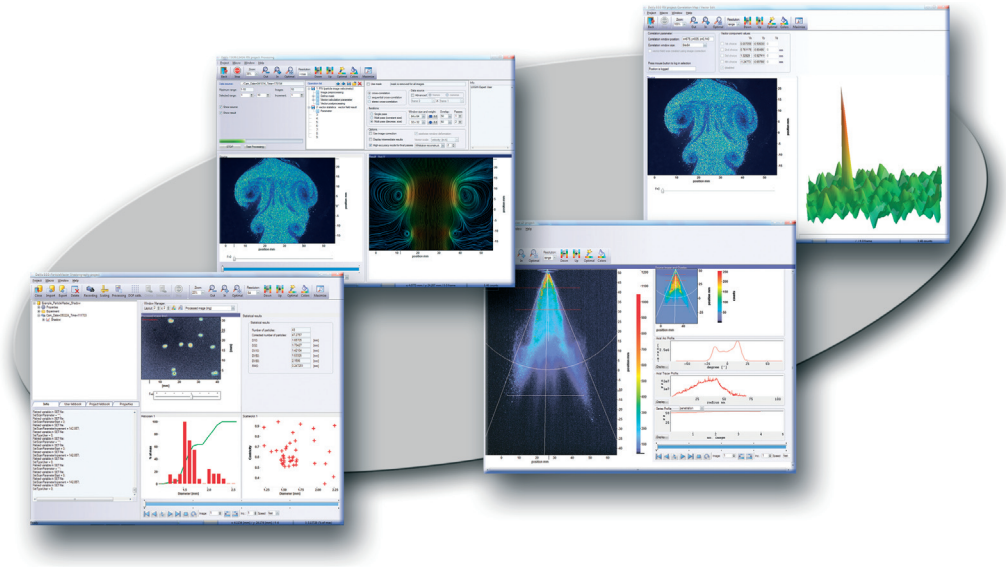
LaVision

We count on Photons

DaVis 8

LaVision follows its philosophy of Intelligent Laser Imaging with the new DaVis 8 software platform. DaVis 8 is designed for Windows 7 (32/64 Bit), supports a variety of new hardware components, such as the latest technology sCMOS camera, and impresses by a significant processing speed boost.



LaVision's intelligent imaging software

Flexible and scalable hardware support

DaVis 8 provides very flexible hardware configurations through a large number of available components and combinations. It offers several upgrade paths from compact single-purpose tools to multi-parameter imaging solutions to grow with your high end applications. This versatile concept keeps investment risks under control while offering the best solution for your current and future needs.

64 Bit RAM access

DaVis 8 provides so far unsurpassed amount of RAM running under the 64 Bit version of Windows 7. Limitations known from conventional 32 Bit operating systems, like restricted RAM size resulting in slow disk swapping, are replaced by application performance never been available before. DaVis 8 can use the larger RAM to expand the full speed recording time of all cameras. For example, LaVision's new 16 Megapixel PIV camera (Imager pro LX 16M) generates highly resolved images with demanding RAM requirements for optimum computation speed of volume vector data from Tomographic PIV.

The fastest DaVis ever

DaVis 8 includes several technologies to boost the processing speed by amazing rates. Conventional image processing operations like image filters as well as LaVision's highly sophisticated PIV algorithms reveal their results within a refreshing short computation time. DaVis 8 balances the CPU load to use all physical cores to a maximum.
LaVision's PIV software module is well known to reveal optimum accuracy even under challenging measurement conditions. DaVis 8 delivers the same high-level quality at a tremendously faster processing speed by using Graphics Processing Units (GPU) hardware acceleration.

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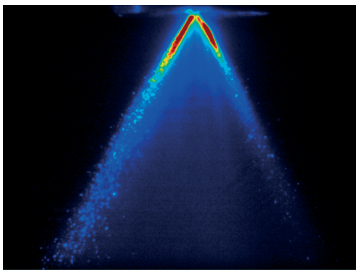
New hardware

DaVis 8 supports a bundle of new hardware components. LaVision's Imager sCMOS is a camera based on a novel technology with an amazing sensitivity of the 5.5 Megapixel sensor for large scale PIV applications at high frame rates. Other new cameras, lowspeed and highspeed, expands the portfolio of available solutions.

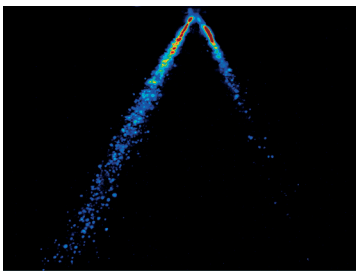
DaVis 8 grows with your needs

Application oriented software packages are available for daily laboratory and quality control tasks as well as for highly sophisticated research experiments. All application packages work with the same DaVis 8 platform and provide a wide range of multi-parameter imaging tools. DaVis 8 integrates new application packages like

- **FlowMaster Tomographic PIV** – fluid dynamics in 3D
- **Adaptive PIV** – automatic optimization of PIV recording and processing parameters
- **StrainMaster, Digital Volume Correlation** – non destructive material testing based on Digital Image Correlation (DIC) or 3D X-ray tomography
- **FluidMaster** liquid LIF – new functionality for characterization of mixing processes in liquids and micro-channels
- **SprayMaster SLIPI** – a revolutionary imaging approach for a deeper insight into dense sprays



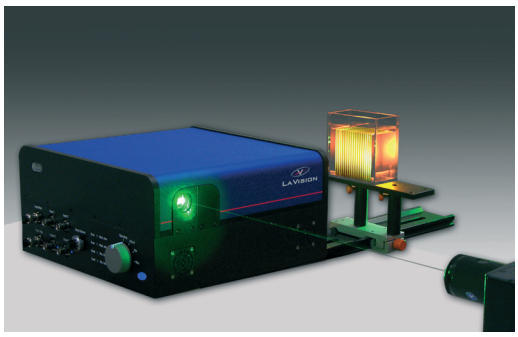
Conventional spray image



SLIPI corrected spray image

DaVis 8 opens the 3rd and 4th dimension

3D measurements are widely supported in DaVis 8 . Ranging from fluid dynamics applications (Tomographic PIV) over volume material testing (DVC) to 3D scanning in mixing processes (FluidMaster), DaVis 8 provides multiparameter imaging in all 3 dimensions. Highspeed recording at several 1000 fps for time correlated imaging opens up the 4th dimension and reveals a true fully time and space resolved insight into highly dynamic fluids and processes.



Laser Sheet Scanner for 3D scanning LIF

Jun-10

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