



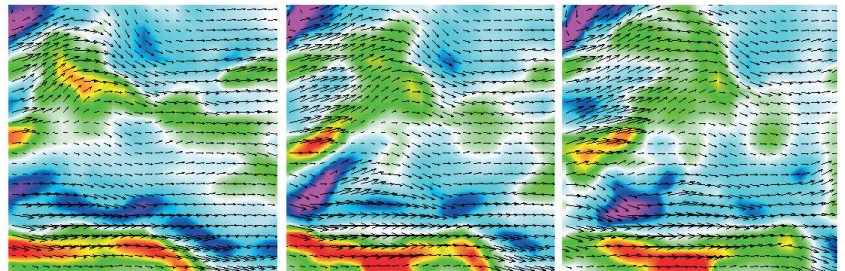
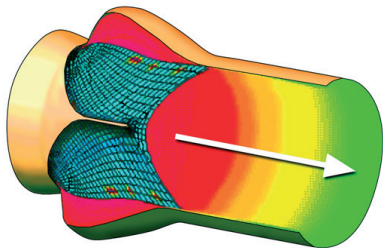
LA VISION

WE COUNT ON PHOTONS

FlowMaster HS

combining spatial and temporal resolution for PIV

temporally resolved multi-point measurements



Building on our expert Particle Image Velocimetry knowledge, LaVision introduces complete spatially and temporally resolved velocity measurements with their High-Speed PIV systems. The LaVision **FlowMaster HS** system is a true kilohertz multi-point measurement tool allowing the user to identify and quantitatively analyse previously unseen fluid dynamic phenomena. Using our innovative DaVis software, the user has complete control over acquisition and management of their experimental data, with the ability to calculate comprehensive and quantitative turbulent statistics.

FlowMaster HS

- ▶ complete control of image capture, synchronisation and timing
- ▶ feature tracking of temporally evolving events in the flow field
- ▶ intuitive experimental project structure for efficient data management
- ▶ unbeaten sub-pixel correlation accuracy via window deformation and subpixel image reconstruction
- ▶ range of import and export features including Matlab and Tecplot

state of the art high-speed PIV

- ▶ Powerful PC and DaVis software provide complete control over the system components
- ▶ 12 bit CMOS camera with up to 36 GB of dedicated RAM
- ▶ up to 7.5 kHz full spatial resolution (1k x 1k) and 500 kHz at reduced resolution
- ▶ high spatial resolution cameras with 4 Mpixel size
- ▶ trade spatial resolution for increased temporal resolution and number of images
- ▶ shortest inter-frame time for application in high velocity flow fields

Dual cavity Nd:YLF PIV Laser

- ▶ up to 50 mJ per pulse allowing large Fields of View to be illuminated
- ▶ up to 10 kHz per laser for excellent temporal resolution
- ▶ purpose built PIV laser offers flexible choice of inter-frame time

LaVision offer a range of other cameras for the FlowMaster HS system, including intensified units for low light applications. A range of lasers is also available to suit the user-specific needs.

customer focused

LaVision has more than 20 years of experience in adapting and applying our PIV measurement systems to a huge range and scale of applications – from micro-scale biomedical environments to the flow around ship hulls. We are constantly innovating through active collaborations and always responsive to customer feedback. Our worldwide team of technical support personnel are able to provide rapid answers to problems, and are always available to answer your questions. Contact us today to discuss your High-Speed PIV requirements.

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.

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