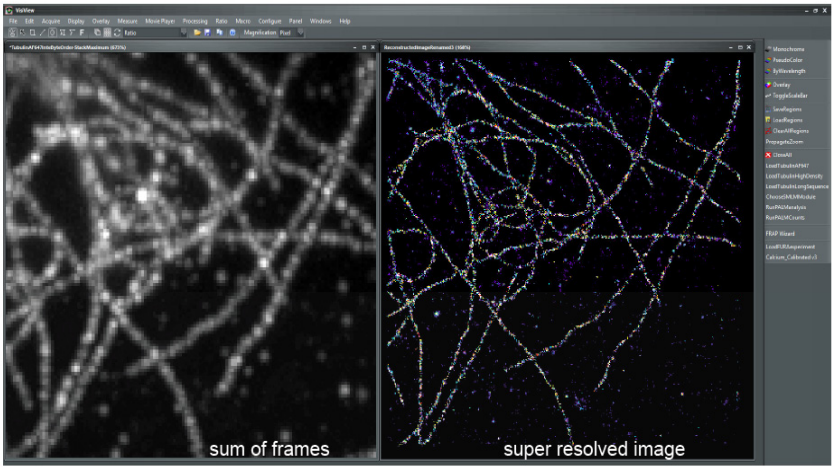
Comfortable Image overview

Shows you your acquired images as thumbnail stripe

New: VisiView Analysis Module for super resolution PALM/STORM TIRF application with runtime laser control

What is Single Molecule Localisation Microscopy?

Single Molecule Localisation Microscopy is the generic term for a series of techniques that use the same principle to resolve structures beyond the diffraction limit of light. The principle relies on sparsely and iteratively activating single molecules in densely labelled samples to localize single point emitters. The fitted positions of these emitters are then used to reconstruct a super-resolved image. Depending on the technique, single molecule blinking is achieved either by photo-switching and -activating of fluorescent proteins (PALM) or organic dyes (STORM) or by transiently hybridizing dye labelled DNA strands to complementary strands coupled to the protein of interest via antibodies (DNA-PAINT).



VisiView STORM option e.g. with QUICKPALM reconstruction of AF647 labelled tubulin