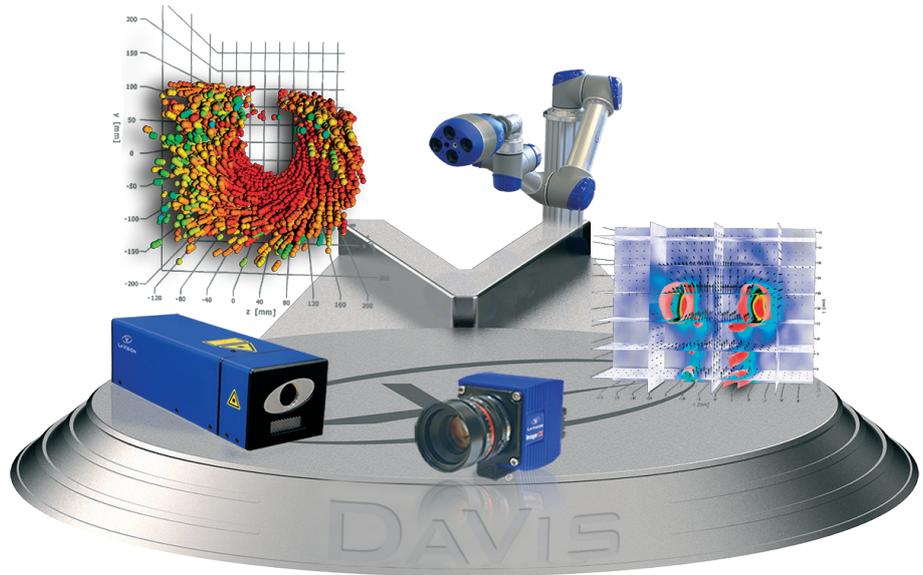


DaVis 11

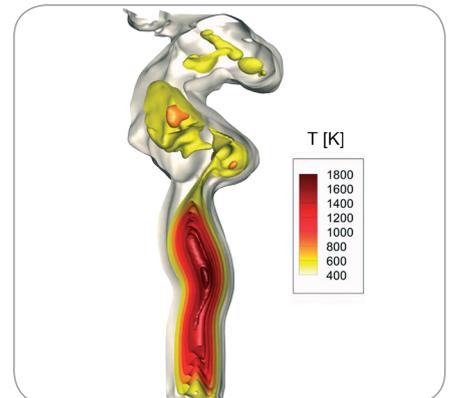
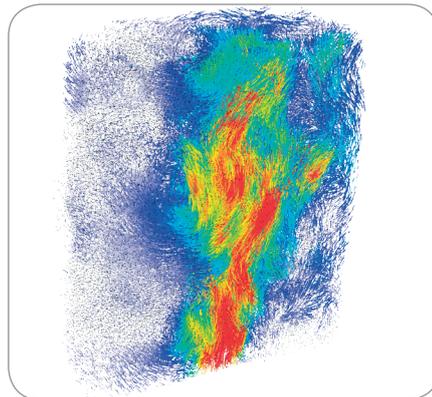
Software for intelligent
imaging

LaVision's new **DaVis 11** version is a modern image acquisition and processing software providing a platform for a wide application range from fundamental scientific research to 24/7 industrial applications. Following our successful strategy of a multi-parameter imaging platform, it offers flexible and scalable hardware support, which allows best seamless user experience.



Leading-edge 4D imaging

DaVis 11 includes LaVision's most innovative algorithms for 4D measurements of flow fields, 3D surfaces, sprays, mixing and combustion processes. High-speed cameras add the time domain as the 4th dimension to the 3 dimensions of volumetric imaging. As an integrated solution **DaVis 11** guarantees full control of all hardware components with calibration, recording, processing, 2D/3D/Tomographic/Shake-the-Box track data display and export in one software.



*Simultaneous tracking of ~190.000 helium-filled soap bubbles with Shake-the-Box in a volume of 560 l.
Data courtesy: DLR Göttingen (left) and isosurfaces of reconstructed 3D temperature field(right)*

Contemporary imaging
functions

DaVis 11 disposes im- and export functions of common image formats (BMP, PNG, JPG, TIF), movies and data files (Matlab), as well as an integrated mp4 movie generator and a side-by-side synchronization of movies from multiple data sets.

LaVisionUK Ltd

2 Minton Place / Victoria Road
Bicester, Oxon / OX26 6QB / United Kingdom
E-Mail: sales@lavisoin.com / www.lavisoinuk.com
Phone: +44-(0)-870-997-6532 / Fax: +44-(0)-870-762-6252

LaVision GmbH

Anna-Vandenhoeck-Ring 19
D-37081 Göttingen / Germany
E-Mail: info@lavisoin.com / www.lavisoin.com
Tel. +49-(0)551-9004-0 / Fax +49-(0)551-9004-100

LaVision Inc.

211 W. Michigan Ave. / Suite 100
Ypsilanti, MI 48197 / USA
E-mail: sales@lavisoininc.com / www.lavisoininc.com
Phone: (734) 485 - 0913 / Fax: (240) 465 - 4306

Gain further insights into your data



A new free library for accessing **DaVis** data within the Python® programming language is LaVision's **lvreader** package. Using the particle write functions, it is possible to import particle data from other sources and use **DaVis'** advanced processing operations, such as binning or fine-scale reconstruction, to gain further insights into your data. Whether you are interested in whole particle distributions or single particle tracks from your experimental data, **lvreader** lets you directly access **DaVis** set files without the need of a further export step.

Speed up your processing

The **DaVis Distributed Processing (DDP)** incorporates additional computers directly into the processing capabilities of DaVis. Once the processing environment is configured, adding a new processing job is as simple as starting just a new processing in DaVis. LaVision provides a „DaVis Worker“ implementation, which runs as a service on Windows and Linux computers. The so-called „Master DaVis“ on a Windows PC is used to setup a processing list and sends this list via network to the workers for processing.

AI-assisted calibration module

Since each manufactured calibration plate has its unique ID, DaVis can identify the corresponding validated calibration plate file and will correct the camera calibration from all quantified systematic errors. The identification of the calibration plate used in the calibration process is steered by the calibration module with interactive AI-assisted live calibration plate recognition.

Fully integrated hardware control



Scientific and industrial applications

DaVis 11 offers flexible and scalable hardware support. LaVision works in close cooperation with several camera and laser manufacturers worldwide to be able to always offer our customers the latest imaging technology. The high degree of integration offers an intuitive and seamless operation of the complete system. The complexity of the system adapts to the measurement task: from a compact 2D imaging tool up to a complex multi-parameter and multi-camera laser imaging system, **DaVis 11** provides field-proven working solutions.

Innovations in **DaVis 11** are not only driven by demanding scientific and research applications, but from industrial applications as well. Based on the proven modular concept, our innovative measurement technology has been customized for industrial applications for quality control and testing, successfully in operation at sites around the world. Customer-defined workflow interfaces address the unique requirements in industrial environments for ease of use, reproducibility, reliability and traceability.



Customer friendly update and support policy

LaVision believes that our customers should benefit from our constant innovation. We believe that our customer's success is also our success. Therefore, **DaVis 11** continues our long-standing philosophy of no cost updates and support. This customer friendly policy ensures that our customers have access to uncompromising support for the lifetime of the system.

Data provided by LaVision are believed to be true. However, no responsibility is assumed for possible inaccuracies or omissions. All data are subject to change without notice.

Jan-23

LaVisionUK Ltd

2 Minton Place / Victoria Road
Bicester, Oxon / OX26 6QB / United Kingdom
E-Mail: sales@lavision.com / www.lavisionuk.com
Phone: +44-(0)-870-997-6532 / Fax: +44-(0)-870-762-6252

LaVision GmbH

Anna-Vandenhoeck-Ring 19
D-37081 Göttingen / Germany
E-Mail: info@lavision.com / www.lavision.com
Tel. +49-(0)551-9004-0 / Fax +49-(0)551-9004-100

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Ypsilanti, MI 48197 / USA
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